Altech Corp.®

Serving the Automation & Control Industry since 1984

















57.9

DOLD & DIN Enclosures

60.4



CONTENTS



KS4400



The KS4400 series is simple, modular and flexible yet highly functional. The half shell design is cost effective and provides exceptional space utilization. Three levels of terminals with fixed and pluggable PCB terminal options allow for high density connections. A large front face area provides ample space for operator, communication and visual display components.

• DIN Rail Mount

- Compact, Snap-together
- Fixed and Pluggable Terminals

• High Density Terminal Configuration

• Standard Color: Black Housing with Gray Front Plate

4-11



K04700

Our most popular enclosures, the KO4700 series offer a wide range of sizes with single and double level terminal configurations. They can be used for a wide range of applications. Complete with 8 to 132 terminals, select from pressure plate or box clamp terminations with fixed or pluggable terminal-to-board connections. Several cover designs add to the versatility of this series.

- DIN Rail or Panel Mount
- Fixed and Pluggable Designs
- Snap-On Keyed Covers
- Integral PC Board Guides
- Standard Color: Black Housing Shell with Tan Cover

• Modular Terminal Enclosures, pages 32-39

12-39



K70

K70 series enclosures include a range of small to medium size DIN enclosures, complete with 8 to 32 terminals. They offer cost effective solutions for many applications. The K70s are supplied with integral pressure plate terminals for reliable connections. Terminal-to-board connections include fixed and pluggable solutions.

- DIN Rail or Panel Mount
- Integral PC Board Guides
- Snap-On Covers

- Fixed and Pluggable Designs
- . Standard Color: Light Gray

40-47



KU4000

The versatile KU4000 series enclosures feature generous internal space for printed circuit boards and electronic components. High density, double level snap-in terminals are of the pressure plate or spring cage design for gastight, vibration proof connections. Straight or angled solder pins offer flexibility in board layout. All versions have machine solderable terminals. KU4000 housings fit into standard 45mm (1.77 in.) high international style cutouts.

- DIN Rail or Panel Mount
- Integral PC Board Guides
- Front Fits 45mm (1.77 in.) Cutouts
- Terminal Cover Plugs Available
- Standard Color: Light Gray

48-73



KU4100

The versatile KU4100 series features a compact design with different terminal configuration options. They are available in six widths with double level terminal locations. Terminal configuration options include blank enclosures with no terminal openings, fixed PCB terminals and pluggable PCB terminals.

- DIN Rail Mount
- Front Fits 45mm (1.77 in.) Cutouts
- Integral PC Board Guides
- Fixed and Pluggable Terminals
- Standard Color: Light Gray Cover with Black Base

74-84



K04300

The KO4300 series offers new design styling and cost effectiveness in a high density compact package. The double level terminals offer space savings while providing gas-tight, vibration proof connections. The enclosures are available with 16 to 64 terminals in 22.5 to 90 mm widths.

- DIN Rail Mount
- Machine Solderable Pins
- Integral PC Board Guides
- Compact High Density Design
- Standard Color: Light Gray

85-89



K04070

Compact, cost effective enclosures are ideal for I/O circuits, relays, timers and other small control devices. The KO4070 series enclosures are available in three widths with single and multi-level terminals. They are supplied complete with 4 to 16 box clamp type terminals that are machine solderable.

- DIN Rail Mount
- Machine Solderable Terminals
- Compact, Snap-Together
- Integral PC Board Guides
- Standard Color: Light Gray

90-95

In-Rail Busbar System	.96
Index	
Terms & Conditions	.98

KS4400 Series



The KS4400 series is simple, modular and flexible yet highly functional. The half shell design is cost effective and provides exceptional space utilization. Three levels of terminals with fixed and pluggable PCB terminal options allow for high density connections. A large front face area provides ample space for operator, communication and visual display components.

MATERIALS

Housing

Housing Shell: Polyamide, Glass Filled; Front Plate: PBT

Terminals

Housing: Polyamide; Terminal Pins: Tinned Brass Temperature Rating: 120°C (248°F) UL94V0

Standard Color: Black Housing with Gray Front Plate

Other colors are available upon request.

PROTECTION

KS4400 enclosures have an IP40 rating, IP20 for terminal openings (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KS4400 enclosure series housings are supplied as unassembled kits. Each kit consists of two half shells, a front plate, DIN rail clip and terminal sets. The terminals are set on three levels to maximize space. The terminals are machine solderable with right angle pins. PC boards are mounted vertically in the enclosure, perpendicular to the DIN rail.

TERMINALS

The terminals are available as fixed or pluggable PCB terminals. The terminal blocks are all machine solderable. Fixed PCB terminals are standard screw cage clamp style terminal blocks.

Pluggable PCB terminals feature male pin headers and female screw cage clamp or spring cage clamp plugs that can be plugged/unplugged. Terminal spaces can also be left blank and covered with a snap in cover (terminal blanking plug).

MOUNTING

The KS4400 series can easily be mounted on standard 35mm DIN rail by means of the integral mounting foot and DIN clip.

The KS4400 series have large marking areas on the front of the cover.

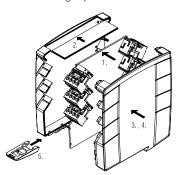
CUSTOMIZATION

We can supply the KS4400 series enclosures with many custom options including:

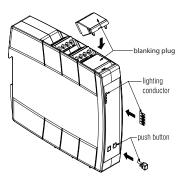
- Partial or mixed terminal loading
 Printing/Marking
- Enclosure bus connections
- Machining of custom holes
- Front cover with test buttons
- Ventilation Slots
- Hinged front covers

ASSEMBLY OF ENCLOSURE

- 1 With terminals fitted, place the PCB in the first enclosure half shell.
- Slide the front plate in the slot in the first enclosure half shell.
- Place this assembly flat and line-up the second half shell so that the front plate slides into the slot.
- Manually close both half shells until they snap together.
- 5 Insert the DIN rail mounting clip into the base of the enclosure.



ACCESSORIES AND OPTIONS







8 Terminal **Screw Terminals**



TECHNICAL INFORMATION

Electrical:

10A, 300V, 20-14AWG

Materials:

Housing - PA

Hinged Front Plate - PC

Temperature Range:

Up to 105°C (221°F)

Flammability Rating:

UL94 V-O Housing

UL94 V-2 Front Plate

*Color: Black Housing

Transparent Cover Plate

Terminal Type:

Screw

Terminal Screw Size: M3.5 Recommended Torque:

0.6Nm

Max. PCB's:

(1) Vertical

Mounting:

35mm DIN Rail

8	Ter	m	na	
Sp	ring	Ter	mir	als



TECHNICAL INFORMATION

Electrical:

10A, 300V, 20-14AWG

Materials:

Housing - PA

Hinged Front Plate - PC

Temperature Range:

Up to 105°C (221°F)

Flammability Rating:

UL94 V-O Housing UL94 V-2 Front Plate

*Color: Black Housing

Transparent Cover Plate

Terminal Type:

Spring

Terminal Screw Size: -Recommended Torque: -

Max. PCB's:

(1) Vertical

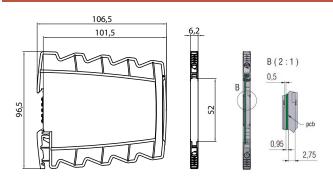
Mounting:

35mm DIN Rail

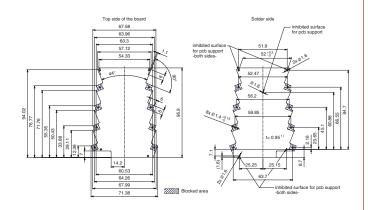
ORDERING INFORMATION				
	Part Number	Туре	Terminals	PCB Connection
	90.110	KS4460	Screw	Solder Pin

ACCESSORIES		
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pipes, 5mm Grid	90.192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)

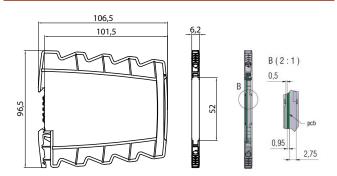


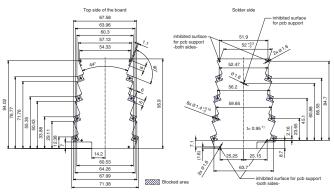
^{*}Other colors are available upon request.

ORDERING INFORMATION Part Number Type **Terminals PCB Connection** KS4460 Solder Pin 90.115 Spring

ACCESSORIES		
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pipes, 5mm Grid	90.192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Fixed Terminals



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14AWG

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range:

Up to 120°C (248°F)

Flammability Rating:

Light Pipes, 5mm Grid

UL94 V-O

*Color: Black Housing Gray Cover Plate

Terminal Type:

Fixed Screw

Terminal Screw Size: M2.5 **Recommended Torque:**

0.5Nm

Max. PCB's:

(1) Vertical

Mounting:

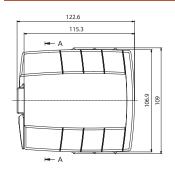
35mm DIN Rail

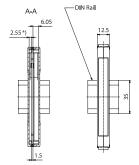
ORDERING I	INFORMATION	ON	
Part Number	Туре	Terminals	PCB Connection
90.120	KS4401/F	Fixed Screw	Machine Solder

ACCESSORIES		
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

90.192

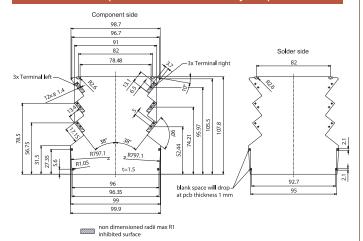




KS4400-6-1

*) 3.05 with printed circuit board thickness $t=1\ mm$

PCB DRAWING (To convert to inches divide by 25.4.)



^{*}Other colors are available upon request.

12 Terminal

Pluggable Terminals



TECHNICAL INFORMATION

Electrical:

10A, 300V, 30-12AWG (Screw); 10A, 300V, 26-12AWG (Spring)

Materials:

Housing - PA-GF

Front Plate - PBT

Terminals - PA

Temperature Range: Up to 120°C (248°F)

Flammability Rating:

UL94 V-O

*Color:Black Housing

Gray Cover Plate

Terminal Type:

Pluggable Screw / Pluggable Spring

Terminal Screw Size: M2.5 **Recommended Torque:**

0.5Nm

Max. PCB's:

(1) Vertical

Mounting:

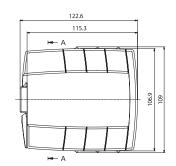
35mm DIN Rail

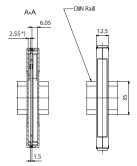
ORDERING INFORMATION			
Part Number	Type	Terminals	PCB Connection
90.121	KS4401/PS	Pluggable Screw	Machine Solder
90.122	KS4401/PC	Pluggable Spring	Machine Solder

ACCESSORIES Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M

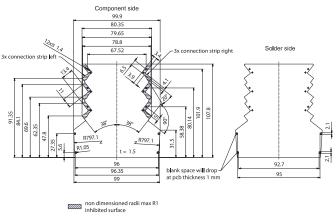
1 Meter DIN Rail 2511120/1M TS35x7.5/1M Terminal Blanking Plug 90.190 KS4403-5-1 Light Pipes, 3mm Grid 90.191 KS4400-7-1 Light Pipes, 5mm Grid 90.192 KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





*) 3.05 with printed circuit board thickness $t=1\ mm$



18 Terminal **Fixed Terminals**



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14AWG

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range: Up to 120°C (248°F)

Flammability Rating:

UL94 V-O

*Color:Black Housing Gray Cover Plate

Terminal Type:

Fixed Screw

Terminal Screw Size: M2.5 Recommended Torque:

0.5Nm

Max. PCB's:

(1) Vertical

Mounting:

35mm DIN Rail

18 Terminal **Pluggable Terminals**



TECHNICAL INFORMATION

Electrical:

10A, 300V, 30-12AWG (Screw); 10A, 300V, 26-12AWG (Spring)

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range: Up to 120°C (248°F)

Flammability Rating: **UL94 V-O**

*Color:Black Housing

Gray Cover Plate

Terminal Type:

Pluggable Screw / Pluggable Spring

Terminal Screw Size: M2.5 Recommended Torque:

0.5Nm Max. PCB's:

(1) Vertical

Mounting:

35mm DIN Rail

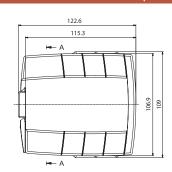
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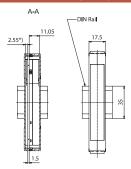
Part Number	Туре	Terminals	PCB Connection
90.130	KS4402/F	Fixed Screw	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pipes, 5mm Grid	90.192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





*) 3.05 with printed circuit board thickness t = 1 mm

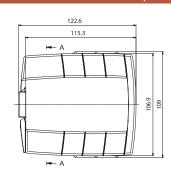
ORDERING INFORMATION

Part Number	Туре	Terminals	PCB Connection
90.131	KS4402/PS	Pluggable Screw	Machine Solder
90 132	KS4402/PC	Pluggable Spring	Machine Solder

ACCESSORIES

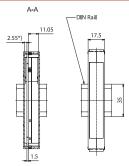
Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pipes, 5mm Grid	90.192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

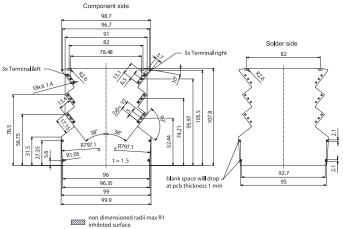


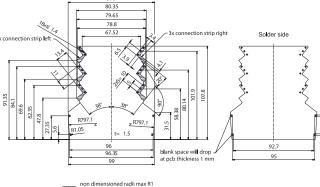
PCB DRAWING (To convert to inches divide by 25.4.)

Component side



*) 3.05 with printed circuit board thickness t = 1 mm





^{*}Other colors are available upon request.



24 Terminal Fixed Terminals



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14AWG

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range: Up to 120°C (248°F)

Flammability Rating:

UL94 V-O

*Color:Black Housing

Gray Cover Plate

Terminal Type:

Fixed Screw

Terminal Screw Size: M2.5 Recommended Torque:

0.5Nm

Max. PCB's: (1) Vertical

Mounting:

viouriting.

35mm DIN Rail

24 TerminalPluggable Terminals



TECHNICAL INFORMATION

Electrical:

10A, 300V, 30-12AWG (Screw); 10A, 300V, 26-12AWG (Spring)

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range: Up to 120°C (248°F)

Flammability Rating:

ORDERING INFORMATION

Type KS4403/PS

UL94 V-O

Part Number

90.141

Light Pipes, 3mm Grid

*Color:Black Housing

Gray Cover Plate

Terminal Type:

Pluggable Screw / Pluggable Spring

Terminal Screw Size: M2.5 Recommended Torque:

PCB Connection

Machine Solder

KS4400-7-1

KS4400-6-1

0.5Nm

Max. PCB's:

(1) Vertical

Mounting:

Terminals

Pluggable Screw

35mm DIN Rail

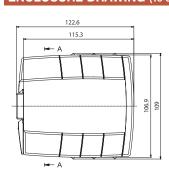
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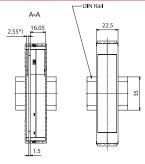
Part Number	Туре	Terminals	PCB Connection
90.140	KS4403/F	Fixed Screw	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pipes, 5mm Grid	90.192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





*) 3.05 with printed circuit board thickness $t=1\ mm$

Light Pipes, 5mm Grid

90.142 KS4403/PC Pluggable Spring Machine Solder

ACCESSORIES

Accessories Part Number Type

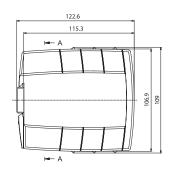
1 Meter DIN Rail 2511120/1M TS35x7.5/1M

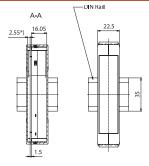
Terminal Blanking Plug 90.190 KS4403-5-1

90.191

90.192

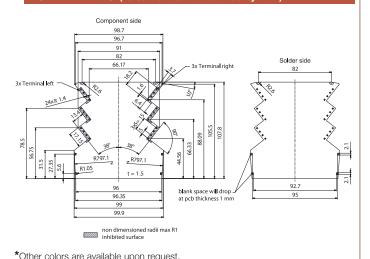
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

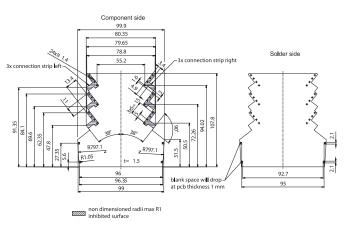




*) 3.05 with printed circuit board thickness $t=1\ mm$

PCB DRAWING (To convert to inches divide by 25.4.)





36 Terminal Fixed Terminals



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14AWG

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range:

Up to 120°C (248°F) **Flammability Rating:**

UL94 V-O

*Color:Black Housing Gray Cover Plate

Terminal Type:

Fixed Screw

Terminal Screw Size: M2.5 Recommended Torque:

0.5Nm

Max. PCB's: (2) Vertical

Mounting:

35mm DIN Rail

36 Terminal Pluggable Terminals



TECHNICAL INFORMATION

Electrical:

10A, 300V, 30-12AWG (Screw); 10A, 300V, 26-12AWG (Spring)

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range: Up to 120°C (248°F)

Flammability Rating:

UL94 V-O

*Color:Black Housing

Gray Cover Plate

Terminal Type:

Pluggable Screw / Pluggable Spring

Terminal Screw Size: M2.5 Recommended Torque:

0.5Nm

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail

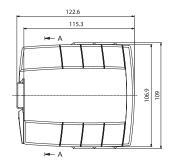
ORDERING INFORMATION

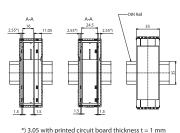
Part Number	Туре	Terminals	PCB Connection
90.150	KS4461/F	Fixed Screw	Machine Solder

ACCESSORIES

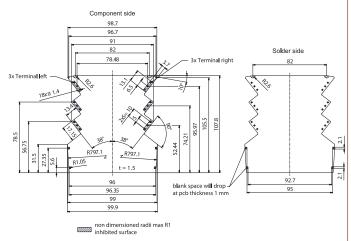
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pipes, 5mm Grid	90.192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





PCB DRAWING (To convert to inches divide by 25.4.)



*Other colors are available upon request.

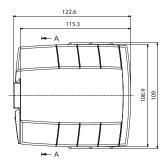
ORDERING INFORMATION

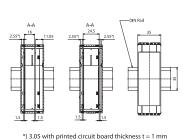
Part Number	Туре	Terminals	PCB Connection
90.151	KS4461/PS	Pluggable Screw	Machine Solder
90 152	KS4461/PC	Pluggable Spring	Machine Solder

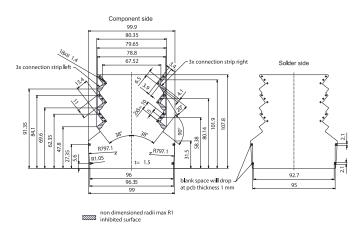
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pines, 5mm Grid	90 192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)









48 Terminal **Fixed Terminals**



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14AWG

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range:

Up to 120°C (248°F) Flammability Rating:

UL94 V-O

*Color:Black Housing

Gray Cover Plate

Terminal Type:

Fixed Screw

Terminal Screw Size: M2.5 Recommended Torque:

0.5Nm

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail

1	Pluggable Terminals



TECHNICAL INFORMATION

Electrical:

48 Terminal

10A, 300V, 30-12AWG (Screw); 10A, 300V, 26-12AWG (Spring)

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range: Up to 120°C (248°F) Flammability Rating:

UL94 V-O

*Color:Black Housing

Gray Cover Plate

Terminal Type:

Pluggable Screw / Pluggable Spring

Terminal Screw Size: M2.5 **Recommended Torque:**

0.5Nm

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail

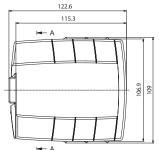
ORDERING INFORMATION

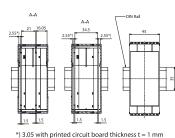
Part Number	Туре	Terminals	PCB Connection
90.160	KS4404/F	Fixed Screw	Machine Solder

ACCESSORIES

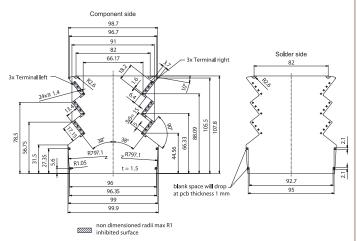
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pipes, 5mm Grid	90.192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





PCB DRAWING (To convert to inches divide by 25.4.)



*Other colors are available upon request

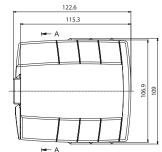
ORDERING INFORMATION

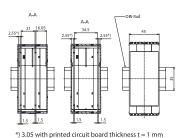
Part Number	Туре	Terminals	PCB Connection
90.161	KS4404/PS	Pluggable Screw	Machine Solder
90.162	KS4404/PC	Pluggable Spring	Machine Solder

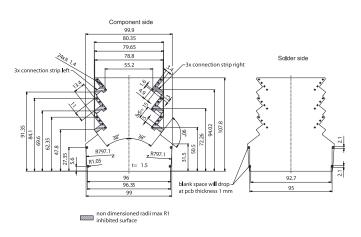
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pipes, 5mm Grid	90.192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







72 Terminal Fixed Terminals



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14AWG

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range:

Up to 120°C (248°F) Flammability Rating:

UL94 V-O

*Color:Black Housing Gray Cover Plate

Terminal Type:

Fixed Screw

Terminal Screw Size: M2.5 **Recommended Torque:**

0.5Nm

Max. PCB's:

(3) Vertical

Mounting:

35mm DIN Rail

72 TerminalPluggable Terminals



TECHNICAL INFORMATION

Electrical:

10A, 300V, 30-12AWG (Screw); 10A, 300V, 26-12AWG (Spring)

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range: Up to 120°C (248°F)

Flammability Rating: UL94 V-O

*Color:Black Housing Gray Cover Plate

Terminal Type:

Pluggable Screw / Pluggable Spring

Terminal Screw Size: M2.5 Recommended Torque:

0.5Nm Max. PCB's:

(3) Vertical

Mounting:

35mm DIN Rail

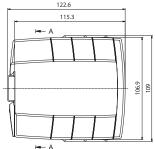
ORDERING INFORMATION

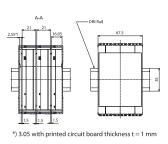
Part Number	Туре	Terminals	PCB Connection
90.170	KS4405/F	Fixed Screw	Machine Solder

ACCESSORIES

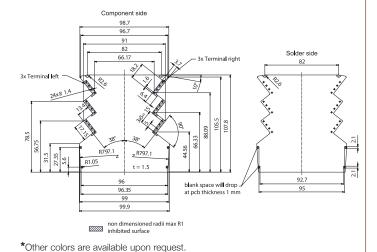
Accessories	Part Number	Туре	
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M	
Terminal Blanking Plug	90.190	KS4403-5-1	
Light Pipes, 3mm Grid	90.191	KS4400-7-1	
Light Pipes, 5mm Grid	90.192	KS4400-6-1	ĺ

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)









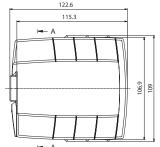
ORDERING INFORMATION

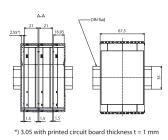
Part Number Type		Terminals	PCB Connection
90.171	KS4405/PS	Pluggable Screw	Machine Solder
90.172	KS4405/PC	Pluggable Spring	Machine Solder

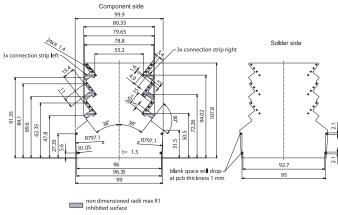
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pipes, 5mm Grid	90.192	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)









96 Terminal **Fixed Terminals**



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14AWG

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range:

Up to 120°C (248°F)

Flammability Rating:

UL94 V-O

*Color:Black Housing

Gray Cover Plate

Terminal Type:

Fixed Screw

Terminal Screw Size: M2.5 **Recommended Torque:**

0.5Nm

Max. PCB's:

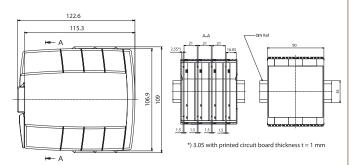
(4) Vertical Mounting:

35mm DIN Rail

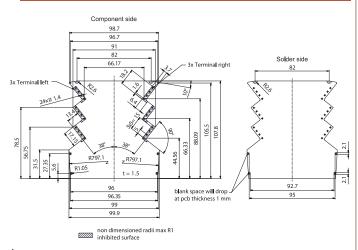
ORDERING INFORMATION					
Part Number	Туре	Terminals	PCB Connection		
90.180	KS4406/F	Fixed Screw	Machine Solder		

ACCESSORIES				
Accessories	Part Number	Туре		
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M		
Terminal Blanking Plug	90.190	KS4403-5-1		
Light Pipes, 3mm Grid	90.191	KS4400-7-1		
Light Pipes, 5mm Grid	90.192	KS4400-6-1		

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



*Other colors are available upon request.

96 Terminal **Pluggable Terminals**



TECHNICAL INFORMATION

Electrical:

10A, 300V, 30-12AWG (Screw); 10A, 300V, 26-12AWG (Spring)

Materials:

Housing - PA-GF Front Plate - PBT Terminals - PA

Temperature Range: Up to 120°C (248°F)

Flammability Rating:

UL94 V-O

*Color:Black Housing

Gray Cover Plate

Terminal Type:

Pluggable Screw / Pluggable Spring

Terminal Screw Size: M2.5 Recommended Torque:

0.5Nm

Max. PCB's:

(4) Vertical

Mounting:

35mm DIN Rail

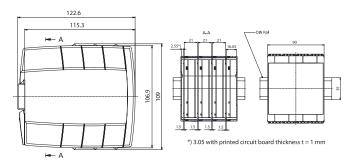
ORDERING INFORMATION

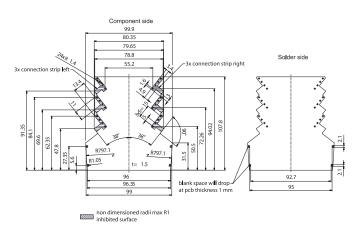
Part Number	Туре	Terminals	PCB Connection
90.181	KS4406/PS	Pluggable Screw	Machine Solder
90 182	KS4406/PC	Pluggable Spring	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Blanking Plug	90.190	KS4403-5-1
Light Pipes, 3mm Grid	90.191	KS4400-7-1
Light Pines 5mm Grid	QO 1Q2	KS4400-6-1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Ideal for industrial applications. Small to large in size, KO4700 enclosures can accommodate 8 to 132 terminals for field wire connections. Series KO4700 enclosures can be customized to the exact number of terminals required. Standard enclosures are equipped with the maximum number of terminal strips and terminals. The KO4700 series are available with two types of terminations for connecting external wires. The Pressure Plate type terminals, with a center line spacing of 9mm (.35 in.) and the Box Clamp design, which has a 5mm (.19 in.) center line spacing for much higher density.

MATERIALS

Housing

Housing Shell: Polycarbonate, 10% Glass Filled

Cover: Polycarbonate, 10% Glass Filled

Cover Panel: Clear Polycarbonate or Glass Filled Polycarbonate

Terminals

Pressure Plate: Zinc Plated, Chromated Steel Terminal Screw: Zinc Plated, Chromated Steel

Clamp: Nickel Plated Brass Busbar: Tin Plated Bronze

Connector Contact: Beryllium Copper, Tin Plated

(gold plating available)

Temperature Rating:

125°C (257°F), UL94VO Housing Shell Color: Black Terminal Cover Color: Tan

PROTECTION

KO4700 enclosures have an IP20 rating (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KO4700 enclosure series consists of a black housing shell and a tan cover with integral terminals and terminal-to-board connections. They are supplied unassembled.

The housing shell has molded printed circuit board guides to save time when inserting printed circuit boards, prevent misconnections and to keep the boards from moving. Integral tabs on the bottom of the shell further help to hold boards in place, eliminating lateral movement. KO4700 housing shells can be potted.

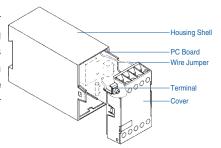


Printed circuit boards can be mounted in three ways:

- Behind the Front Cover
- Horizontally
- Vertically

Depending on the enclosure type, one board can be mounted directly behind the front cover (parallel to the DIN rail). Boards can also be mounted horizontally (parallel to the DIN rail) or vertically (perpendicular to the DIN rail). (Refer to the Ordering Pages for board patterns and location of board guides.)

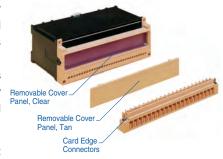
The housing cover snaps onto the housing shell. Two keyed tabs lock the cover firmly in place. Removal of the cover is possible for service and repair.



COVER DESIGNS

Single piece, tan color covers are typically used with the smaller enclosures. They incorporate terminals and connections to the inside of the enclosure. In some of the smaller enclosures, the cover doubles as a plug. A printed circuit board can be mounted directly behind the front cover. This board is ideal for mounting

components used for setting, adjusting and monitoring such as switches, potentiometer, LEDs and LCDs. There is no interferance with any other boards mounted within the enclosure.



Modular covers consist

of a one-piece tan frame with matching flat front panel. Some versions have a front cover panel that is removable and offered in matching tan or clear. The front covers can be custom imprinted or marking plates can be produced and installed behind the transparent front cover panel.

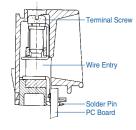
TERMINAL DESIGNS

Select from Pressure Plate or Box Clamp terminals with wire protectors, and fixed or pluggable terminal-to-board connections. (Please refer to the Ordering Pages). Removable fixed or pluggable terminal strips can be replaced by terminal plugs if not all of the external connections of the standard enclosure are needed. The terminal screws used with both the pressure plate and box clamp designs can be operated with a flat tip or a #1 or #2 Philips type screwdriver.



Pressure Plate Termination

This type of terminal consists of a pressure plate (captive to the terminal screw) and the terminal bottom. The pressure plate rises automatically when the screw is loosened. One or two wires, of equal or different sizes up to 2.5mm² (14 AWG) can be terminated.



The grooved corners of the pressure plate ensure positive retention of wire(s). The flat bottom of the terminal extends to the inside of the enclosure and connects the terminal to the board(s) inside.

Box Clamp Termination

The box clamp terminal accepts wires up to 4mm² (12 AWG). When the terminal screw is tightened, the serrated bottom of the wire protector pushes the wire to be terminated against the serrated busbar. The busbar extends to the inside of the enclosure to provide the terminal-to-board connection.

TERMINAL-TO-BOARD CONNECTIONS

The KO4700 Series offers fixed and pluggable terminal-to-board connection possibilities. (Please refer to the Ordering Pages on the following pages for your selection.)

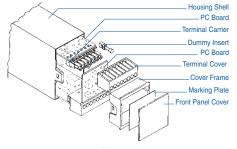
Fixed Connections

Fixed terminal-to-board connections can be made by Wire Jumper, Fast On tabs, Solder tabs, or Machine Solderable Pins.

Fast On tabs, 2.8mm (.11in.) accept industry standard Fast On

connectors. Use with wire jumpers to connect to board(s).

Wire Jumper
connections can
also be made by
soldering a wire
jumper between the
center hole of the



Fast On tab and the printed circuit board(s). Solder Tab can be hand soldered to the board.

Machine Solderable Pins can be machine soldered to the board in the same step as the other components, saving assembly time. The metal parts of the terminals are supplied as separate strips which snap into the terminal housing after soldering.

Pluggable Connections

The pluggable terminal strips of the KO4700 series fit across the width of the enclosure and plug directly into the board(s) by using a Card Edge connector. Enclosures equipped with pressure plate terminals also provide Solder Tabs for terminal-to-board connections when mounting an additional board directly behind the front cover. A Wire Jumper can be soldered to these tabs as well.

For better retention, the strips have captive screws at each end

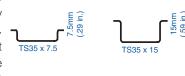
that insert into brass bushings, molded into the housing shell. The pluggable versions are ideal whenever quick connections and replacement of boards and devices is important. They also reduce the danger of misconnected wires and downtime.

MOUNTING

The KO4700 Series enclosures are designed to be mounted on standard 35×7.5 mm DIN rail but will also fit on the 35×15 mm DIN rail. The extra high enclosures should be mounted on the deeper, 35×15 mm DIN rail. (Refer to the Ordering Pages on the following pages to determine the correct size rail for the enclosure you select.)

KO4700 series enclosures can also be panel mounted using pull-

out tabs on the base of the enclosure. One tab is factory installed on each enclosure. Up to a total of 6 pull-out mounting tabs can be installed (See Accessories)



(Refer to page 49 for mounting instructions.)

MARKING

KO4700 enclosures have a flat center area on the cover for marking and mounting of components. Several types have removable front cover panels, which can be marked at a separate location. Imprinted marking plates can be used in conjunction with the transparent, removable cover panel.

ACCESSORIES

- Terminal Cover Strips
- Pull-Out Panel Mounting Tabs
- · Screws for Mounting Printed Circuit Board
- 35 x 7.5mm DIN Rail
- 35 x 15mm DIN Rail

CUSTOMIZATION

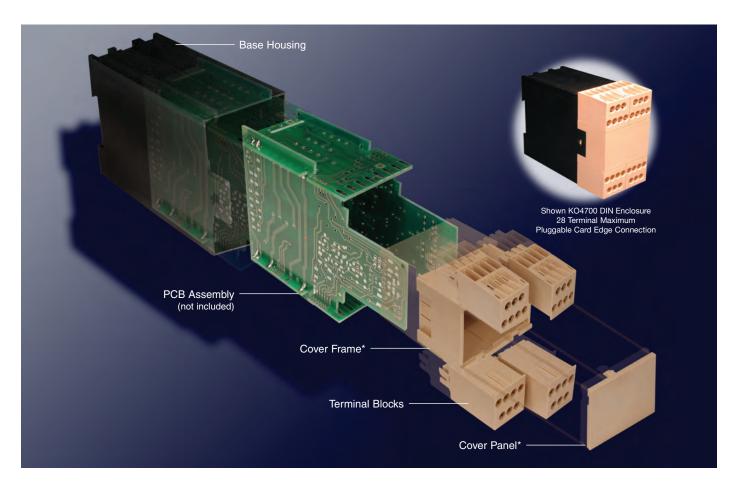
Enclosures can be customized to the exact number of terminals needed. We can punch, drill or cut custom cutouts and holes for potentiometers, switches, LEDs or LDCs. Custom colors and special markings are also available. Please call us for further information.



MODULAR ENCLOSURES (pages 32-39)

A group of modular enclosures is available in the KO4700 series. These enclosures can be ordered in a variety of terminal arrangements allowing for many different customized configurations. Terminal sets are available in 3, 4 and 7 pole blocks as well as blank blocks without terminals. High Current terminals are also available on some models. This modular terminal design allows anywhere from 0 to 56 terminals for field wire connections.

The KO4700 modular enclosures have the same design features of the standard series as well as the same materials. The terminals are of the box clamp style. The standard terminals feature pluggable connections while solder connections are used on the high current terminals. Printed circuit board placement is horizontal (parallel to the DIN rail) or vertical (perpendicular to the DIN rail).



Ordering Information

The modular enclosures are ordered in separate pieces. A complete enclosure consists of a base, cover frame*, cover panel* and the appropriate number of terminal blocks. Standard terminal blocks can be ordered as blank blocks with no termination points or with 3, 4, or 7 terminations. High current terminal blocks are available on some models. Theses blocks can also be ordered as blank blocks with no terminations or with 3 terminations. (Please refer to the Ordering Pages on the following pages for a list of how many blocks should be ordered per enclosure).

 $^{^{\}star}$ High current versions have one piece center cover section instead of this two piece design.



Solder Connection



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

led Torque:

Max. PCB's:

(2) Vertical

(1) Behind cover

optional panel mounting*

Recommend
0.8Nm

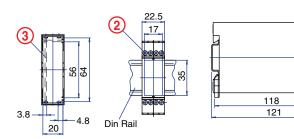
Mounting:

35mm DIN Rail or

ORDERING INFORMATION					
Part Number Type		Description	PCB Connection		
90.201	KO4712	Solid Cover	Machine		
			Solderable Pins		
90.201.1	KO4712	Removable Cover	Machine		
		Panel, Tan	Solderable Pins		
90.201.2	KO4712	Removable Cover	Machine		
		Donal Class	Caldarable Dina		

ACCESSORIES					
Accessories	Part Number	Туре			
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M			
*Panel Mount Tab	93 001 2	PMA			

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)

65.4 (2) 67 34.8 Ø1 35 16.2 5.4 19.4 1.5 thick 55.6 107 85 87 1.5 thick

8 Terminal

Solder/Tab Connection



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

1 Meter DIN Rail

*Panel Mount Tab

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

ΓS35x7.5/1M

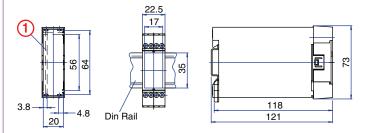
PMA

ORDERING INFORMATION					
Part Number	Type	Description	PCB Connection		
90.202	KO4712B	Solid Cover	Wire		
			Jumper		
90.202.1	KO4712B	Removable Cover	Wire		
		Panel, Tan	Jumper		
90.202.2 KO4712B		Removable Cover	Wire		
		Panel, Clear	Jumper		
ACCESSORIES					
Accesso	ries	Part Number	Туре		

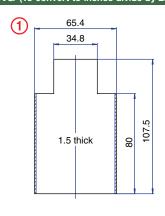
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

2511120/1M

93.001.2



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

unused space

73

Spring Clamp Solder/Tab Connection



TECHNICAL INFORMATION

Electrical:

16A, 300V, 24-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Black Housing with Tan Cover

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail

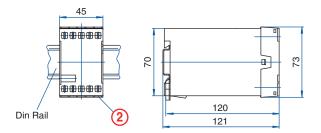
obb		IFORI	

Part Number	Туре	Description	PCB Connection	
90.215	KO4761	Solid Cover	Wire Jumper/ Fast On	

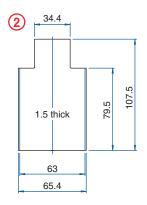
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

10 Terminal

Solder/Tab Connection



TECHNICAL INFORMATION

Electrical:

25A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Black Housing with Tan Cover

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

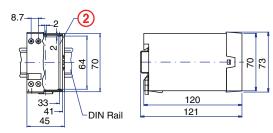
(2) Vertical

Mounting:

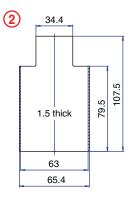
35mm DIN Rail

ORDERING INFORMATION				
Part Number	Гуре	Description	PCB Connection	
90.230 KC	04762	Solid Cover	Wire Jumper/ Fast On	
ACCESSORIES				
Accessories	6	Part Number	Туре	
1 Meter DIN R	ail	2511120/1M	TS35x7.5/1M	

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)





Solder Connection



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 clear panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

(1) Horizontal

Mounting:

35mm DIN Rail

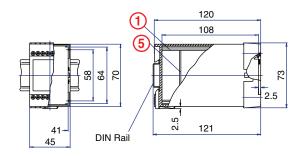
ORDERING	INFORM	AHON
Part Number	Type	Des

Part Number	r Type	Description	PCB Connection
90.290	KO4763A	Solid Cover	Machine
			Solderable Pins
90.291	KO4763A	Removable Cover	Machine
		Panel, Tan	Solderable Pins
90.292	KO4763A	Removable Cover	Machine
		Panel, Clear	Solderable Pins

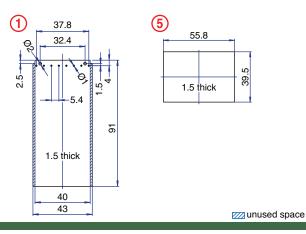
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



16 Terminal

Solder/Tab Connection



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 clear panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

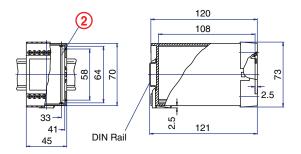
Mounting:

35mm DIN Rail

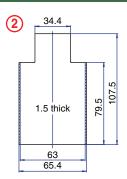
ORDERING INFORMATION			
Part Number	Туре	Description	PCB Connection
90.300	KO4763B	Solid Cover	Wire
			Jumper
90.301	KO4763B	Removable Cover	Wire
		Panel, Tan	Jumper
90.302	KO4763B	Removable Cover	Wire
		Panel, Clear	Jumper

	,	· ·	
ACCESSORIES			
		_	
Accessories	Part Number	Type	

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 clear panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

- (2) Vertical
- (1) Horizontal

Mounting:

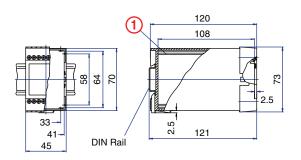
35mm DIN Rail

Part Number		Description	PCB Connection
90.320	KO4763P	Solid Cover	Card Edge
90.321	KO4763P	Removable Cover Panel, Tan	Card Edge
90.322	KO4763P	Removable Cover Panel, Clear	Card Edge

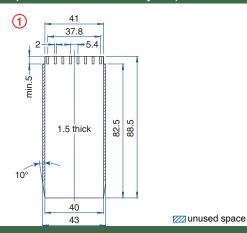
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



20 Terminal

Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 clear panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(5) Vertical

(1) Horizontal behind cover

Mounting:

35mm DIN Rail or optional panel mounting*

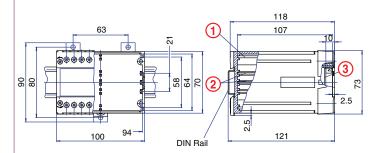
ORDERING INFORMATION

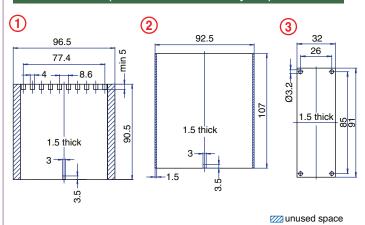
Part Number	r Type	Description	PCB Connection
90.350	KO4718P	Solid Cover	Card Edge/
			Wire Jumper
90.351	KO4718P	Removable Cover	Card Edge/
		Panel, Tan	Wire Jumper
90.352	KO4718P	Removable Cover	Card Edge/
		Panel, Clear	Wire Jumper

ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 2)	93.001.2	PMA

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Solder Connection



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(5) Vertical

(1) Behind cover

Mounting:

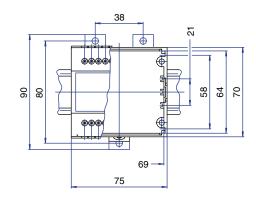
35mm DIN Rail or

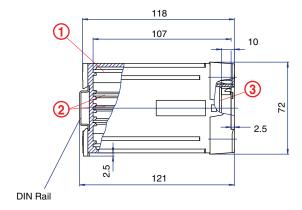
optional panel mounting*

ORDERING	INFORM	ATION	
Part Number	Туре	Description	PCB Connection
90.380	KO4713A	Solid Cover	Machine
			Solderable Pins
90.381	KO4713A	Removable Cover	Machine
		Panel, Tan	Solderable Pins
90.382	KO4713A	Removable Cover	Machine
		Panel, Clear	Solderable Pins

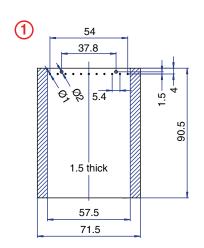
ACCESSORIES		
Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 2)	93.001.2	PMA

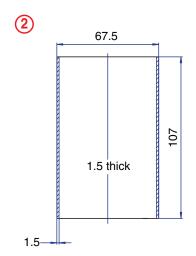
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

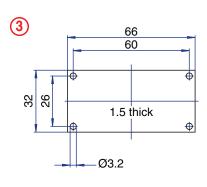




PCB DRAWING (To convert to inches divide by 25.4.)







Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F) **Flammability Rating:**

UL94 V-O (V-2 clear panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

- (5) Vertical
- (1) Behind cover

Mounting:

35mm DIN Rail or

optional panel mounting*

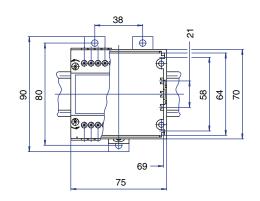
ORDERING INFORMATION

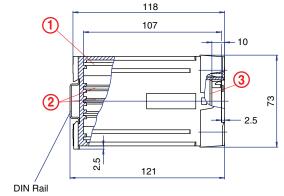
Part Number	Type	Description	PCB Connection
90.410	KO4713P	Solid Cover	Card Edge
90.411	KO4713P	Removable Cover Panel, Tan	Card Edge
90.412	KO4713P	Removable Cover Panel, Clear	Card Edge

ACCESSORIES

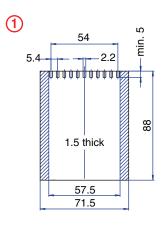
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 2)	93 001 2	РΜΔ

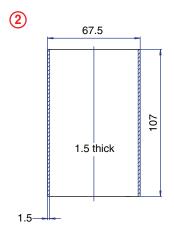
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

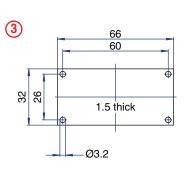




PCB DRAWING (To convert to inches divide by 25.4.)









Solder Connection



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F) Flammability Rating:

UL94 V-O (V-2 clear panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

- (5) Vertical
- (1) Behind Cover

Mounting:

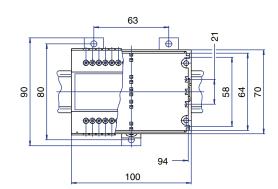
35mm DIN Rail or ounting*

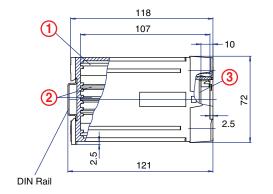
JOHNIE	ווי	па	II C	
optional	ра	nel	m	(

ORDERING	INFORM	ATION	
Part Number	Type	Description	PCB Connection
90.440	KO4717A	Solid Cover	Machine Solderable Pins
90.441	KO4717A	Removable Cover Panel, Tan	Machine Solderable Pins
90.442	KO4717A	Removable Cover Panel, Clear	Machine Solderable Pins
ACCESSORIES			
Accessorie	s	Part Number	Type

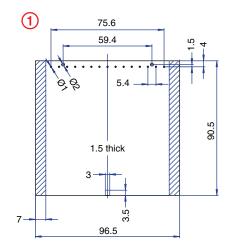
2511120/1M 1 Meter DIN Rail 35x7.5/1M *Panel Mount Tab (need 2) 93.001.2 PMA

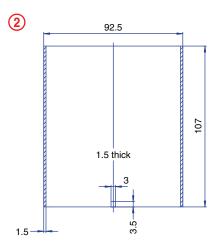
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

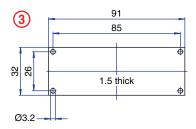




PCB DRAWING (To convert to inches divide by 25.4.)







Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 clear panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

- (5) Vertical
- (1) Behind Cover

Mounting:

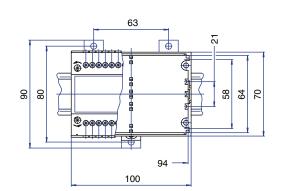
35mm DIN Rail or

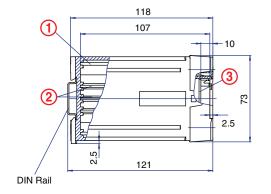
optional panel mounting*

ORDERING	INFORM	ATION	
Part Number	Type	Description	PCB Connection
90.470	KO4717P	Solid Cover	Card Edge
90.471	KO4717P	Removable Cover Panel, Tan	Card Edge
90.472	KO4717P	Removable Cover Panel, Clear	Card Edge
ACCESSORIES			

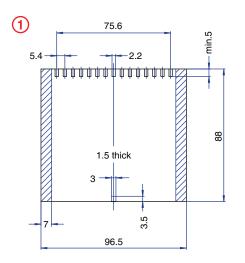
Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 2)	93.001.2	PMA

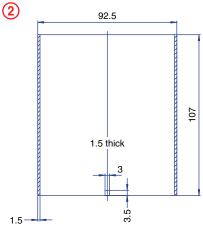
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

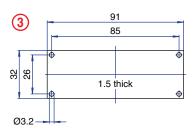




PCB DRAWING (To convert to inches divide by 25.4.)









Pluggable and **Solder Connection**



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range: Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 clear panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Screw/ Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

- (5) Vertical
- (1) Behind cover
- (1) Base Mount

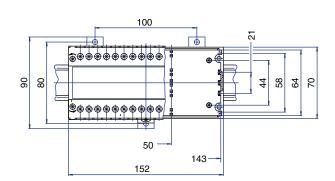
Mounting:

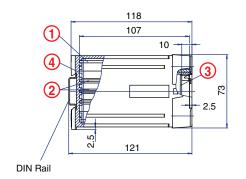
35mm DIN Rail or optional panel mounting*

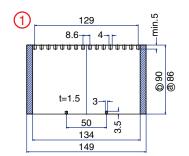
ORDERING	INFORM	ATION	
Part Number	Туре	Description	PCB Connection
90.500	KO4719P	Solid Cover	Card Edge/
			Wire Jumper
90.501	KO4719P	Removable Cover	Card Edge/
		Panel, Tan	Wire Jumper
90.502	KO4719P	Removable Cover	Card Edge/
		Panel, Clear	Wire Jumper

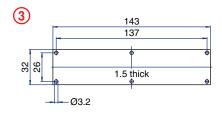
ACCESSORIES		
Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 3)	93.001.2	PMA

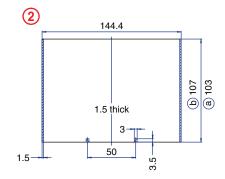
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

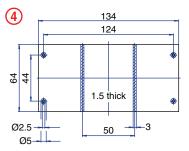












- unused space
- (a) with base mount PCB
- **(b)** without base mount PCB

Pluggable and Solder Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating: UL94 V-O (V-2 clear panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Screw/ Pressure Plate

Terminal Screw Size:

M3 5

Recommended Torque:

0.8Nm

Max. PCB's:

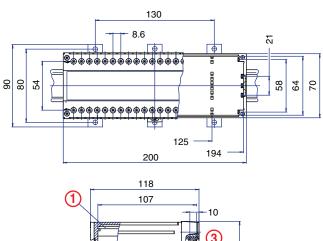
- (5) Vertical
- (1) Behind cover

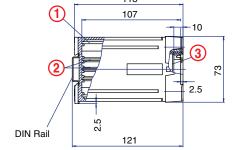
Mounting:

35mm DIN Rail or optional panel mounting*

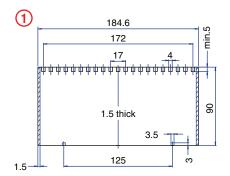
ORDERING INFORMATION				
Part Number	Туре	Description	PCB Connection	
90.530	KO4720P	Solid Cover	Card Edge/ Wire Jumper	
90.531	KO4720P	Removable Cover Panel, Tan	Card Edge/ Wire Jumper	
90.532	KO4720P	Removable Cover Panel, Clear	Card Edge/ Wire Jumper	
ACCESSORIES				
Accesso	ries	Part Number	Туре	
1 Meter DII	N Rail	2511120/1M	TS35x7.5/1M	
*Panel Mount T	ab (need 3)	93.001.2	PMA	

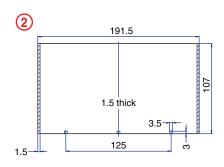
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

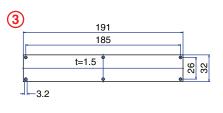




PCB DRAWING (To convert to inches divide by 25.4.)









Pluggable and Solder Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Black Housing with Tan Cover

Terminal Type:

Screw/ Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(11) Vertical

(1) Base Mount

Mounting:

35mm DIN Rail or

optional panel mounting*

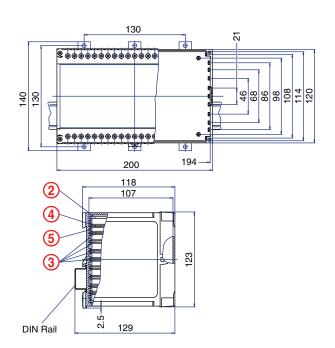
$\boldsymbol{\wedge}$	1 - 1	NIA	4 - 1 V I	ATION

Part Number Type	Description	PCB Connection
90.560 KO4722SP	Solid Cover	Card Edge/
		Wire Jumper

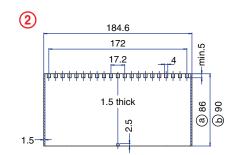
ACCESSORIES

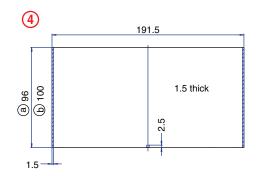
Accessories	Part Number	Туре	
1 Meter DIN Rail	CA701/15-S	TS35x15/1M	
*Panel Mount Tah (need 3)	93 001 2	РΜΔ	

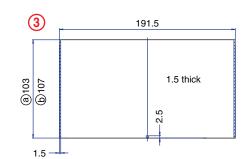
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

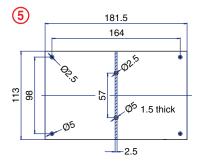


PCB DRAWING (To convert to inches divide by 25.4.)









zzz unused space

- (a) with base mount PCB
- (b) without base mount PCB

Solder Connection



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

- (5) Vertical
- (1) Behind Cover
- (1) Base Mount

Mounting:

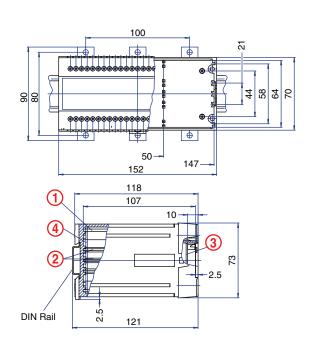
35mm DIN Rail or optional panel mounting*

ORDERING INFORMATION					
Part Number	Туре	Description	PCB Connection		
90.590	KO4716A	Solid Cover	Machine		
			Solderable Pins		
90.591	KO4716A	Removable Cover	Machine		
		Panel, Tan	Solderable Pins		
90.592	KO4716A	Removable Cover	Machine		
		Panel, Clear	Solderable Pins		

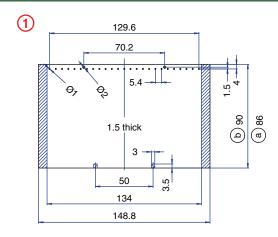
ACCESSORIES

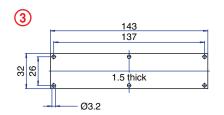
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 3)	93 001 2	РΜΔ

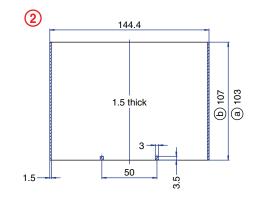
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

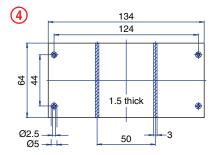


PCB DRAWING (To convert to inches divide by 25.4.)









- ⓐ with base mount PCB
- (b) without base mount PCB



Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range: Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

- (5) Vertical
- (1) Behind cover
- (1) Base Mount

Mounting:

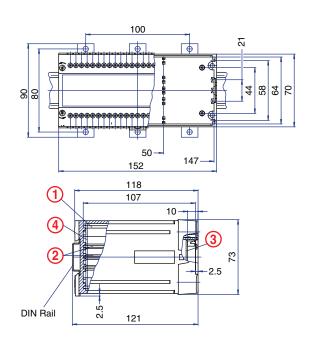
35mm DIN Rail or optional panel mounting*

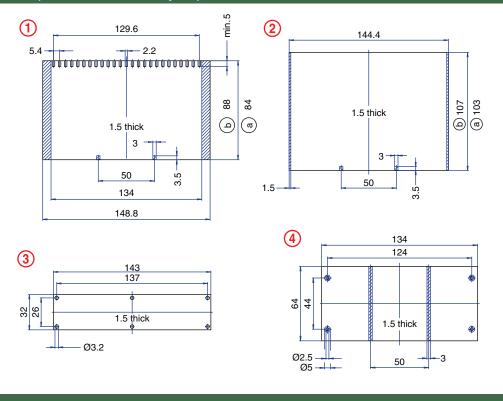
ORDERING INFORMATION					
Part Number	Type	Description	PCB Connection		
90.620	KO4716P	Solid Cover	Card Edge		
90.621	KO4716P	Removable Cover Panel, Tan	Card Edge		
90.622	KO4716P	Removable Cover Panel, Clear	Card Edge		

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 3)	93.001.2	PMA

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





- unused space
- (a) with base mount PCB
- (b) without base mount PCB

Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F) **Flammability Rating:**

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(5) Vertical

(1) Behind cover

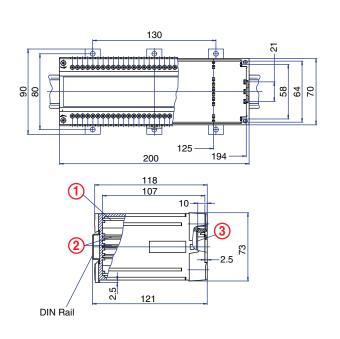
Mounting:

35mm DIN Rail or optional panel mounting*

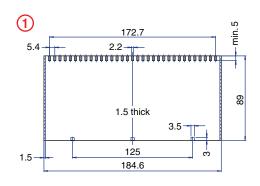
ORDERING INFORMATION					
Part Number	Туре	Description	PCB Connection		
90.680	KO4721P	Solid Cover	Card Edge		
90.681	KO4721P	Removable Cover Panel, Tan	Card Edge		
90.682	KO4721P	Removable Cover Panel, Clear	Card Edge		
ACCESSORIES					

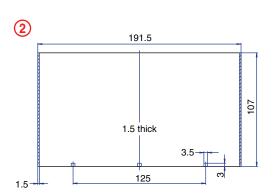
Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M *Panel Mount Tab (need 3) 93.001.2 PMA

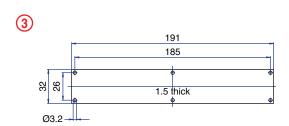
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)









Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3 5

Recommended Torque:

0.8Nm

Max. PCB's:

(11) Vertical

(1) Base Mount

Mounting:

35mm DIN Rail or optional panel mounting*

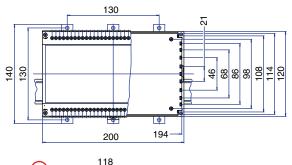
ORDERING INFORMATION	ORD	ERIN	G INF	FORM	MATION
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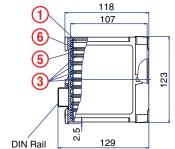
Part Number	r Т уре	Description	PCB Connection
90.710	KO4723SP	Solid Cover	Card Edge

ACCESSORIES

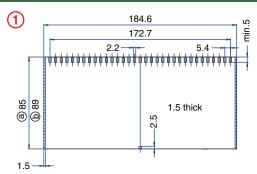
ASSESSOTIES						
Accessories	Part Number	Туре				
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M				
*Panel Mount Tab (need 3)	03 001 2	DMΔ				

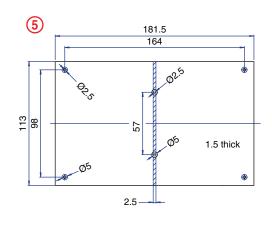
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

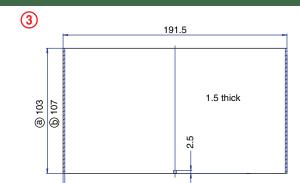


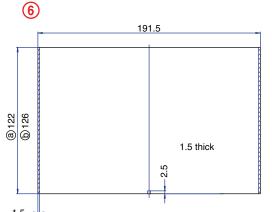


PCB DRAWING (To convert to inches divide by 25.4.)









unused space

- ⓐ with base mount PCB
- **(b)** without base mount PCB

1.5-

Pluggable and Solder Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F) **Flammability Rating:**

UL94 V-O

Color:

Black Housing with Tan Cover

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(11) Vertical

(1) Base Mount

Mounting:

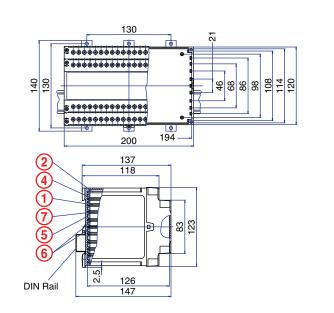
35mm DIN Rail or

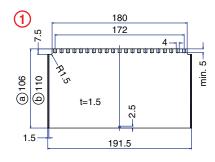
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DDEDING IN		TION

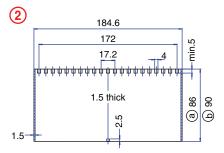
optional panel mounting*

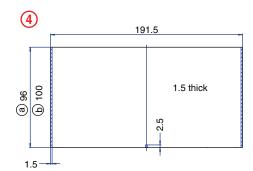
ORDERING INFORMATI	ION	
Part Number Type	Description	PCB Connection
90.740 KO4722DP	Solid Cover	Card Edge/ Wire Jumper
ACCESSORIES		
Accessories	Part Number	Type
1 Meter DIN Rail	CA701/15-S	TS35x15/1M
*Panel Mount Tab (need 3)	93.001.2	PMA

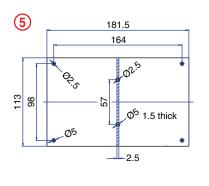
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

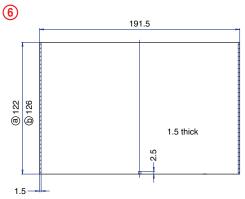


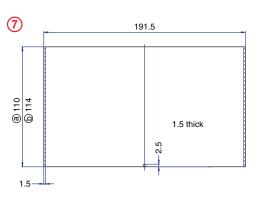












- unused space
- (a) with base mount PCB
- (b) without base mount PCB



Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range: Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Black Housing with Tan Cover

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(11) Vertical

(1) Base Mount

Mounting:

35mm DIN Rail or

optional panel mounting*

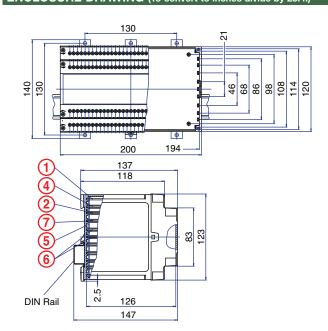
ORDERING	G INFORMATION

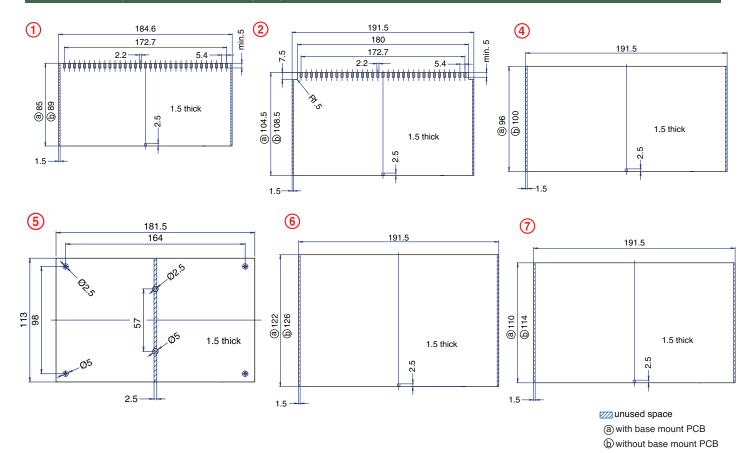
Part Number Type		Description	PCB Connection	
90.770	KO4723DP	Solid Cover	Card Edge	

ACCESSORIES				
Accessories	Part Number	Type		
1 Meter DIN Rail	CA701/15-S	TS35x15/1M		

*Panel Mount Tab (need 3) 93.001.2 PMA

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





with 6 High Current **Terminals**

Solder Connection



TECHNICAL INFORMATION

Electrical:

40A, 300V, 18-8 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Black Housing with Tan Cover

Color:

Flammability Rating: UL94 V-O

Terminal Type:

Box Clamp

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

(2) Horizontal

Mounting:

35mm DIN Rail or

optional panel mounting*

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		(- 11)	MALLUM

Part Number Type Description

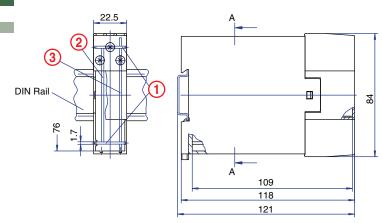
Removable High Current 90.815 KO4734

Wire Jumper Terminals

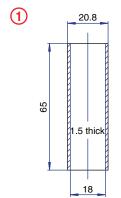
ACCESSORIES

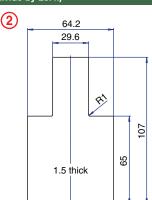
Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.2	PMA

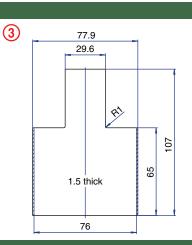
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)









14 Terminal Maximum

Pluggable Card Edge Connection



TECHNICAL INFORMATION

Electrical:

see chart for Amperages, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range: Up to 125°C (257°F)

Flammability Rating: UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

(2) Horizontal

Mounting:

35mm DIN Rail or

optional panel mounting*

COMPLETE ENCLOSURE CONSISTS OF

- (1) Base Housing
- (1) Cover Frame
- (1) Cover Panel
- (2) Terminal or blanking blocks

ORDERING INFORMATION

Part Number	Type	Description
90.810	KO4730H	Base Housing
90.810.1	KO4730F	Cover Frame
90.810.2	KO4730P	Cover Panel, Tan
90.810.3	KO4730P-C	Cover Panel, Clear
90.810.4	KO4730P/S	Cover Panel with terminal release slots, Tan
90.810.5	KO4730P-C/S	Cover Panel with terminal release slots, Clear
90.803	KO473xT/3	Terminal Block, 3 terminals
90.804	KO473xT/4	Terminal Block, 4 terminals
90.807	KO473xT/7	Terminal Block, 7 terminals
90.800	KO473xT/B	Blanking Block, 0 terminals

ACCESSORIES

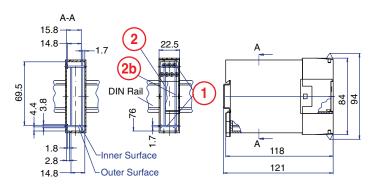
Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.2	PMA

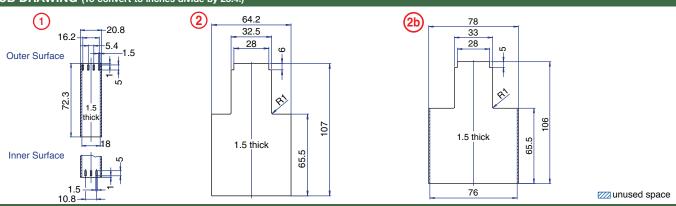
AMPERAGE CHART

Max. Current Carrying Capacity of Terminal Blocks

	3 pole 000	4 pole	7 pole
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom row
Max Amperage Per Terminal Point	5A	8A	5A top row 8A bottom row

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





20 Terminal Maximum

with 6 High Current Terminals
Pluggable Card Edge
Connection/ Solder Connection



TECHNICAL INFORMATION

Electrical:

see chart for Amperages, 300V, 22-12 AWG standard 18-8 AWG high current

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

- (2) Vertical
- (2) Horizontal

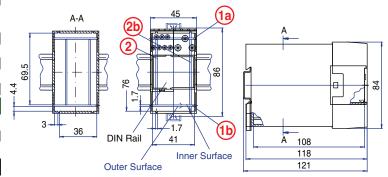
Mounting:

35mm DIN Rail or optional panel mounting*

COMPLETE ENCLOSURE CONSISTS OF

- (1) Base Housing
- (1) Cover Frame
- (1) Cover Panel
- (2) Terminal or blanking blocks
- (2) High current terminal blocks

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



ORDERING INFORMATION

-				
	Part Number	Туре	Description	
ı	90.825	KO4735H	Base Housing	
	90.825.1	KO4735F	Cover Frame	
ı	90.820.2	KO4731/5P	Cover Panel, Tan	
	90.820.3	KO4731/5P-C	Cover Panel, Clear	
	90.820.4	KO4731/5P/S	Cover Panel with terminal	
			release slots, Tan	
	90.820.5	KO4731/5P-C/S		
			release slots, Clear	
ı	90.803	KO473xT/3	Terminal Block, 3 terminals	
	90.804	KO473xT/4	Terminal Block, 4 terminals	
ı	90.807	KO473xT/7	Terminal Block, 7 terminals	
	90.800	KO473xT/B	Blanking Block, 0 terminals	
	90.808	KO473xHCT	High Current Block, 3 terminals	
	90.820.4 90.820.5 90.803 90.804 90.807 90.800	KO4731/5P/S KO4731/5P-C/S KO473xT/3 KO473xT/4 KO473xT/7 KO473xT/B	Cover Panel with terminal release slots, Tan Cover Panel with terminal release slots, Clear Terminal Block, 3 terminals Terminal Block, 4 terminals Terminal Block, 7 terminals Blanking Block, 0 terminals	

ACCESSORIES

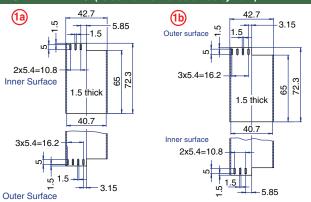
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.2	PMA

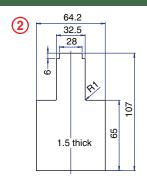
AMPERAGE CHART

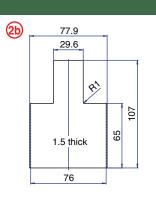
Max. Current Carrying Capacity of Terminal Blocks

	3 pole	4 pole	7 pole	High Current
	000	0000	000 0000	00
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom rov	, 40A
Max Amperage Per Terminal Point	8A	8A	5A top row 8A bottom row	40A

PCB DRAWING (To convert to inches divide by 25.4.)









28 Terminal Maximum

Pluggable Card Edge Connection



TECHNICAL INFORMATION

Electrical:

see chart for Amperages, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

(2) Horizontal

Mounting:

35mm DIN Rail or optional panel mounting*

ORDERING INFORMATION

	Part Number	Туре	Description
	90.820	KO4731H	Base Housing
	90.820.1	KO4731F	Cover Frame
	90.820.2	KO4731/5P	Cover Panel, Tan
	90.820.3	KO4731/5P-C	Cover Panel, Clear
	90.820.4	KO4731/5P/S	Cover Panel with terminal
			release slots, Tan
	90.820.5	KO4731/5P-C/S	Cover Panel with terminal
			release slots, Clear
	90.803	KO473xT/3	Terminal Block, 3 terminals
	90.804	KO473xT/4	Terminal Block, 4 terminals
	90.807	KO473xT/7	Terminal Block, 7 terminals
	90.800	KO473xT/B	Blanking Block, 0 terminals

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.2	PMA

AMPERAGE CHART

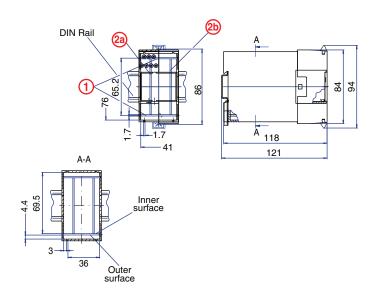
Max. Current Carrying Capacity of Terminal Blocks

	3 pole 000	4 pole	7 pole
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom row
Max Amperage Per Terminal Point	5A	8A	5A top row 8A bottom row

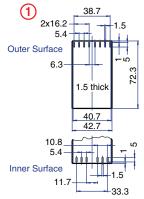
COMPLETE ENCLOSURE CONSISTS OF

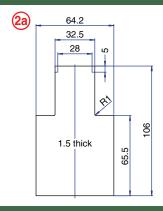
- (1) Base Housing
- (1) Cover Frame
- (1) Cover Panel
- (4) Terminal or blanking blocks

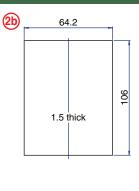
ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)







34 Terminal Maximum

with 6 High Current Terminals

Pluggable Card Edge Connection/ Solder Connection



TECHNICAL INFORMATION

Electrical:

see chart for Amperages, 300V, 22-12 AWG standard 18-8 AWG high current

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Part Number

90.830

90.803

90.804

90.807

90.800

90.808

90.830.6

Black Housing with Tan Cover **ORDERING INFORMATION**

Type

KO4732/6H

KO473xT/3

KO473xT/4

KO473xT/7

KO473xT/B

KO473xHCT

KO4736F

Terminal Type:

Box clamp

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

- (3) Vertical
- (2) Horizontal
- (1) Parallel with cover

Mounting:

Description

Base Housing

Center Cover

35mm DIN Rail or optional panel mounting*

Terminal Block, 3 terminals

Terminal Block, 4 terminals

Terminal Block, 7 terminals

Blanking Block, 0 terminals

High Current Block, 3 terminals

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

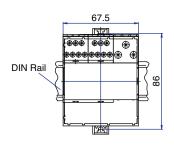
COMPLETE ENCLOSURE CONSISTS OF

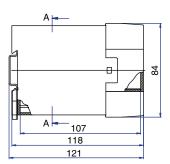
(1) Base Housing

(1) Center Cover

(4) Terminal or blanking blocks

(2) High current terminal blocks



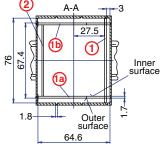


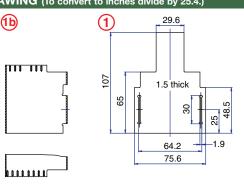
ACCESSORIES Accessories **Part Number** Туре 1 Meter DIN Rail 2511120/1M 35x7.5/1M *Panel Mount Tab (need 2) 93.001.2 **PMA**

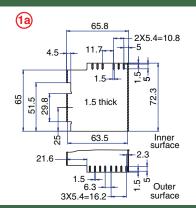
AMPERAGE CHART

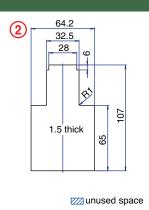
Max. Current Carrying Capacity of Terminal Blocks

	3 pole	4 pole	•	High Current
	000	0000	000	00
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom row	v 40A
Max Amperage Per Terminal Point	8A	8A	5A top row 8A bottom row	, 40A











40 Terminal Maximum

with 12 High Current Terminals

Pluggable Card Edge Connection/ Solder Connection



TECHNICAL INFORMATION

Electrical:

see chart for Amperages, 300V, 22-12 AWG standard 18-8 AWG high current

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

- (4) Vertical
- (2) Horizontal
- (1) Parallel with cover

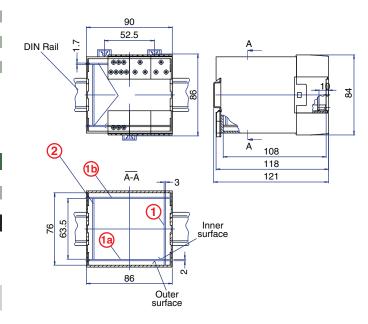
Mounting:

35mm DIN Rail or optional panel mounting*

COMPLETE ENCLOSURE CONSISTS OF

- (1) Base Housing
- (1) Center Cover
- (4) Terminal or blanking blocks
- (4) High current terminal blocks

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



ORDERING INFORMATION

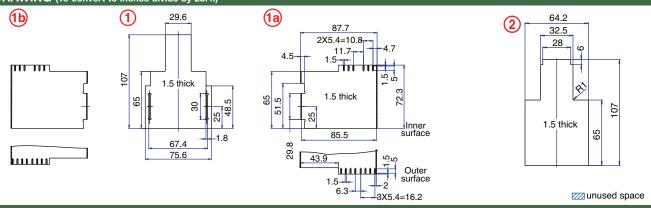
Part Number	Туре	Description
90.845	KO4737H	Base Housing
90.845.6	KO4737F	Center Cover
90.803	KO473xT/3	Terminal Block, 3 terminals
90.804	KO473xT/4	Terminal Block, 4 terminals
90.807	KO473xT/7	Terminal Block, 7 terminals
90.800	KO473xT/B	Blanking Block, 0 terminals
90.808	KO473xHCT	High Current Block, 3 terminals

ACCESSORIES Accessories **Part Number** Туре 2511120/1M 1 Meter DIN Rail 35x7.5/1M Panel Mount Tab (need 2) 93.001.2

AMPERAGE CHART

Max. Current Carrying Capacity of Terminal Blocks

	3 pole 000	4 pole	000	High Current
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom row	, 40A
Max Amperage Per Terminal Point	8A	8A	5A top row 8A bottom row	40A



42 Terminal Maximum

Pluggable Card Edge Connection



TECHNICAL INFORMATION

Electrical:

see chart for Amperages, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box clamp

Terminal Screw Size:

M3 5

Recommended Torque:

0.8Nm

Max. PCB's:

- (3) Vertical
- (2) Horizontal
- (1) Parallel with cover

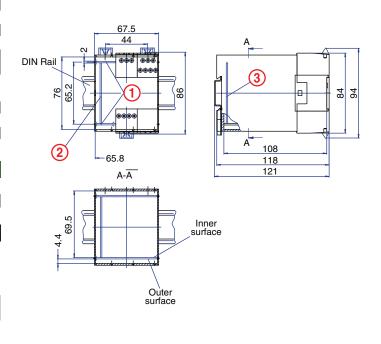
Mounting:

35mm DIN Rail or optional panel mounting*

COMPLETE ENCLOSURE CONSISTS OF

- (1) Base Housing
- (1) Cover Frame
- (1) Cover Panel
- (6) Terminal or blanking blocks

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



ORDERING INFORMATION

Part Number	Type	Description
90.830	KO4732/6H	Base Housing
90.830.1	KO4732F	Cover Frame
90.830.2	KO4732P	Cover Panel, Tan
90.830.3	KO4732P-C	Cover Panel, Clear
90.830.4	KO4732P/S	Cover Panel with terminal
		release slots, Tan
90.830.5	KO4732P-C/S	Cover Panel with terminal
		release slots, Clear
90.803	KO473xT/3	Terminal Block, 3 terminals
90.804	KO473xT/4	Terminal Block, 4 terminals
90.807	KO473xT/7	Terminal Block, 7 terminals
90.800	KO473xT/B	Blanking Block, 0 terminals

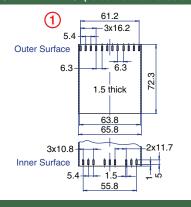
ACCESSORIES

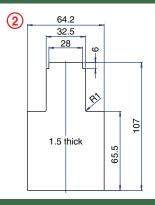
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 2)	93.001.2	PMA

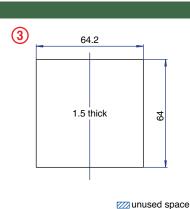
AMPERAGE CHART

Max. Current Carrying Capacity of Terminal Blocks

	3 pole	4 pole	7 pole
	000	0000	000 0000
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom row
Max Amperage Per Terminal Point	5A	8A	5A top row 8A bottom row









56 Terminal Maximum

Pluggable Card Edge Connection



TECHNICAL INFORMATION

Electrical:

see chart for Amperages, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O (V-2 Clear Panel)

Color:

Black Housing with Tan Cover

Terminal Type:

Box clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

- (4) Vertical
- (2) Horizontal
- (1ea.) Parallel with/

behind cover

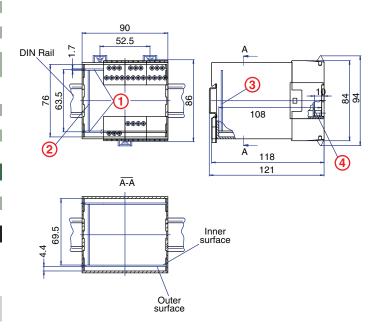
Mounting:

35mm DIN Rail or optional panel mounting*

COMPLETE ENCLOSURE CONSISTS OF

- (1) Base Housing
- (1) Cover Frame
- (1) Cover Panel
- (8) Terminal or blanking blocks

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



ORDERING INFORMATION

Part Number	Туре	Description
90.840	KO4733H	Base Housing
90.840.1	KO4733F	Cover Frame
90.840.2	KO4733P	Cover Panel, Tan
90.840.3	KO4733P-C	Cover Panel, Clear
90.840.4	KO4733P/S	Cover Panel with terminal
		release slots, Tan
90.840.5	KO4733P-C/S	Cover Panel with terminal
		release slots, Clear
90.803	KO473xT/3	Terminal Block, 3 terminals
90.804	KO473xT/4	Terminal Block, 4 terminals
90.807	KO473xT/7	Terminal Block, 7 terminals
90.800	KO473xT/B	Blanking Block, 0 terminals

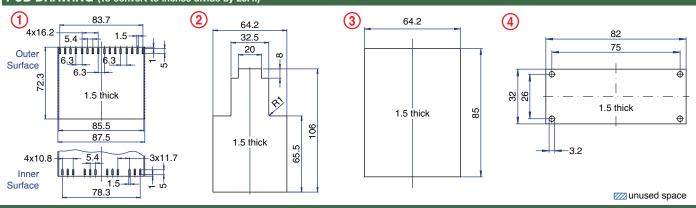
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab (need 2)	93.001.2	PMA

AMPERAGE CHART

Max. Current Carrying Capacity of Terminal Blocks

	3 pole 000	4 pole	7 pole
Max Amperage of Terminal Blocks	15A	28A	15A top row 28A bottom row
Max Amperage Per Terminal Point	5A	8A	5A top row 8A bottom row





The K70 series enclosures are small to medium in size and offer cost effective solutions for many applications.

They can accommodate 8 to 32 terminals for field wire connections. Pressure plate terminals are standard with both the fixed and pluggable versions.

MATERIALS

Housing

Housing Shell: Polycarbonate, 10% Glass-filled Housing Cover: Polycarbonate, 10% Glass-filled

Terminals

Pressure Plate: Chromated Steel Terminal Screw: Chromated Steel Connector Contact: Tin Plated Bronze

Temperature Rating: 125°C (257°F) UL94VO

Standard Color: Light Gray

PROTECTION

K7O enclosures have an IP10 rating (hand protected). By using optional terminal covers the protection rating can be increased to IP20 (finger protected). VBG4 and other European accident prevention requirements are met.

CONSTRUCTION

The K70 enclosures are supplied as unassembled kits. Each kit consists of a housing shell and a snap-on cover, complete with integral terminals and terminal-to-board connection provisions. Integral printed circuit board guides are molded into the housing shell to save time when inserting boards, to prevent misconnections and to keep the boards in place. Integral tabs on the bottom of the shell further help to hold the boards in place and eliminate lateral movement and warpage.

Printed circuit boards can be mounted in three ways:

- Vertically
- Horizontally
- Behind the Front Cover

Boards can be placed vertically (perpendicular to the DIN rail) and/or horizontally (parallel with the DIN rail). Enclosures with plug-in covers can accept an additional board mounted directly behind the front cover. This board is ideal for mounting indicating devices such as LEDs, LCDs for monitoring, switches and potentiometers for setting and adjusting purposes. The housing cover snaps onto the housing shell. Two tabs lock the cover firmly in place. Removal of the cover is possible for service and repair. Potting is possible.

The K70 housing covers have external and internal barriers between terminals to increase creepage distance and to help prevent accidental touching of live potentials that may be present. Optional terminal covers that decrease the size of the opening are available as accessories.

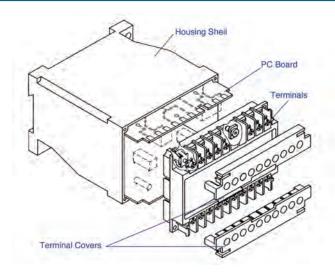


TERMINALS

Pressure Plate terminals with either fixed or pluggable terminal-to-board connections are offered in the K70 enclosures. The pressure plate, which is captive to the terminal screw, automatically rises when the screw is loosened. One or two wires of equal or different sizes up to $2.5 \, \mathrm{mm^2}$ (14 AWG) can be terminated in each terminal. The grooved corners of the pressure plate ensure positive wire retention. The flat bottom of the terminal extends to the inside of the enclosure and provides the terminal-to-board connection. The terminal screws can be turned by a flat tip or a #2 Phillips screwdriver.

Upon request, terminals can be loaded in selected positions only.





TERMINAL-TO-BOARD CONNECTIONS

The K70 series offers fixed and pluggable terminal-to-board connection possibilities.

Fixed Connections

Fixed terminal-to-board connections can be made by Wire Jumper, Fast On tabs or Machine Solderable Pins (K7022.5C only).

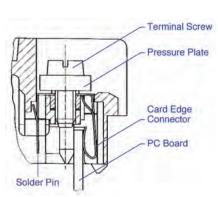
Fast On tabs, (2.8 x 0.8 mm) accept industry standard Fast On connectors crimped onto wire jumpers.

Wire Jumper connections can also be made by soldering a wire jumper between the center holes of the Fast On tab and the printed circuit board(s).

Machine Solderable Pins (offered only with type K7022.5C) can be removed from the enclosure and machine soldered to the board in the same step as other components, saving assembly time.

Pluggable Connections

Pluggable terminal-to-board connections are made by using **Card Edge** connectors. They are an integral part of the covers



of K7075P, K70100P and K70150P and bug directly onto the board(s). **Solder Pins** are also provided in these enclosures for terminal-to-board connections when mounting an additional board directly behind the front cover. A **Wire Jumper** can be soldered to these pins as well.

For better retention, the plug-in type covers have captive screws at the corners that insert into brass bushings, molded into the housing shell. The pluggable versions are ideal whenever quick connections and replacement are important. They also reduce the danger of misconnected wires and downtime.

MOUNTING

The K70 Enclosures mount easily by snapping onto standard 35mm DIN Rail. Many can also be panel mounted using corner mounting holes which accept two M4 or M5 (#6 or #10) screws. These mounting holes are molded into two corners of the housing shell base and do not increase the height or width of the enclosure, thus insuring a compact, high density arrangement when multiple enclosures are installed adjacent to each other. Enclosure types K7022.5A, K7022.5B and K7022.5C have two integral pull-out tabs on the base of the enclosure for panel mounting. (Refer to Enclosure Mounting Procedures on page 49.)



MARKING

The K70 enclosures have an area on the front of the cover for marking and mounting of components such as switches, potentiometers, LEDs or LCD indicators. Custom imprinted plates can be inserted as well, allowing imprinting of plates separate from the enclosure, reducing cost and delays.

ACCESSORIES

- 35 x 7.5 mm DIN Rail
- Terminal Covers
- Pull-Out Panel Mounting Tabs.

CUSTOMIZATION

Enclosures can be customized with cutouts and holes for potentiometers, switches, LEDs, LCDs and other devices. Using state of the art machining, we can punch, drill or cut to your most exacting specifications. Custom colors and special markings are also available. Please let us know what your requirements are.





TECHNICAL INFORMATION

Electrical:

25A, 300V, 24-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M2.5

Recommended Torque:

0.8Nm

PCB Locations:

(2) Vertical

Mounting:

35mm DIN Rail or

panel mount

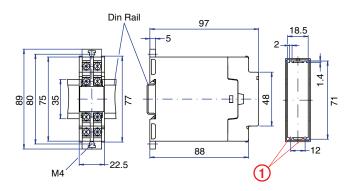
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
90.001	K7022.5A	Double Level	Wire Jumper/
		Terminals	Fast On

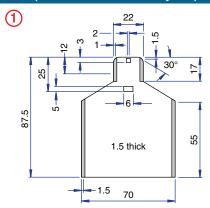
ACCESSORIES

Accessories	Part Number	Туре
DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Covers*	90 001 1/90 001 2	K7022 5A/TC1 TC2

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



* Note: Need one of each Terminal Cover.

unused space

10 Terminal

Solder/Tab Connection



TECHNICAL INFORMATION

Electrical:

25A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(10) Vertical

Mounting:

35mm DIN Rail or

panel mount

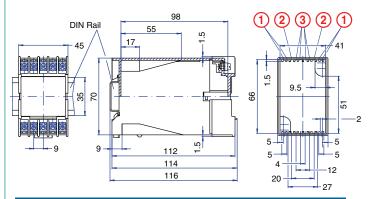
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
90.010	K7045C	Single Level	Wire Jumper/
		Terminals	Fast On

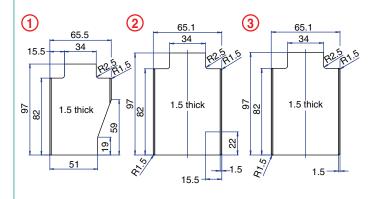
ACCESSORIES

Accessories	Part Number	Туре	
DIN Rail	2511120/1M	TS35x7.5/1M	
Terminal Cover**	90.010.1	K7045C/TC1	

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



** Note: One piece Teminal Cover covers both sides.

unused space





TECHNICAL INFORMATION

Electrical:

20A, 300V, 24-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M2.5

Recommended Torque:

0.8Nm

PCB Locations:

(2) Vertical

Mounting:

35mm DIN Rail or panel mount

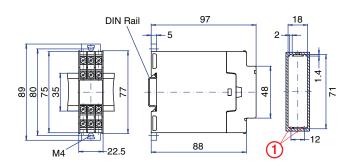
O	RD	ERI	ING	INF	OR	MAT	ION

Part Number	Type	Description	PCB Connection
90.020	K7022.5B	Double Level	Wire Jumper/
		Terminals	Fast On

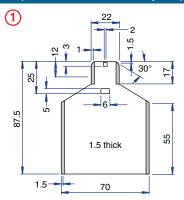
ACCESSORIES

Accessories	Part Number	Type
DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Covers*	90.020.1/90.020.2	K7022.5BTC1/TC2

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



* Note: Need one of each Terminal Cover.

unused space

12 Terminal **Solder Connection**



TECHNICAL INFORMATION

Electrical:

20A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(2) Vertical

Mounting:

35mm DIN Rail or

panel mount

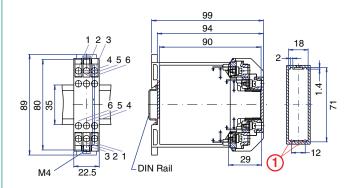
ORDERING INFORMATION

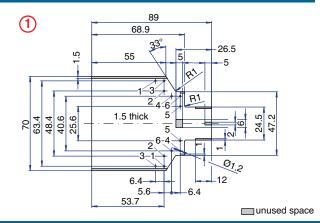
Part Number	Туре	Description	PCB Connection
90.030	K7022.5C	Shrouded Double	Wire Jumper/
		Level Terminals	Machine Solderable Pins

ACCESSORIES

Accessories	Part Number	Type
DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







TECHNICAL INFORMATION

Electrical:

25A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(5) Vertical

(1) Behind Cover

Mounting:

35mm DIN Rail

16 TerminalPluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M3 5

Recommended Torque:

0.8Nm

PCB Locations:

- (7) Vertical (6) Horizontal
- (1) Behind Cover

Mounting:

35mm DIN Rail or panel mount

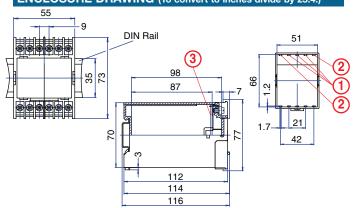
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
90.040	K7055	Single Level	Wire Jumper/
		Terminals	Fast On

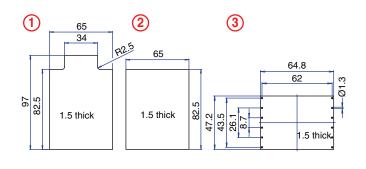
ACCESSORIES

Accessories	Part Number	Type
DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Covers*	90 040 1	K7055/TC1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



* Note: Need two Terminal Covers.

unused space

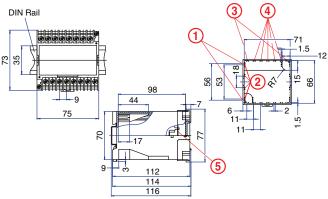
ORDERING INFORMATION

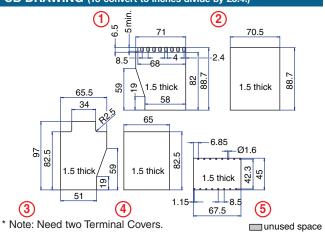
Part Numbe	r Type	Description	PCB Connection
90.050	K7075P	Single Level	Wire Jumper/
		Terminals	Solder Pin/ Card Edge

ACCESSORIES

Accessories	Part Number	Туре
DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover*	90 050 1	K7075P/TC1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Pluggable Connection (DIN Rail Mount Only)



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(7) Vertical (6) Horizontal

(1) Behind Cover

Mounting:

35mm DIN Rail

20 Terminal Solder/Tab Connection



TECHNICAL INFORMATION

Electrical:

25A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

ecomi 0 8Nm

PCB Locations:

(10) Vertical

Mounting:

35mm DIN Rail or

panel mount

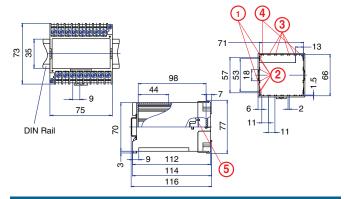
ORDERING INFORMATION

I	Part Number	Type	Description	PCB Connection
	90.050.5	K7075P	Single Level	Wire Jumper/
			Terminals	Solder Tab/ Card Edge

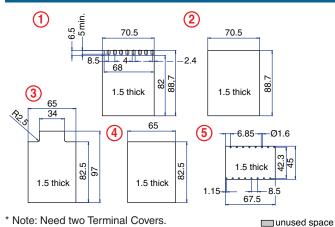
ACCESSORIES

Accessories	Part Number	Type
DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Covers*	90.050.1	K7075P/TC1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

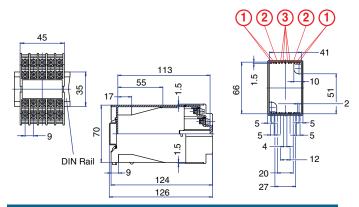


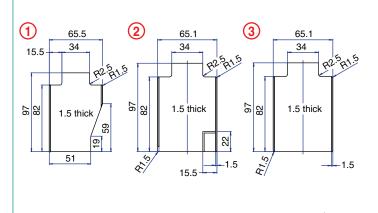
PCB DRAWING (To convert to inches divide by 25.4.)



ORDERING INFORMATION Part Number Type Description **PCB Connection** Double Level 90.060 K7045D1 Wire Jumper/ **Terminals** Fast On **ACCESSORIES** Accessories **Part Number** Type **DIN Rail** 2511120/1M TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







TECHNICAL INFORMATION

Electrical:

25A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Terminal Screw Size:

Recommended Torque:

(10) Vertical

Mounting:

35mm DIN Rail or

Pressure Plate

0.8Nm

PCB Locations:

panel mount

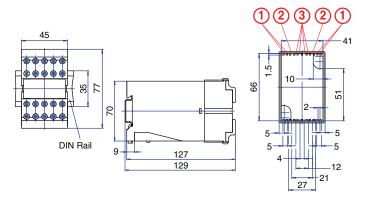
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
90.070	K7045D2	Shrouded Double	Wire Jumper/
		Level Terminals	Fast On

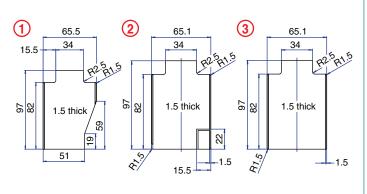
ACCESSORIES

Accessories	Part Number	Туре
DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Covers*		

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



* Note: Integral Terminal Covers.

unused space

20 Terminal

Solder/Tab Connection



TECHNICAL INFORMATION

Electrical:

25A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(4) Vertical (6) Horizontal

Mounting:

35mm DIN Rail or panel mount

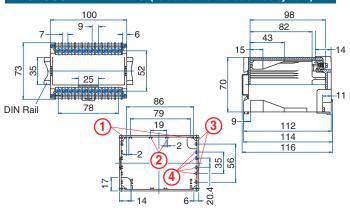
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
90.080	K70100A	Single Level	Wire Jumper/
		Terminals	Fast On

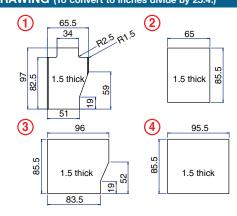
ACCESSORIES

Accessories	Part Number	Туре
DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover**	90.080.1	K70100/TC1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



** Note: Need two Terminal Covers.

munused space



Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M3 5

Recommended Torque:

0.8Nm

PCB Locations

(4) Vertical (6) Horizontal

(1) Behind Cover

Mounting:

35mm DIN Rail or panel mount

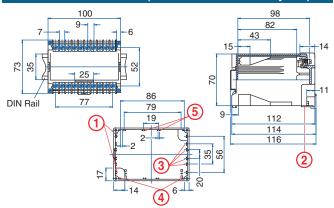
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
90.090	K70100P	Single Level	Wire Jumper/
		Terminals	Solder Pin/ Card Edge

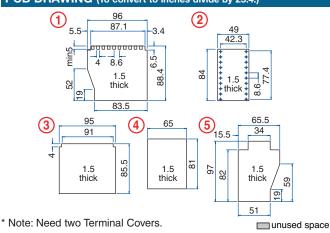
ACCESSORIES

Accessories	Part Number	Type
DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Covers*	90.080.1	K70100/TC1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



32 Terminal

Pluggable Connection



TECHNICAL INFORMATION

Electrical:

10A. 300V. 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Cover Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations

- (9) Vertical (6) Horizontal
- (1) Behind Cover

Mounting:

35mm DIN Rail or panel mount

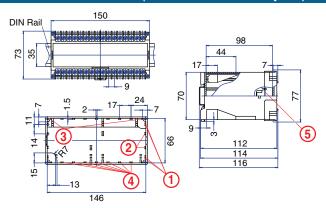
ORDERING INFORMATION

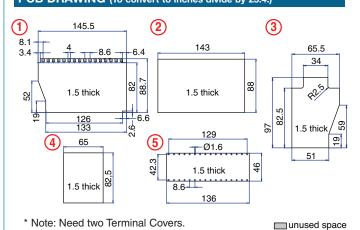
Part Number	Туре	Description	PCB Connection
90.100	K70150P	Single Level	Wire Jumper/
		Terminals	Solder Pin/ Card Edge

ACCESSORIES

Accessories	Part Number	Туре
DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover*	90.100.1	K70150P/TC1

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Versatile, compact enclosures are ideal for applications with space constraints and for mounting within large international style enclosures with 45mm (1.77 in.) cutouts, such as Altech's EK and AK series nonmetallic enclosures. Small to medium in size, KU4000 enclosures offer 8 to 64 terminals for field wire connections. Pressure plate or spring cage terminals are standard. The KU4000 series are equipped with double level terminals which provide a maximum number of external connections in a minimal amount of space. Standard enclosures are supplied as kits, containing the base, cover and the maximum number of terminals.

MATERIALS

Housing

Housing Shell: Polycarbonate, 10% Glass Filled Base: Polycarbonate, 10% Glass Filled

Terminals

Terminal Pins: Tinned Steel Pressure Plate: Chromated Steel Terminal Screws: Chromated Steel Spring Clamps: Stainless Steel

Temperature Rating: 110°C (230°F) UL94VO

Standard Color: Light Gray

PROTECTION

KU4000 enclosures have an IP20 rating (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KU4000 series housings are supplied as 1 unassembled kits. Each kit consists of a flat base, a housing cover and 8, 16, 24, 32, 48 or 64 terminals. Double terminals keep the enclosure size to a

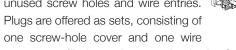
minimum, and yet, due to the innovative housing design, relatively large components can be mounted inside.

The terminals are machine solderable and have straight or right angle pins, depending on enclosure type (Type C has straight pins, Type B has right angle pins). We can also supply enclosures with fewer than the maximum number of terminals, please contact us with your requirements.

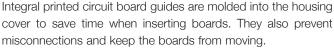
The KU4000 series are available in five widths, and are supplied with terminals in three standard positions:

- Terminals on top and bottom
- Terminals on one side only
- Terminals at both ends, the center area has no terminals.

Cover plugs are available accessories and can be plugged into unused screw holes and wire entries. Plugs are offered as sets, consisting of



entry cover (Refer to Accessories in the Ordering Pages).



Printed circuit boards can be mounted in three ways:

- Horizontally, parallel with the base
- Vertically, perpendicular to the base
- Vertically, parallel with the DIN rail

One large board can be mounted against the base of the enclosure (parallel with the base) using terminals with straight solder pins. Boards can also be mounted vertically (perpendicular to the base) by using terminals with right angle solder pins, or vertically (parallel with the DIN rail) by using a wire jumper connection.

(Refer to the Ordering Pages).

The face of the cover is 45mm (1.77 in.) high, and can be mounted into standard DIN distribution systems which have 45mm cutouts like Altechs EK and AK series of industrial enclosures. Mount the KU4000 enclosures together with circuit breakers and other DIN rail



KU4011B

KU4012C

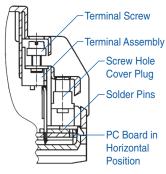
EK Series Industrial Enclosure

mount devices which also meet the 45mm standard. Removal of the housing cover is possible for service and repair after disconnecting the wires. KU4000 covers cannot be potted without taking special steps.



TERMINALS

Pressure plate terminals are standard for the KU4000 enclosure and ensure a vibration proof connection. The pressure plate, which is captive to the terminal screw, automatically rises when the screw is loosened. One or two wires of equal or different sizes up to 2.5mm² (14 AWG) can be terminated in each terminal. The grooved corners of the



pressure plate ensure positive retention of the wires. The flat bottom of the terminal extends to the inside of the enclosure and provides the terminal-to-board connection. The terminal screws can be turned by a flat tip or a #2 Pozidriv screwdriver.

The KU4000 series is also available with spring cage terminals. The terminal is opened by appling pressure with a screwdriver to open the clamp. Once the wire is inserted, the screwdriver is removed, creating a vibration proof connection to the wire.

TERMINAL-TO-BOARD CONNECTIONS

The KU4000 series offers several fixed terminal-to-board connection possibilities. (Refer to the Ordering Pages for connection types.)

Wire Jumper connections can be made by soldering a wire jumper between the center hole of the right angle solder pins and the printed circuit board(s). Upon soldering, the board is installed into the enclosure complete with terminals and other components.

All KU4000 terminals have *Machine Solderable Pins*, which can be machine soldered to the board(s) in the same step as the other components, saving assembly time.

MOUNTING

The KU4000 enclosures snap onto standard 35mm DIN rail or can be panel mounted. Mount one or several enclosures together, or mix them with other DIN rail mounted devices such as terminal blocks, circuit breakers, etc. The choice is yours.

MARKING

The KU4000 series have large marking areas on the front of the cover

ACCESSORIES

- Cover Plugs for Screw Hole and Wire Entries
- Screws for Mounting Printed Circuit Board
- Pull-Out Panel Mounting Tabs
- 35mm DIN Rail

CUSTOMIZATION

We can supply the KU4000, series enclosure kits with the exact number of terminals to requirements. meet your can Enclosures also he customized with cutouts and holes. Custom colors and special markings are also available.



Enclosure Mounting Procedures

DIN Rail Mounting

The top of the enclosure base has notches molded onto the sides. The bottom of the base has one spring-loaded tab that is factory installed into a molded guide for DIN rail mounting.

When mounting, tilt the bottom of the enclosure slightly away from the rail until the notches grab onto the top flange of the DIN rail. Push the bottom of the enclosure forward towards the DIN rail. The spring-loaded tab will snap onto the bottom of the rail and hold the enclosure firmly in place.



To remove the enclosure from the DIN rail, insert a screwdriver into the exposed slot in the tab and pull the tab down. Pull enclosure forward and remove from the rail.

Panel Mounting

To mount enclosures on a panel or any flat surface, at least one tab must be in place on the top and on the bottom of the enclosure base in the panel mount position. Standard enclosures are supplied with one tab on the bottom for DIN rail mounting.

Install one or more additional tabs (see Accessories in the Ordering Pages) into molded tab guides on the back of the enclosure base. Move the pre-installed bottom tab from the DIN rail position to the panel mount position.

To move the tab, insert a screwdriver under the spring pin, lift it and pull the tab forward until it extends approximately 6mm(.25 in.) from the enclosure. Release pin and lock the tab in the panel mount position.

We can supply the enclosures already set up for panel mounting if desired. (*Please specify when ordering*).

Vertical PCB **Screw Clamp**



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.201	KU4001B	Right Angle Pins	Machine Solder/
			Wire Jumper

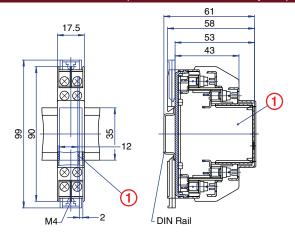
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Mira Entry Cover Dlue Cat		

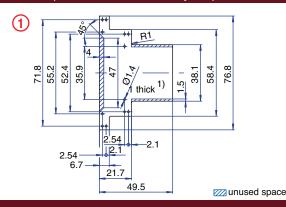
Wire-Entry Cover Plug Set

*Panel Mount Tab PMA/KU 93.001.5

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



8 Terminal

Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or

optional panel mounting*

PMA/KU

ORDERING INFORMATION

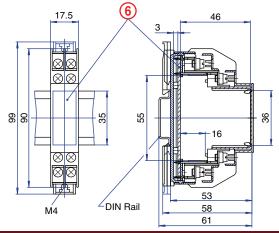
Part Number	Type	Description	PCB Connection
91.202	KU4001C	Straight Pins	Machine Solder

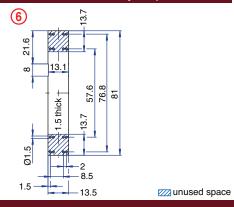
ACCESSORIES

*Panel Mount Tab

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Set		

93.001.5 ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Vertical PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate **Temperature Range:**

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(1) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

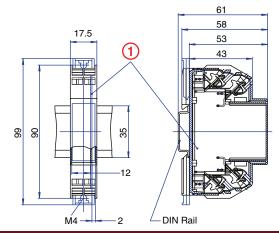
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Part Number		Type	Description	PCB Connection	
	91.501	KU4037B	Right Angle Pins	Machine Solder/	
				Wire Jumper	

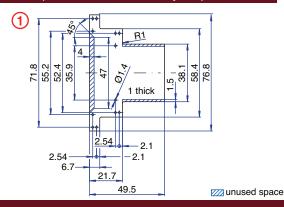
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



8 Terminal

Horizontal PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or optional panel mounting*

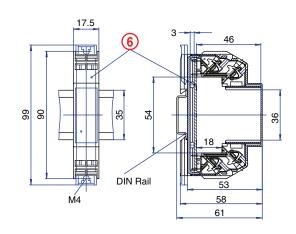
ORDERING INFORMATION

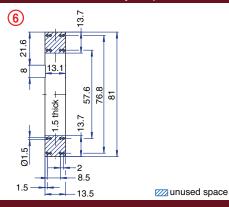
Part Number	Туре	Description	PCB Connection	
91.502	KU4037C	Straight Pins	Machine Solder	

ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Tall Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical: 16A, 300V, 22-14 AWG Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O **Color:**

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

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Part Number	Туре	Description	PCB Connection
91.203	KU4001BT	Right Angle Pins	Machine Solder/
			Wire Jumper

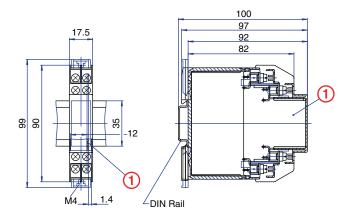
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC

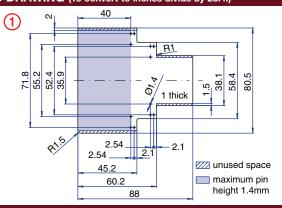
Wire-Entry Cover Plug Set

*Panel Mount Tab 93.001.5 PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



8 Terminal

Tall Vertical PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

_

Recommended Torque:

_

Max. PCB's:

(1) Vertical

Mounting:

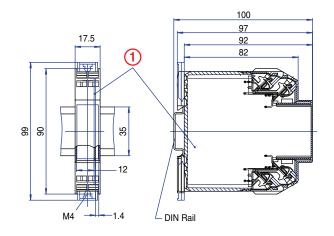
35mm DIN Rail or optional panel mounting*

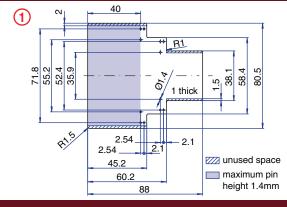
optional parior mounting

ORDERING INFORMATION							
Part Number	Type	Description	PCB Connection				
91.503	KU4037BT	Right Angle Pins	Machine Solder/ Wire Jumper				
ACCESSORIES							

Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M *Panel Mount Tab 93.001.5 PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







with 8 Standard and 4 High Current Terminals Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

Standard Terminal: 16A, 300V, 22-14 AWG High Current Terminal: 50A, 300V, 18-8 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O **Color:**

Light Gray

Terminal Type:

Standard: Screw/Pressure Plate High Current: Box Clamp

Terminal Screw Size:

M3.5 / M4

Recommended Torque:

0.8Nm/1.2Nm

Max. PCB's:

(1) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

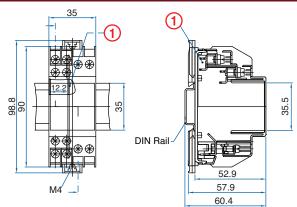
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Part Number Typ		r Type	Description	PCB Connection		
	91.710	KU4088BHC	Right Angle Pins	Machine Solder/ Wire Jumper		

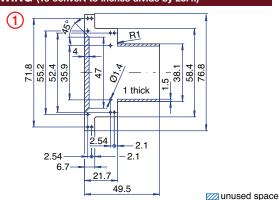
ACCESSORIES

Accessories		Part Number	Туре
1 M	eter DIN Rail	2511120/1M	TS35x7.5/1M
Scr	ew-hole and	91.201.1	SHPC
Wire	-Entry Cover Plug S	Set	
*Pan	el Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



12 Terminal with 8 Standard and 4 High Current Terminals

Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

Standard Terminal: 16A, 300V, 22-14 AWG High Current Terminal: 50A, 300V, 18-8 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Standard: Screw/Pressure Plate High Current: Box Clamp

Terminal Screw Size:

M3.5 / M4

Recommended Torque:

0.8Nm/1.2Nm

Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or optional panel mounting*

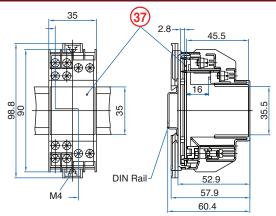
ORDERING INFORMATION

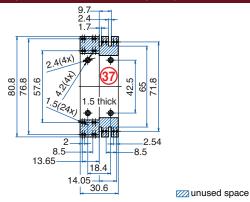
Part Numb	er Type	Description	PCB Connection		
91.720	KU4088CHC	Straight Pins	Machine Solder		

ACCESSORIES

	ACCECCOTILES						
	Accessories	Part Number	Туре	Ī			
	1 Meter DIN Rail	2511120/1M	TS35x7.5/1M				
	Screw-hole and	91.201.1	SHPC				
Wire-Entry Cover Plug Set							
	*Donal Mount Tab	02 001 E	DMA /ZII				

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.240	KU4002B	Right Angle Pins	Machine Solder/
			Wire Jumper

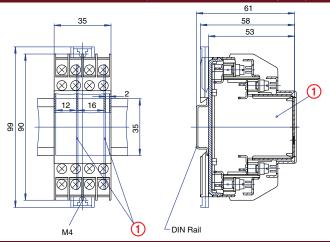
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC

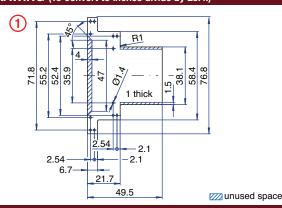
Wire-Entry Cover Plug Set

*Panel Mount Tab 93.001.5 PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



16 Terminal

Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or

optional panel mounting*

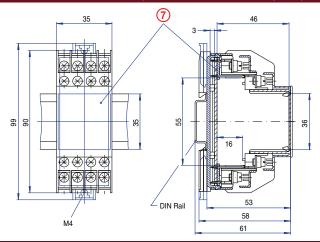
ORDERING INFORMATION

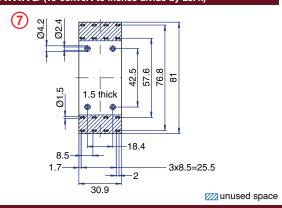
Part Number	Туре	Description	PCB Connection
91.220	KU4002C	Straight Pins	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре				
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M				
Screw-hole and	91.201.1	SHPC				
Wire-Entry Cover Plug Set						
*Panel Mount Tab	93.001.5	PMA/KU				

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Vertical PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

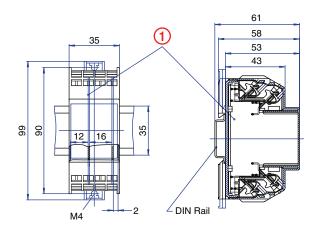
	0	RC)ER	ING	INF	ORI	MAT	ION
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Part Number	Туре	Description	PCB Connection
91.540	KU4038B	Right Angle Pins	Machine Solder/
			Wire Jumper

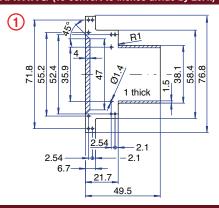
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

16 Terminal

Horizontal PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating: UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or

optional panel mounting*

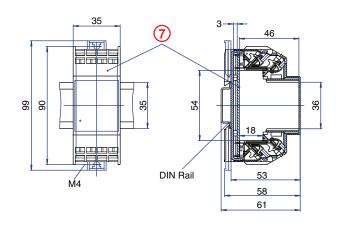
ORDERING INFORMATION

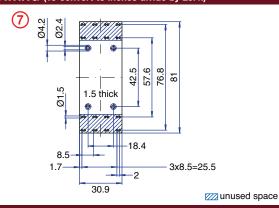
Part Number	Type	Description	PCB Connection
91.520	KU4038C	Straight Pins	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Tall Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.243	KU4002BT	Right Angle Pins	Machine Solder/
			Wire Jumper

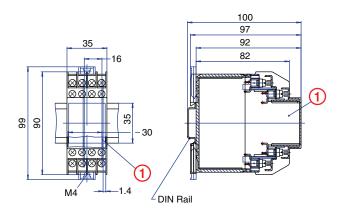
ACCESSORIES

	Accessories	Part Number	Type	
	1 Meter DIN Rail	2511120/1M	TS35x7.5/1M	
	Screw-hole and	91.201.1	SHPC	
	Wire-Entry Cover Plug 9	Sat		

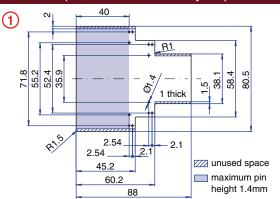
Vire-Entry Cover Plug Set

*Panel Mount Tab 93.001.5 PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



16 Terminal

Tall Vertical PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

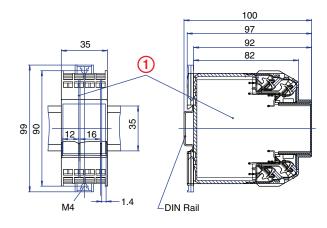
ORDERING INFORMATION

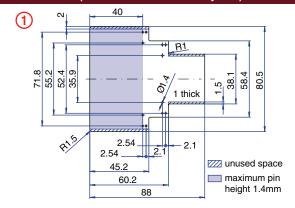
Part Number	Type	Description	PCB Connection
91.543	KU4038BT	Right Angle Pins	Machine Solder/
			Wire Jumper

ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93 001 5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(3) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

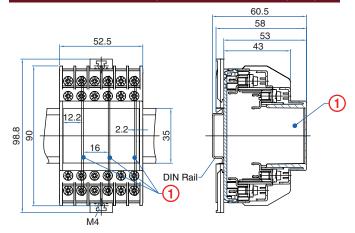
		MATI	

Part Number	Type	Description	PCB Connection
91.440	KU4084B	Right Angle Pins	Machine Solder/
			Wire Jumper

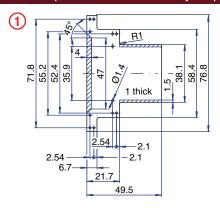
ACCESSORIES

Accessories	Part Number	Туре				
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M				
Screw-hole and	91.201.1	SHPC				
Wire-Entry Cover Plug Set						
*Panel Mount Tab	93.001.5	PMA/KU				

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

24 Terminal

Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F) Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate **Terminal Screw Size:**

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or

optional panel mounting*

ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
01 420	KIIMOMO	Straight Ding	Machina Saldar

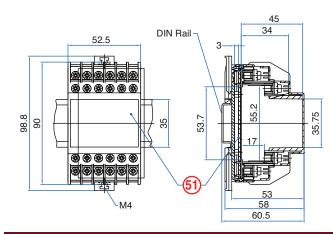
ACCESSORIES

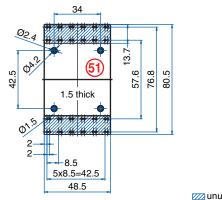
Accessories	Part Number	Туре		
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M		
Screw-hole and	91.201.1	SHPC		
Wire-Entry Cover Plug Set				

*Panel Mount Tab

93.001.5 PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Tall Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(3) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.443	KU4084BT	Right Angle Pins	Machine Solder/
			Wire Jumper

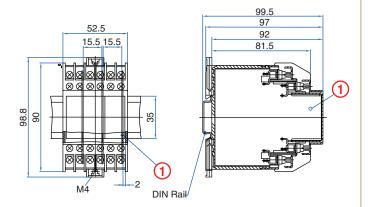
ACCESSORIES

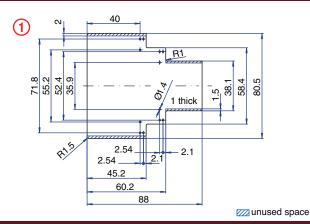
Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC

Wire-Entry Cover Plug Set

*Panel Mount Tab 93.001.5 PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







24 Terminal
with 16 Standard and
8 High Current Terminals
Vertical PCB
Screw Clamp



TECHNICAL INFORMATION

Electrical:

Standard Terminal: 16A, 300V, 22-14 AWG High Current Terminal: 50A, 300V, 18-8 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O **Color:** Light Gray

Terminal Type:

Standard: Screw/Pressure Plate High Current: Box Clamp

Terminal Screw Size:

M3.5 / M4

Recommended Torque:

0.8Nm / 1.2Nm

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

Wire Jumper

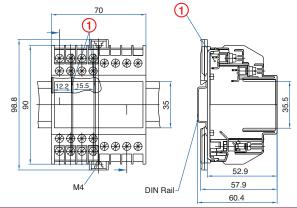
0	RDEF	RING	INFORM	ATION		
			_			_

Part Number Type Description PCB Connection
91.730 KU4089BHC Right Angle Pins Machine Solder/

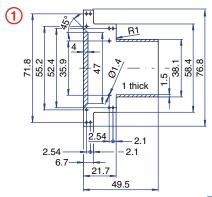
ACCESSORIES

Accessories	Part Number	Туре	
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M	
Screw-hole and	91.201.1	SHPC	
Wire-Entry Cover Plug Se	t		
*Panal Mount Tah	02 001 5	DMA/KII	

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

24 Terminal with 16 Standard and 8 High Current Terminals Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

Standard Terminal: 16A, 300V, 22-14 AWG High Current Terminal: 50A, 300V, 18-8 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color: Light Gray

Terminal Type:

Standard: Screw/Pressure Plate High Current: Box Clamp

Terminal Screw Size:

M3.5 / M4

Recommended Torque:

0.8Nm/ 1.2Nm

Max. PCB's:

(1) Horizonal, (2) Vertical

Mounting:

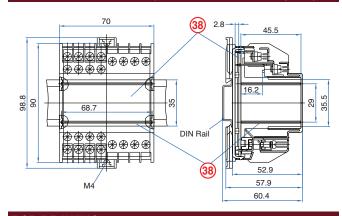
35mm DIN Rail or optional panel mounting*

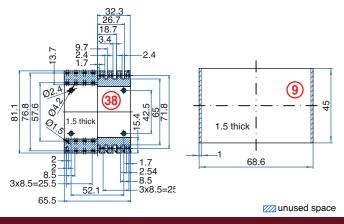
ORDERING INFORMATION Part Number Type Description PCB Connection 91.740 KU4089CHC Straight Pins Machine Solder/ Wire Jumper

91.740 KU4089CHC Straight Pins Machine Solder/ Wire Jumper ACCESSORIES

Accessories	Part Number	Туре	
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M	
Screw-hole and	91.201.1	SHPC	
Wire-Entry Cover Plug Se	t		
*Panel Mount Tab	93.001.5	PMA/KU	

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(4) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

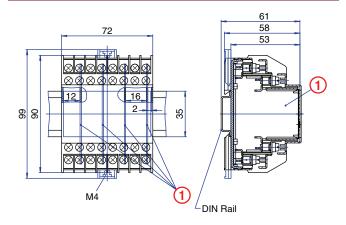
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.280	KU4003B	Right Angle Pins	Machine Solder/
			Wire Jumper

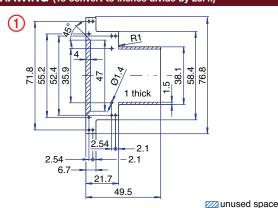
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	t	
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



32 Terminal

Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal, (2) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

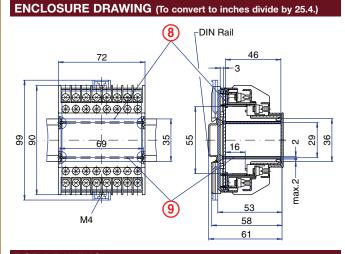
ORDERING INFORMATION

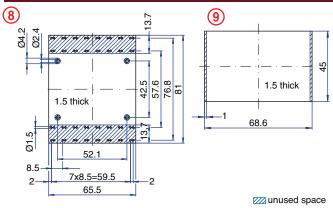
Part Number	Type	Description	PCB Connection
91.260	KU4003C	Straight Pins	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Vire-Entry Cover Plug Set		

*Panel Mount Tab 93.001.5 PMA/KU







Vertical PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(4) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

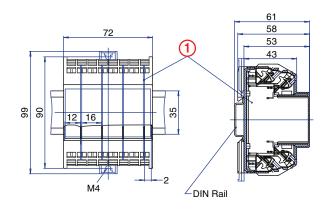
				
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	75			MAILON

Part Number	Туре	Description	PCB Connection
91.580	KU4039B	Right Angle Pins	Machine Solder/ Wire Jumper

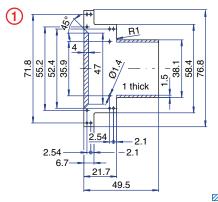
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

32 Terminal

Horizontal PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or

optional panel mounting*

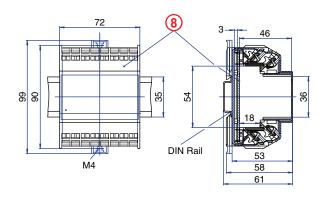
ORDERING INFORMATION

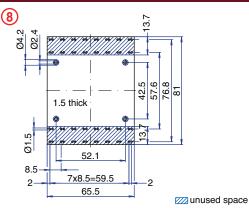
Part Number	Туре	Description	PCB Connection
91.560	KU4039C	Straight Pins	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре	
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M	
*Panel Mount Tah	93 001 5	PMA/KII	

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Tall Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5 **Recommended Torque:**

0.8Nm

Max. PCB's:

(4) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.283	KU4003BT	Right Angle Pins	Machine Solder/
			Wire Jumper

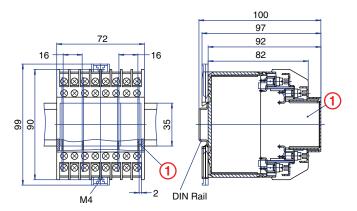
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC

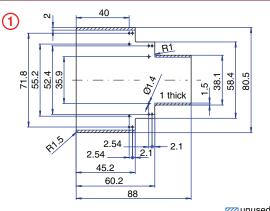
Wire-Entry Cover Plug Set

*Panel Mount Tab 93.001.5 PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

32 Terminal

Tall Vertical PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(4) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

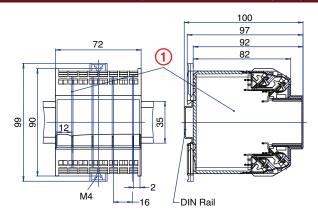
ORDERING INFORMATION

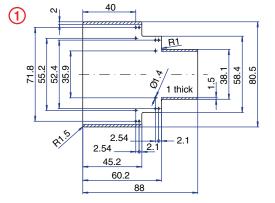
Part Number	Type	Description	PCB Connection
91.583	KU4039BT	Right Angle Pins	Machine Solder/
			Wire Jumper

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93 001 5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

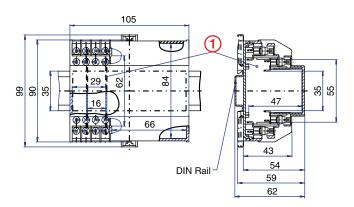
ORDERING INFORMATION

Part Number	т Туре	Description	PCB Connection
91.250	KU4090B16	Right Angle Pins	Machine Solder/
			Wire Jumper

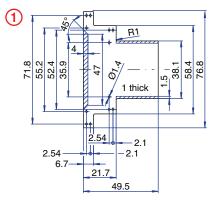
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	t	
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

16 Terminal

Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating: UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal, (2) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

'

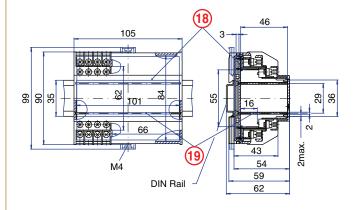
ORDERING INFORMATION

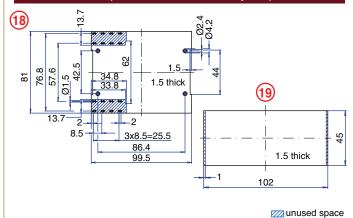
Part Number	Туре	Description	PCB Connection
91.230	KU4090C16	Straight Pins	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	et	
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Vertical PCB Screw Clamp with vent slots



TECHNICAL INFORMATION

Electrical:

16A. 300V. 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(3) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

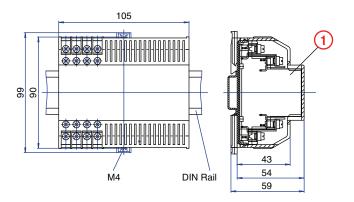
ORDERING INFORMATION

Part Number	er Type	Description	PCB Connection
91.255	KU4090B16V	Right Angle Pins	Machine Solder/
			Wire Jumper

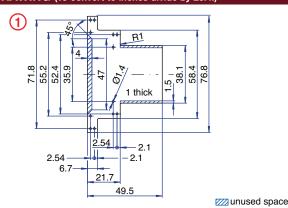
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	et .	

*Panel Mount Tab 93.001.5 PMA/KU ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



16 Terminal

Horizontal PCB Screw Clamp with vent slots



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal, (2) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

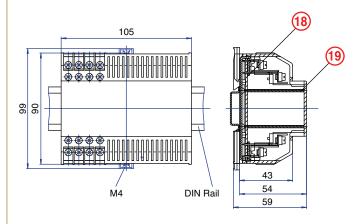
ORDERING INFORMATION

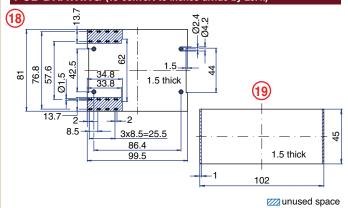
Part Number	er Type	Description	PCB Connection
91.235	KU4090C16V	Straight Pins	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Set		
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(6) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

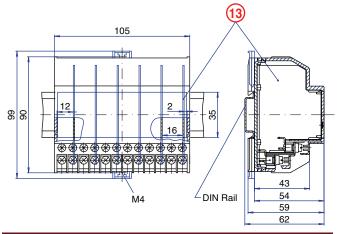
ORDERING INFORMATION

Part Number	r Type	Description	PCB Connection
91.290	KU4090B24	Right Angle Pins	Machine Solder/
			Wire Jumper

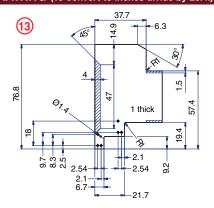
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	et	
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



24 Terminal

Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A. 300V. 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal (2) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91 270	KI 14090C24	Straight Pins	Machine Solder

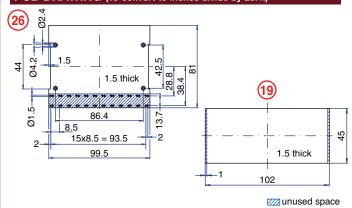
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug S	Set	

*Panel Mount Tab 93.001.5 PMA/KU ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

105 66 6 *** 8888888888888 59 62 DIN Rail

PCB DRAWING (To convert to inches divide by 25.4.)



unused space

Vertical PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(6) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

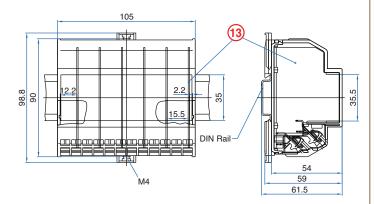
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Part Number	Type	Description	PCB Connection
91.590	KU4040B	Right Angle Pins	Machine Solder/
			Wire Jumper

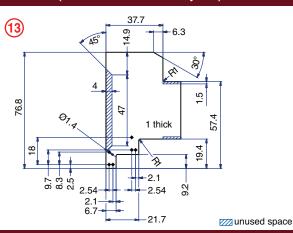
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tah	93 001 5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



24

Terminal Horizontal PCB

Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or

optional panel mounting*

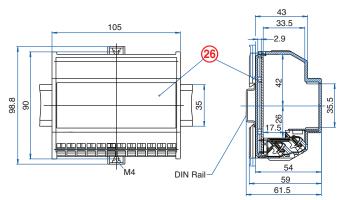
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.570	KU4040C	Straight Pins	Machine Solder

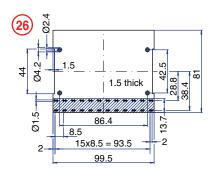
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space



24 Terminal
with 16 Standard and
8 High Current Terminals
Vertical PCB
Screw Clamp



TECHNICAL INFORMATION

Electrical:

Standard Terminal: 16A, 300V, 22-14 AWG High Current Terminal: 50A, 300V, 18-8 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color: Light Gray

Terminal Type:

Standard: Screw/Pressure Plate High Current: Box Clamp

Terminal Screw Size:

M3.5 / M4

Recommended Torque:

0.8Nm / 1.2Nm

Max. PCB's:

(3) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

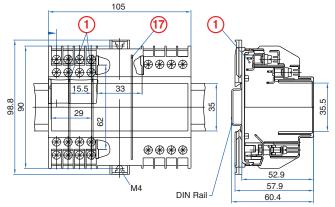
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Part Number	r Type	Description	PCB Connection
91.750	KU4090BHC	Right Angle Pins	Machine Solder/
			Wire Jumper

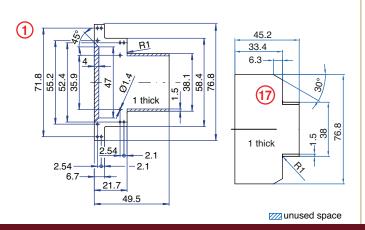
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	t	
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



24 Terminal with 16 Standard and 8 High Current Terminals Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

Standard Terminal: 16A, 300V, 22-14 AWG High Current Terminal: 50A, 300V, 18-8 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color: Light Gray

Terminal Type:

Standard: Screw/Pressure Plate High Current: Box Clamp

Terminal Screw Size:

M3.5 / M4

Recommended Torque:

0.8Nm / 1.2Nm

Max. PCB's:

(1) Horizontal, (2) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

ORDERING INFORMATION

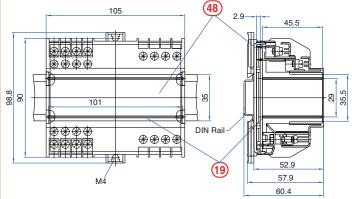
Part Numbe	r Type	Description	PCB Connection
91.760	KU4090CHC	Straight Pins	Machine Solder/
			Wire lumner

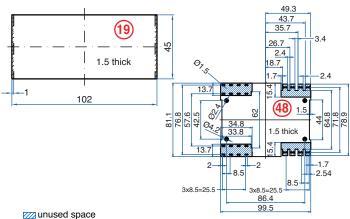
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Set		

*Panel Mount Tab 93.001.5 PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3 5

Recommended Torque:

0.8Nm

Max. PCB's:

(6) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

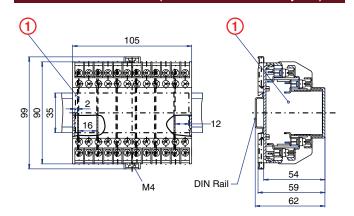
ORDERING INFORMATION

Part Number	r Type	Description	PCB Connection
91.330	KU4090B48	Right Angle Pins	Machine Solder/
			Wire Jumper

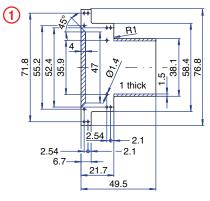
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	t	
*Panel Mount Tab	93.001.5	PMA/KU

93.001.5 ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

48 Terminal

Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal, (2) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

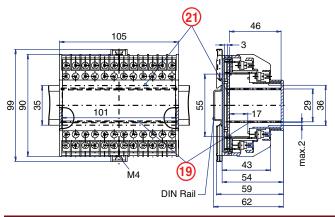
ORDERING INFORMATION

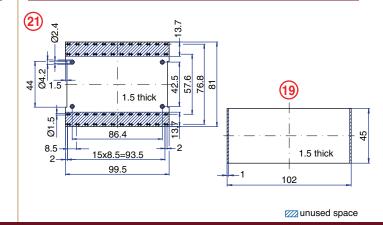
Part Number	r Type	Description	PCB Connection
91.310	KU4090C48	Straight Pins	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Set		
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Vertical PCB Screw Clamp terminals on one side only



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(8) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

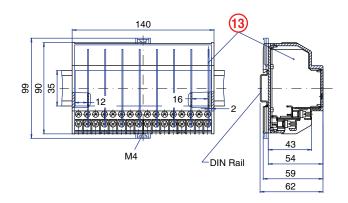
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.320	KU4011B	Right Angle Pins	Machine Solder/
			Wire Jumper

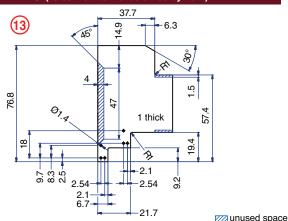
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	t	
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



32 Terminal

Horizontal PCB Screw Clamp terminals on one side only



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating: UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate **Terminal Screw Size:**

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal, (2) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

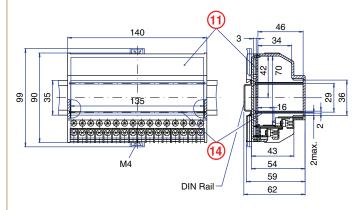
ORDERING INFORMATION

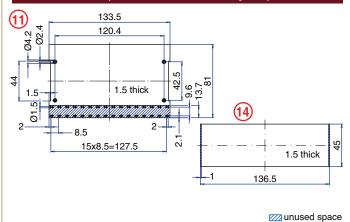
Part Number	Туре	Description	PCB Connection
91 300	KU4011C	Straight Pins	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	et	
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Vertical PCB Screw Clamp terminals in corners only



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(4) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.360	KU4012B	Right Angle Pins	Machine Solder/
			Wire Jumper

ACCESSORIES

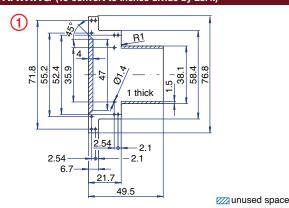
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Se	t	

*Panel Mount Tab

93.001.5 PMA/KU ENCLOSURE DRAWING (To convert to inches divide by 25.4.)

140 66 35 16 43 DIN Rail M4 54 59 62

PCB DRAWING (To convert to inches divide by 25.4.)



32 Terminal

Horizontal PCB Screw Clamp terminals in corners only



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal, (2) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

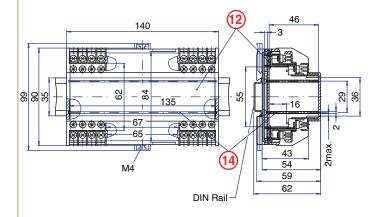
ORDERING INFORMATION

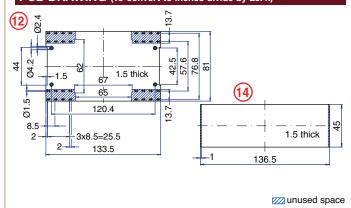
Part Number	Type	Description	PCB Connection
91.340	KU4012C	Straight Pins	Machine Solder

ACCESSORIES

ACCESCOTILES		
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Set		
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Vertical PCB Screw Clamp with vent slots



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG **Housing Material:**

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F) Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3 5

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Vertical

Mounting:

35mm DIN Rail or optional panel mounting*

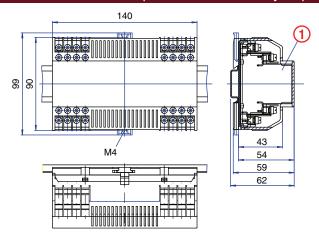
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Part Number	Туре	Description	PCB Connection
91.365	KU4012BV	Right Angle Pins	Machine Solder/ Wire Jumper

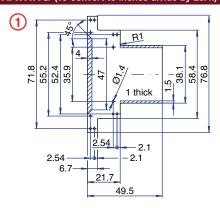
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Set		
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

32 Terminal

Horizontal PCB Screw Clamp with vent slots



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F) Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3 5

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or optional panel mounting*

ORDERING INFORMATION

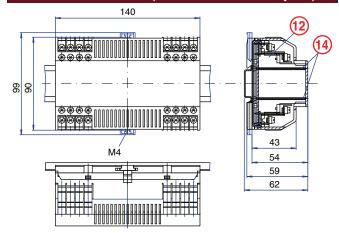
Part Number	Туре	Description	PCB Connection
91.345	KU4012CV	Straight Pins	Machine Solder

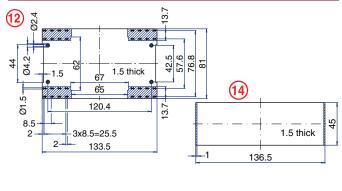
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug S	et	

*Panel Mount Tab 93.001.5 PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.





Vertical PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

M3 5

Recommended Torque:

0.8Nm

Max. PCB's:

(8) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

PMA/KU

ORDERING INFORMATION

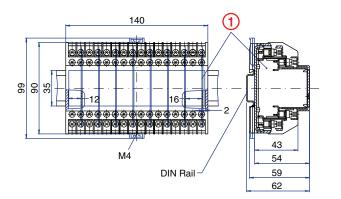
Part Number	Туре	Description	PCB Connection
91.400	KU4013B	Right Angle Pins	Machine Solder/ Wire Jumper

ACCESSORIES

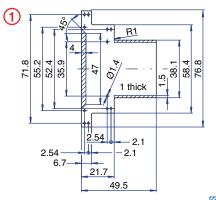
*Panel Mount Tab

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Screw-hole and	91.201.1	SHPC
Wire-Entry Cover Plug Set		

93.001.5 ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



mused space

64 Terminal

Horizontal PCB Screw Clamp



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Screw / Pressure Plate

Terminal Screw Size:

Recommended Torque:

0.8Nm

Max. PCB's:

(1) Horizontal, (2) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

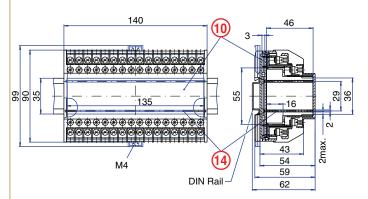
ORDERING INFORMATION

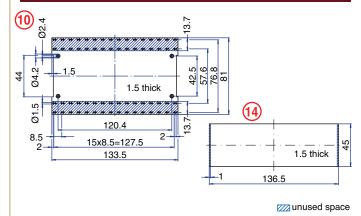
Part Number	Type	Description	PCB Connection
91.380	KU4013C	Straight Pins	Machine Solder

ACCESSORIES

ACCESSORIES						
Accessories	Part Number	Туре				
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M				
Screw-hole and	91.201.1	SHPC				
Wire-Entry Cover Plug Set						
*Panel Mount Tab	93.001.5	PMA/KU				

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Vertical PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

_

Recommended Torque:

_

Max. PCB's:

(8) Vertical

Mounting:

35mm DIN Rail or

optional panel mounting*

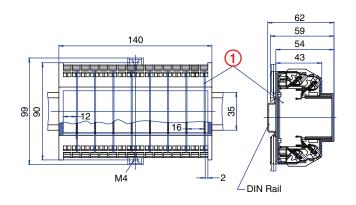
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Part Number	Type	Description	PCB Connection
91.600	KU4041B	Right Angle Pins	Machine Solder/
			Wire Jumper

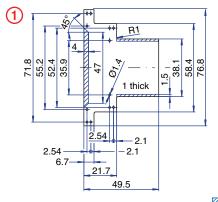
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

64 Terminal

Horizontal PCB Spring Clamp



TECHNICAL INFORMATION

Electrical:

10A, 300V, 26-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Spring Cage Clamp

Terminal Screw Size:

Recommended Torque:

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Max. PCB's:

(1) Horizontal

Mounting:

35mm DIN Rail or

optional panel mounting*

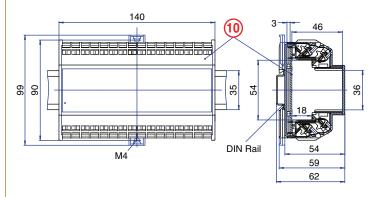
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91 610	KU4041C	Straight Pins	Machine Solder

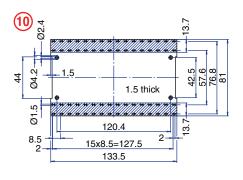
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
*Panel Mount Tab	93.001.5	PMA/KU

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

KU4100 Series



The versatile **KU4100 series** features a compact design with different terminal configuration options. They are available in six widths with double level terminal locations. Terminal configuration options include blank enclosures with no terminal openings, fixed PCB terminals and pluggable PCB terminals.

MATERIALS

Housing

Housing Shell: Polycarbonate, 10% Glass Filled Base: Polycarbonate, 10% Glass Filled

Terminals

Housing: Polyamide Terminal Pins: Tinned Brass

TEMPERATURE RATING:

115°C (239°F) UL94V0

Housing: Light Gray Cover with Black Base

PROTECTION

KU4100 enclosures have an IP30 rating, IP20 for terminal openings, (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KU4100 enclosure series housings are supplied as unassembled kits. Each kit consists of a flat base, a housing cover and terminal sets where applicable. The terminals are set on two levels to maximize space. The terminals are machine solderable. Integral printed circuit guides are molded into the cover for proper board insertion and containment. Multiple boards can be mounted in each enclosure, usually 2 PCBs are used with the terminals and one additional PCB can be used for display or control elements in the enclosure front.

TERMINALS

There are 4 options available; no terminal openings, fixed PCB terminals, pluggable PCB terminals and high current terminals. The terminal blocks are all machine solderable.

The option of no terminal openings allows for custom openings to be made to accommodate alternate connector types.

Fixed PCB terminals are standard screw cage clamp style terminal blocks. Terminal covers are available for the fixed PCB terminal version to cover unused terminals. The terminal cover is a 12 pole strip that is breakable into individual poles. It snaps into the enclosure covering the screw hole and wire entry areas.

Pluggable PCB terminals feature male pin headers and female screw cage clamp plugs that can be plugged/unplugged. **Power source must be disconnected before plugging/unplugging terminals.**

High current terminals feature rising clamps where the wire is clamped between the clamp and the terminal strip.

MOUNTING

The KU4100 series can easily be mounted on standard 35mm DIN rail by means of the integral mounting foot and DIN clip.

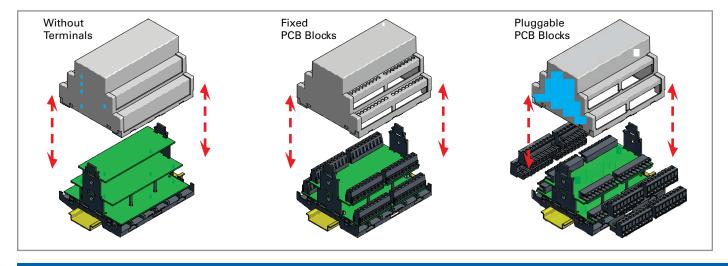
CUSTOMIZATION

We can supply the KU4100 series enclosures with many custom options including:

Partial terminal loading Enclosure bus connections

Ventilation Slots

Machining of custom holes





17.5mm Enclosure Without Terminals



TECHNICAL INFORMATION

Electrical:

Housing Material:
Glass-filled Polycarbonate

Temperature Range: Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

Terminal Type:

Terminal Screw Size:

Terrimiai Gorew Gize.

Recommended Torque:

PCB Locations:

(1) Vertical, Perpendicular

Mounting:

35mm DIN Rail

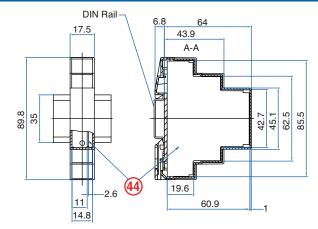
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Part Number	Type	Description	PCB Connection
91.800	KU4187B	Without	None
		Terminals	

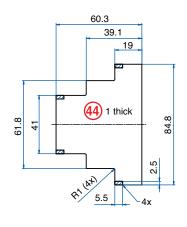
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



zzz unused space

12 Terminal Fixed PCB Blocks



TECHNICAL INFORMATION

Electrical:

12A, 250V, 24-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O **Color:**

Light Gray Cover, Black Base

and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(1) Vertical, Perpendicular

Mounting:

35mm DIN Rail

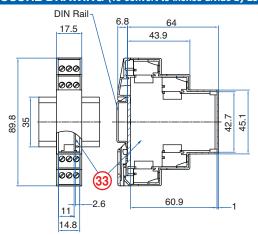
ORDERING INFORMATION

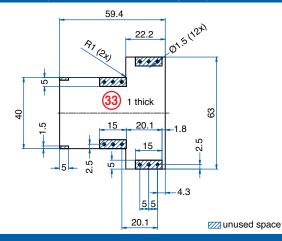
Part Number	Туре	Description	PCB Connection
91.801	KU4187F	Fixed PCB	Machine Solder
		Terminal	

ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover (12 pole)	91.801.1	TCS/12

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Pluggable PCB Plugs / Headers



TECHNICAL INFORMATION

Electrical:

12A, 250V, 28-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(1) Vertical, Perpendicular

Mounting:

35mm DIN Rail

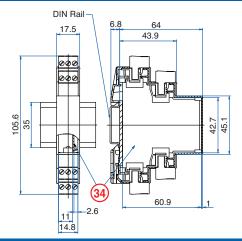
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.802	KU4187P	Pluggable	Machine Solder
		PCB Terminals	

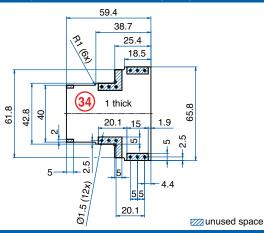
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



8 Terminal

High Current PCB Blocks



TECHNICAL INFORMATION

Electrical:

40A, 250V, 20-8 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

1.2Nm

PCB Locations:

(1) Vertical, Perpendicular

Mounting:

35mm DIN Rail

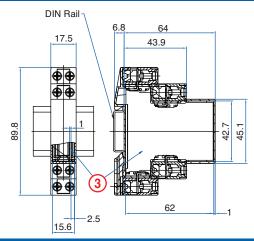
ORDERING INFORMATION

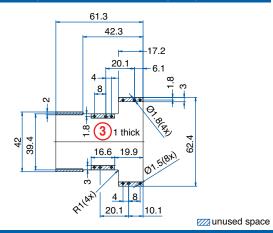
Part Number	Туре	Description	PCB Connection
91.803	KU4187HC	High Current	Machine Solder
		Terminals	

ACCESSORIES

Accessories	Part Number	Type
Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







35mm Enclosure Without Terminals



TECHNICAL INFORMATION

Electrical:

_

Housing Material:
Glass-filled Polycarbonate

Temperature Range: Up to 115°C (239°F)

Flammability Rating:

UL94 V-O Color:

Light Gray Cover, Black Base

Terminal Type:

_

Terminal Screw Size:

_

Recommended Torque:

_

PCB Locations:

(3) Vertical, Parallel

Mounting:

35mm DIN Rail

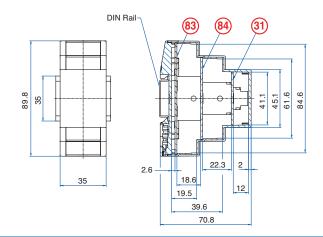
ORDERING INFO	RMATION
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Part Number	Type	Description	PCB Connection
91.810	KU4188B	Without	None
		Terminals	

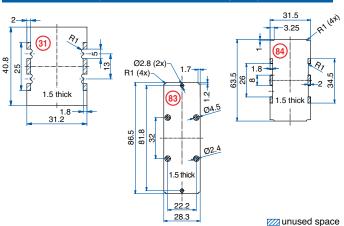
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



20 Terminal Fixed PCB Blocks



TECHNICAL INFORMATION

Electrical:

12A, 250V, 24-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

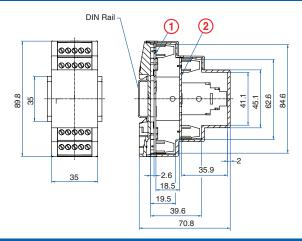
ORDERING INFORMATION

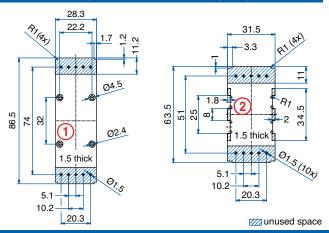
Part Number	Туре	Description	PCB Connection
91.811	KU4188F	Fixed PCB	Machine Solder
		Terminal	

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover (12 pole)	91.801.1	TCS/12

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Pluggable PCB Plugs / Headers



TECHNICAL INFORMATION

Electrical:

12A, 250V, 28-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F) Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2 5

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

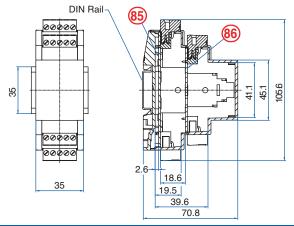
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.812	KU4188P	Pluggable	Machine Solder
		PCB Terminals	

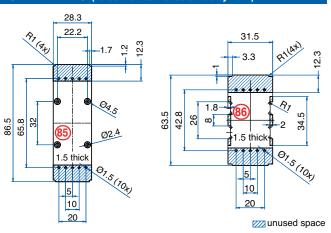
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



16 Terminal

High Current PCB Blocks



TECHNICAL INFORMATION

Electrical:

40A, 250V, 20-8 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

1.2Nm

PCB Locations:

(2) Vertical, Perpendicular

Mounting:

35mm DIN Rail

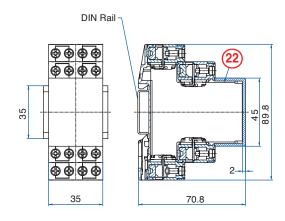
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.813	KU4188HC	High Current Terminals	Machine Solder

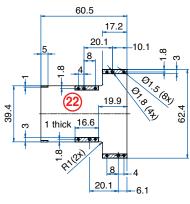
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space



52.5mm EnclosureWithout Terminals



TECHNICAL INFORMATION

Electrical:

Housing Material:

Glass-filled Polycarbonate

Temperature Range: Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

Terminal Type:

Terminal Screw Size:

Terrimai Screw Size.

Recommended Torque:

PCB Locations:

(3) Vertical, Parallel

1 ----

Mounting:

35mm DIN Rail

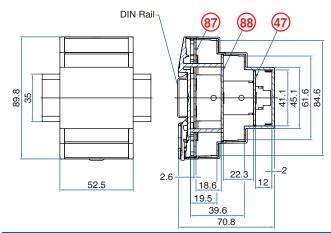
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Part	Number	Туре	Description	PCB Connection
9	1.820	KU4184B	Without	None
			Terminals	

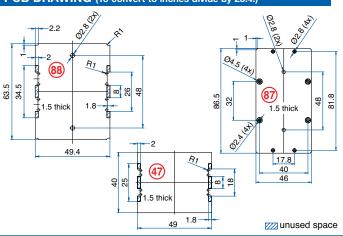
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



36 Terminal Fixed PCB Blocks



TECHNICAL INFORMATION

Electrical:

12A, 250V, 24-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

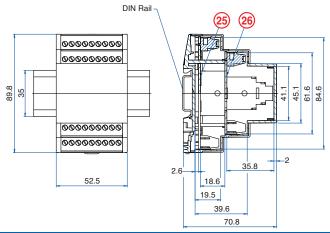
ORDERING INFORMATION

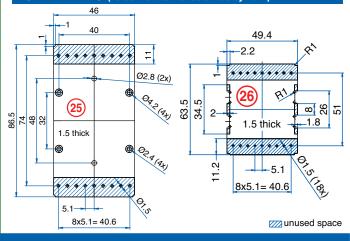
Part Number	Туре	Description	PCB Connection
91.821	KU4184F	Fixed PCB	Machine Solder
		Terminals	

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover (12 pole)	91.801.1	TCS/12

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





Pluggable PCB Plugs / Headers



TECHNICAL INFORMATION

Electrical:

12A, 250V, 28-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

0.4Nm

35mm DIN Rail

Recommended Torque:

PCB Locations:

(2) Vertical, Parallel

Mounting:

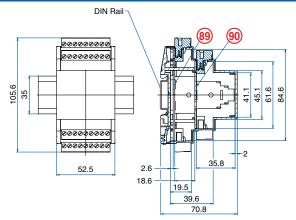
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.822	KU4184P	Pluggable PCB Terminals	Machine Solder

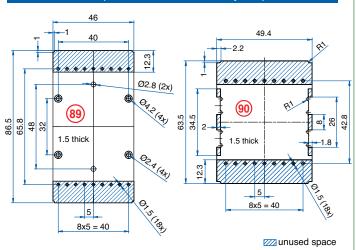
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



70mm Enclosure **Without Terminals**



TECHNICAL INFORMATION

Electrical:

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

Terminal Type:

Terminal Screw Size:

Recommended Torque:

PCB Locations:

(3) Vertical, Parallel

Mounting:

35mm DIN Rail

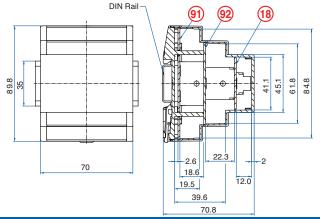
ORDERING INFORMATION

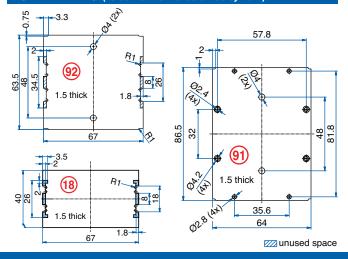
Part Number	Type	Description	PCB Connection
91.830	KU4189B	Without Terminals	None

ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







48 Terminal Fixed PCB Blocks



TECHNICAL INFORMATION

Electrical:

12A, 250V, 24-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range: Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

MO

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

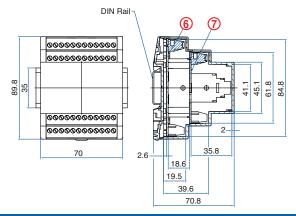
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.831	KU4189F	Fixed	Machine Solder
		PCB Terminals	

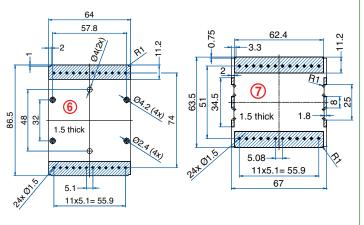
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover (12 pole)	91.801.1	TCS/12

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



48 Terminal

Pluggable PCB Plugs / Headers



TECHNICAL INFORMATION

Electrical:

12A, 250V, 28-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

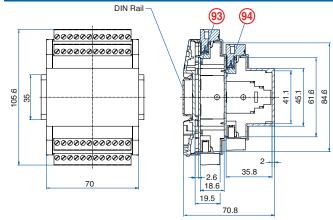
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.832	KU4189P	Pluggable	Machine Solder
		PCB Terminals	

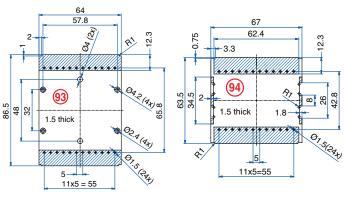
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space

105mm Enclosure

Without Terminals



TECHNICAL INFORMATION

Electrical:

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

Terminal Type:

Terminal Screw Size:

Recommended Torque:

Mounting:

PCB Locations:

(3) Vertical, Parallel

35mm DIN Rail

72 Terminal

Fixed PCB Blocks



12A, 250V, 24-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

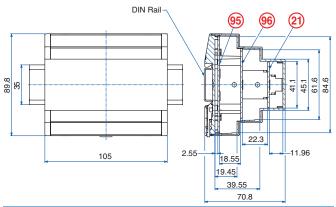
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.840	KU4190B	Without	None
		Terminals	

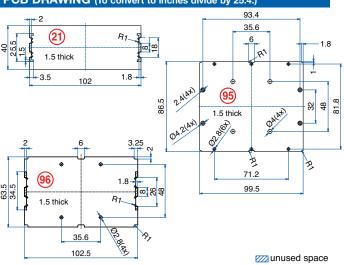
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



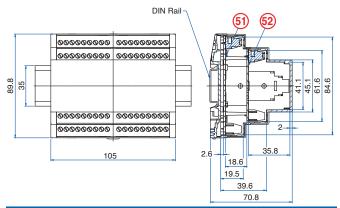
ORDERING INFORMATION

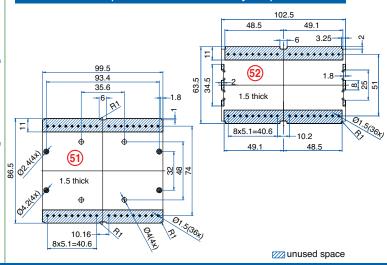
Part Number	Type	Description	PCB Connection
91.841	KU4190F	Fixed PCB	Machine Solder
		Terminals	

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
erminal Cover (12 pole)	91.801.1	TCS/12

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Pluggable PCB Plugs / Headers



TECHNICAL INFORMATION

Electrical:

12A, 250V, 28-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

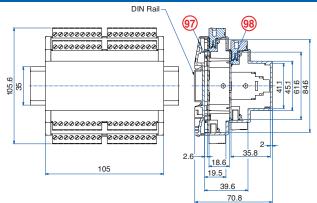
ORDERING INFORMATION

Part Number	Туре	Description	PCB Connection
91.842	KU4190P	Pluggable	Machine Solder
		PCB Terminals	

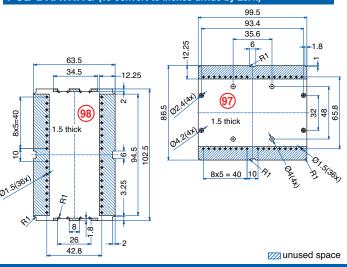
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



140mm Enclosure Without Terminals



TECHNICAL INFORMATION

Electrical:

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O Color:

Light Gray Cover, Black Base

Terminal Type:

Terminal Screw Size:

Recommended Torque:

PCB Locations:

(3) Vertical, Pararllel

Mounting:

35mm DIN Rail

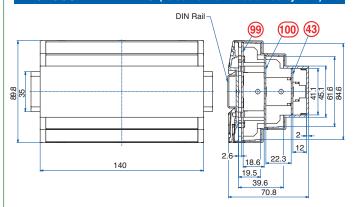
ORDERING INFORMATION

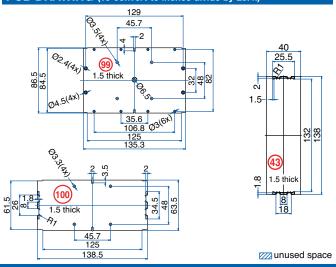
Part Number	Type	Description	PCB Connection
91.850	KU4191B	Without	None
		Terminals	

ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





96 Terminal Fixed PCB Blocks



TECHNICAL INFORMATION

Electrical:

12A, 250V, 24-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

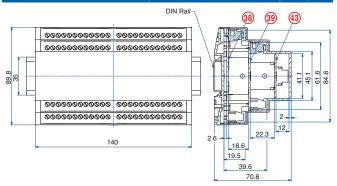
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.851	KU4191F	Fixed	Machine Solder
		PCB Terminals	

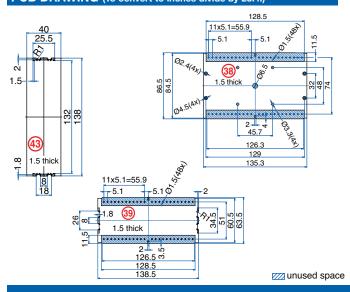
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M
Terminal Cover (12 pole)	91 801 1	TCS/12

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



96 Terminal

Pluggable PCB Plugs / Headers



TECHNICAL INFORMATION

Electrical:

12A, 250V, 28-14 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 115°C (239°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray Cover, Black Base

and Terminals

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M2.5

Recommended Torque:

0.4Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

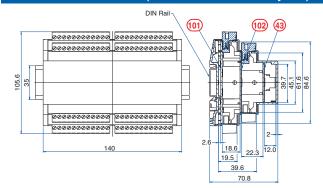
ORDERING INFORMATION

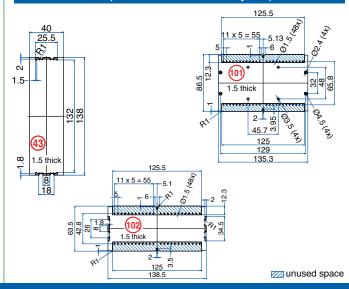
Part Number	Type	Description	PCB Connection
91.852	KU4191P	Pluggable	Machine Solder
		PCB Terminals	

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)





KO4300 Series



The KO4300 Series Enclosures feature high density double level terminals making them ideal for many electronic applications. They are small to medium in size ranging from 16 to 64 terminals. There are 4 widths available each having a short and tall version. Terminal styles are available in fixed scew terminals, pluggable screw terminals or pluggable spring clamp terminals.

MATERIALS

Housing Shell: Polycarbonate, 10% Glass Filled Terminal Housing: Polyamide, 40% Glass Filled

Terminal: Tin-plated Steel (spring terminal: stainless steel)

Standard Color: Light Gray

TEMPERATURE RATINGS:

Terminal Housing: 290°C (554°F) UL94VO Housing: 115°C (239°F) UL94VO

PROTECTION

KO4300 series enclosures have an IP20 rating (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KO4300 enclosure series housings are supplied as unassembled kits. Each kit consists of a housing base, terminal cover side parts, terminal blocks and a front plate. The double level terminal design keeps the enclosure width to a minimum freeing valuable DIN rail space. The terminals are machine solderable with right angle pins. Integral printed circuit board guides are molded into the housing base to help with proper board insertion and containment. Boards are mounted vertically in the enclosure, perpendicular to the DIN rail.

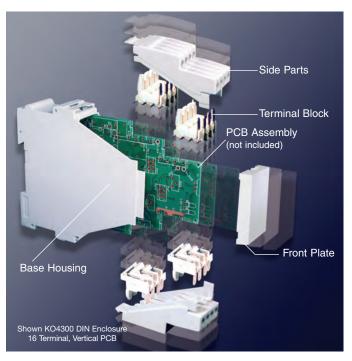
TERMINALS

Rising clamp screw terminals are used with the KO4300 series enclosures. Wires to be terminated are squeezed between the bottom of the rising clamp and the terminal strip for reliable, gas-tight connections. The terminals can be machine soldered to the board in the same step as the other components to save time and labor. All terminals have funnel shaped wire openings to eliminate wire fraying. The terminal screws can be turned with a flat tip or a #2 Philips screwdriver.

Pluggable screw clamp and spring clamp terminals are also available. A 3mm wide flat blade screwdriver should be used to open the spring terminal for wire insertion.

MOUNTING

The KO4300 series can easily be mounted on standard 35mm DIN rail by means of the integral mounting foot and DIN clip.



CUSTOMIZATION

Many custom options are available for the KO4300 series enclosures. Some of the available options are:

- Partial terminal loading
- Side ventilation slots
- Internal/External bus connections
- · Machining of custom holes
- PCB grounding to the DIN rail
- RJ45 and DB9 openings in front plate

HOUSING ASSEMBLY

- Place all assemblies on a level surface
- Terminal blocks should be pre-assembled on the PCB
- Push the side parts over the terminal blocks ensuring that the guide pins of the terminal blocks slide into the holes of the side parts
- Snap the front plate onto the pre-mounted side parts
- Slide the PCB of the upper section into the guide groves of the base
- Slide the upper section into the base. Make sure that the wall areas overlap correctly and the guide element of the base slides in the mating recess of the base.
- Push the assembly completely together so that the clips on the side parts snap into the recesses in the base



Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Terminal Block Material:

Glass-filled Polyamide Temperature Range:

Up to 115°C (239°F), Housing 290°C (554°F), Terminals

Flammability Rating:

UL94 V-O Color: Light Gray

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(2) Vertical

Mounting:

35mm DIN Rail

16 Terminal	•000	0000	Pluggable Screw Terminals
Tall Vertical PCB			ititi
Fixed Screw Terminals	> 000	Pluggable Spring Terminals	
TECHNICAL INFORMAT	FION		

TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Terminal Block Material:

Glass-filled Polyamide

Temperature Range:

Up to 115°C (239°F), Housing 290°C (554°F), Terminals

Flammability Rating:

UL94 V-O

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm Max. PCB's:

(2) Vertical

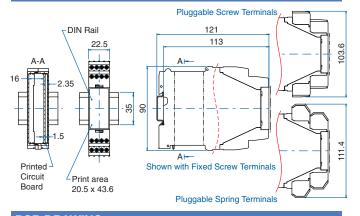
Mounting: 35mm DIN Rail

Color: Light Gray

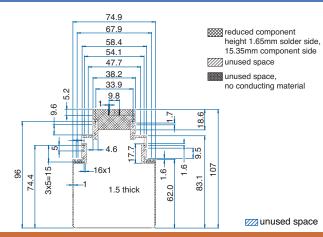
ORDERING INFORMATION			
Part Number	Type	Terminals	PCB Connection
90.910	KO4303	Fixed Screw	Machine Solder
90.913	KO4303stS	Pluggable Screw	Machine Solder
90 915	KU43U3etK	Pluggable Spring	Machine Solder

ACCESSORIES Accessories Part Number Type TS35x7.5/1M 1 Meter DIN Rail 2511120/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



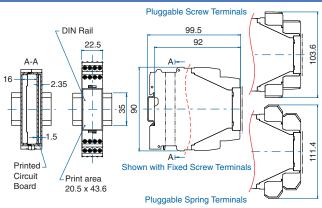
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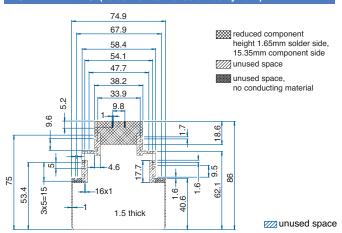
Part Number	Type	Terminals	PCB Connection
90.900	KO4323	Fixed Screw	Machine Solder
90.903	KO4323stS	Pluggable Screw	Machine Solder
90.905	KO4323stK	Pluggable Spring	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)









Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Terminal Block Material:

Glass-filled Polyamide

Temperature Range:

Up to 115°C (239°F), Housing 290°C (554°F), Terminals

Flammability Rating:

UL94 V-O Color: Light Gray

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(4) Vertical

Mounting:

35mm DIN Rail

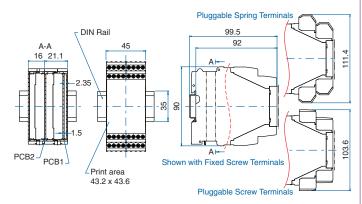
ORDERING INFORMATION

Part Number	Type	Terminals	PCB Connection
90.920	KO4324	Fixed Screw	Machine Solder
90.923	KO4324stS	Pluggable Screw	Machine Solder
90.925	KO4324stK	Pluggable Spring	Machine Solder

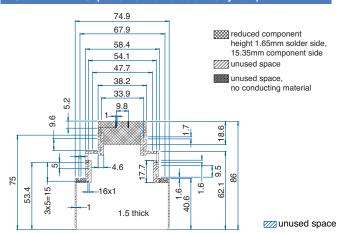
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)





TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Terminal Block Material:

Glass-filled Polyamide

Temperature Range:

Up to 115°C (239°F), Housing 290°C (554°F), Terminals

Flammability Rating:

UL94 V-O Color: Light Gray

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(4) Vertical

Mounting:

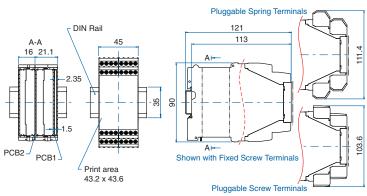
35mm DIN Rail

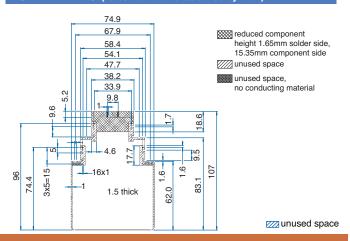
ORDERING INFORMATIONPart NumberTypeTerminalsPCB Connection90.930KO4304Fixed ScrewMachine Solder90.933KO4304stSPluggable ScrewMachine Solder

90.933 KO4304stS Pluggable Screw Machine Solder 90.935 KO4304stK Pluggable Spring Machine Solder

ACCESSORIES Accessories Part Number Type 1 Meter DIN Rail 2511120/1M TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Terminal Block Material:

Glass-filled Polyamide

Temperature Range:

Up to 115°C (239°F), Housing 290°C (554°F), Terminals

Flammability Rating:

UL94 V-O Color: Light Gray

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(6) Vertical

Mounting:

35mm DIN Rail

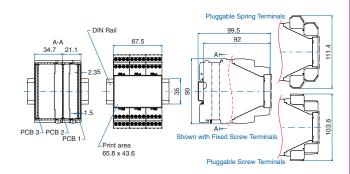
ORDERING INFORMATION

Part Number	Type	Terminals	PCB Connection
90.940	KO4325	Fixed Screw	Machine Solder
90.943	KO4325stS	Pluggable Screw	Machine Solder
90.945	KO4325stK	Pluggable Spring	Machine Solder

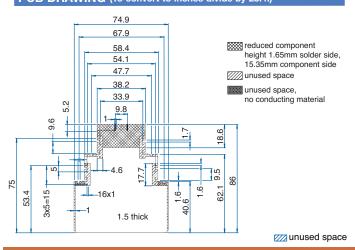
ACCESSORIES

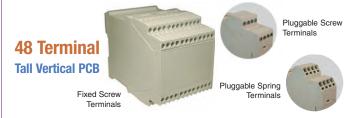
Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)





TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Terminal Block Material:

Glass-filled Polyamide

Temperature Range:

Up to 115°C (239°F), Housing 290°C (554°F), Terminals

Flammability Rating:

UL94 V-O

Color: Light Gray

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm Max. PCB's:

(6) Vertical

Mounting:

35mm DIN Rail

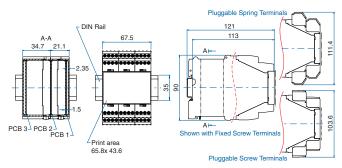
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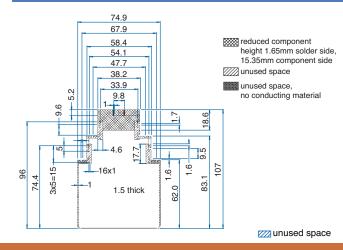
Part Number	Type	Terminals	PCB Connection
90.950	KO4305	Fixed Screw	Machine Solder
90.953	KO4305stS	Pluggable Screw	Machine Solder
90.955	KO4305stK	Pluggable Spring	Machine Solder

ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)









Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Terminal Block Material:

Glass-filled Polyamide

Temperature Range: Up to 115°C (239°F), Housing 290°C (554°F), Terminals

Flammability Rating:

UL94 V-O Color: Light Gray

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(8) Vertical

Mounting:

35mm DIN Rail

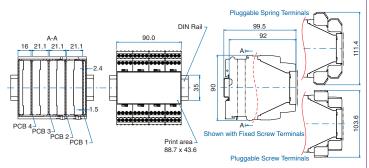
ORDERING INFORMATION

Part Number	Type	Terminals	PCB Connection
90.960	KO4326	Fixed Screw	Machine Solder
90.963	KO4326stS	Pluggable Screw	Machine Solder
90.965	KO4326stK	Pluggable Spring	Machine Solder

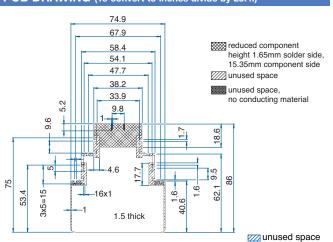
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1N

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)





TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Terminal Block Material:

Glass-filled Polyamide

Temperature Range:

Up to 115°C (239°F), Housing 290°C (554°F), Terminals

Flammability Rating:

UL94 V-O

Color: Light Gray

Terminal Type:

Screw / Rising Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

Max. PCB's:

(8) Vertical

Mounting:

35mm DIN Rail

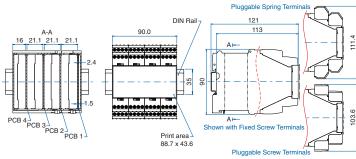
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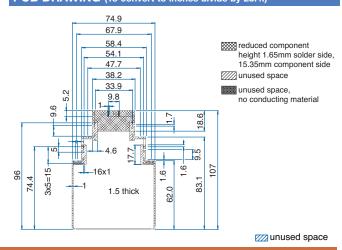
Part Number	Type	Terminals	PCB Connection
90.970	KO4306	Fixed Screw	Machine Solder
90.973	KO4306stS	Pluggable Screw	Machine Solder
90.975	KO4306stK	Pluggable Spring	Machine Solder

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)







Economical, compact KO4070 enclosures are supplied as easy to assemble kits. They are ideal for housing I/O circuits, relays, timers and other small devices. Each kit consists of two housing half shells and 4 to 16 machine solderable terminals with standard or extended length pins.

MATERIALS

Housing Shell: Polycarbonate, 10% Glass Filled

Terminal: Tinned Bronze

Terminal Screw: Chromated Steel

Temperature Rating:

125°C (257°F) UL94 VO Standard Color: Light Gray

PROTECTION

KO4070 enclosures have an IP20 rating (finger protected) and meet VBG4 and other European accident prevention requirements.

CONSTRUCTION

The KO4070 enclosures consist of two housing shells that snap together, and sectional, snap-together terminals. The maximum preassembled number of terminals are part of the enclosure kit. Potting is not recommended. Enclosures with removable center cover sections are available upon request.

BOARD PLACEMENT

Each enclosure can accept two boards, each up to 1.5mm (.0625 in.) thick, inserted vertically (parallel to the DIN rail) facing the terminals. These boards can be machine soldered to the terminals. Enclosure types KO4074 through KO4079, accept larger boards that can be screwed to the sidewalls of the housing shells (vertically, perpendicular to the DIN rail) using molded-in standoffs and 2 screws. Boards mounted on the sides can be 1mm (.04 in.) thick and require a wire jumper connection.

TERMINALS

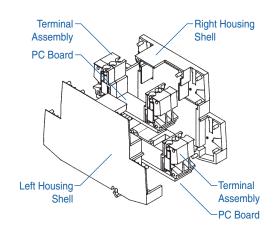
Box clamp design terminal blocks are used with the KO4070 series enclosures. Wire(s) to be terminated are squeezed between the bottom of the clamp and the busbar for reliable, gastight connections. The terminal blocks can be machine soldered to the board in the same step as the other components to save time and labor. Enclosures with extended length pins are available to increase enclosure cavity for large components. All terminals have funnel shaped wire openings to eliminate wire fraying. The terminal screws can be turned with a flat tip or a #1 or #2 Philips screwdriver.

MOUNTING

The KO4070 series have integral mounting feet that snap onto standard 35mm DIN rail. They cannot be panel mounted.

MARKING

Silk screen or attach label to the face of the enclosure.







TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

6 Terminal



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0 8Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

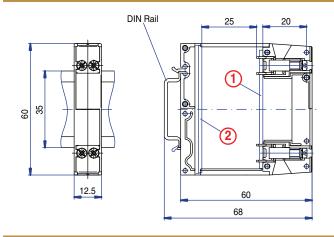
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.001	KO4071	Standard Length Pins	Solder Pins

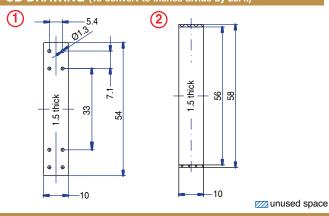
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



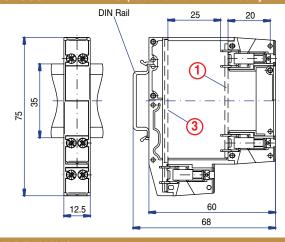
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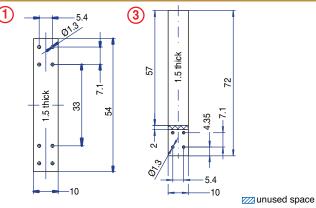
Part Number	Type	Description	PCB Connection
91.010	KO4072	Standard Length Pins	Solder Pins

ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.







TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range: Up to 125°C (257°F)

Flammability Rating:

UL94 V-O Color:

Light Gray

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(1) Vertical, Perpendicular

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

8 Terminal



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

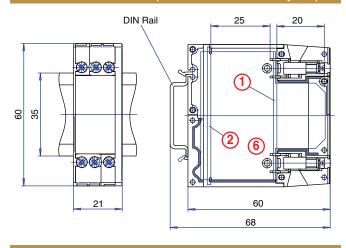
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.020	KO4074	Standard Length Pins	Solder Pins

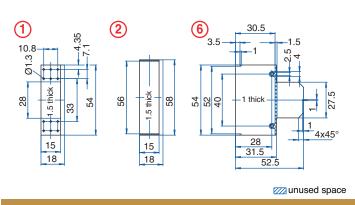
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



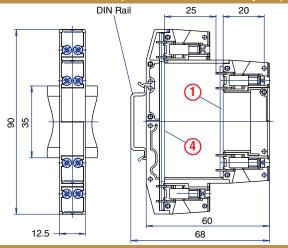
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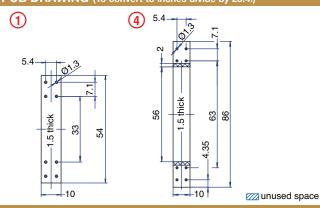
Part Number	Type	Description	PCB Connection
91.030	KO4073	Standard Length Pins	Solder Pins

ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)









TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(2) Vertical, Perpendicular

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

9 Terminal



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(1) Vertical, Perpendicular

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

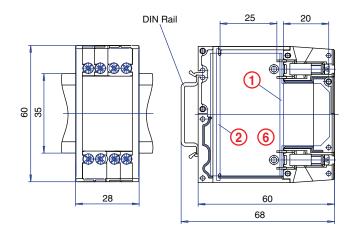
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.040	KO4077	Standard Length Pins	Solder Pins

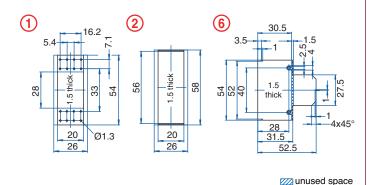
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



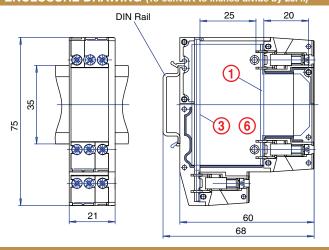
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.050	KO4075	Standard Length Pins	Solder Pins

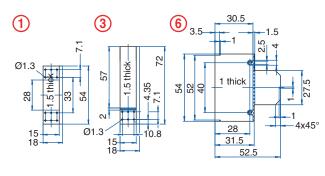
ACCESSORIES

Accessories	Part Number	Туре
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



unused space



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating: UL94 V-O

Color:

Light Gray

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(1) Vertical, Perpendicular

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

12 Terminal



TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

ecomr 0.8Nm

PCB Locations:

(2) Vertical, Perpendicular

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

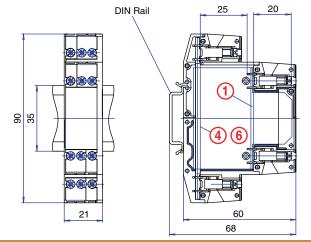
ORDERING INFORMATION

Part Number	Type	Description	PCB Connection
91.060	KO4076	Standard Length Pins	Solder Pins

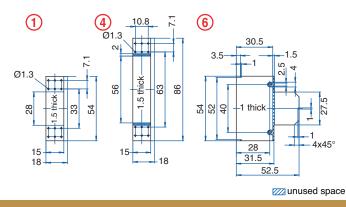
ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Bail	2511120/1M	TS35x7 5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



PCB DRAWING (To convert to inches divide by 25.4.)



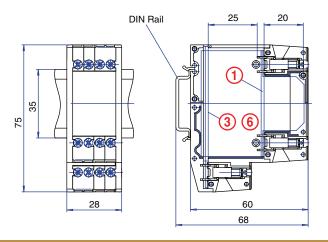
ORDERING INFORMATION

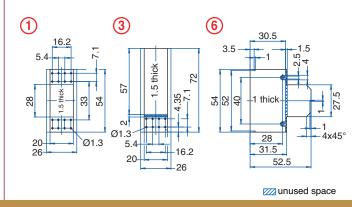
Part Number	Type	Description	PCB Connection
91.070	KO4078	Standard Length Pins	Solder Pins

ACCESSORIES

Accessories	Part Number	Type
1 Meter DIN Rail	2511120/1M	TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)









TECHNICAL INFORMATION

Electrical:

16A, 300V, 22-12 AWG

Housing Material:

Glass-filled Polycarbonate

Temperature Range:

Up to 125°C (257°F)

Flammability Rating:

UL94 V-O

Color:

Light Gray

Terminal Type:

Box Clamp

Terminal Screw Size:

M3.5

Recommended Torque:

0.8Nm

PCB Locations:

(2) Vertical, Perpendicular

(2) Vertical, Parallel

Mounting:

35mm DIN Rail

ORDERING INFORMATION

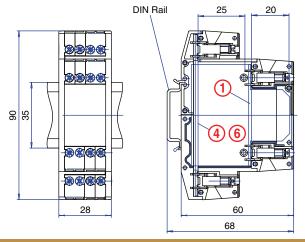
Part NumberTypeDescriptionPCB Connection91.080KO4079Standard Length PinsSolder Pins

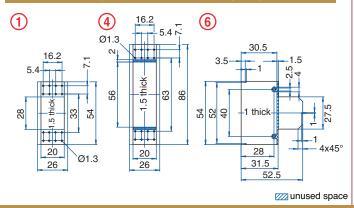
ACCESSORIES

 Accessories
 Part Number
 Type

 1 Meter DIN Rail
 2511120/1M
 TS35x7.5/1M

ENCLOSURE DRAWING (To convert to inches divide by 25.4.)



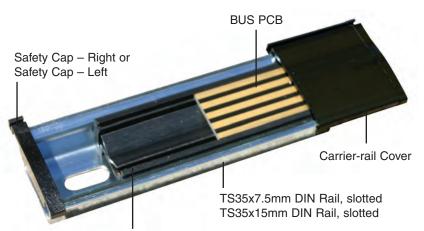


In-Rail Bus System

The In-Rail Bus System is an extremely flexible bus system suitable for data transmission and power supply. The principle is a printed circuit board with 5 bus lines that is installed into a DIN rail. This bus system can carry 5A per trace with a voltage of up to 63V. Spring contact blocks can be installed in almost any DIN enclosure for connection to the bus system. Contact security is ensured due to the high spring force of the gold plated, double contact springs.

Features:

- Universal Bus system useable with most DIN enclosure types*
- 5 Bus lines per Bus PCB
- 5A per bus, 25A max per PCB rail
- · Quick and easy mounting in the DIN rail
- · Gold plated contact surfaces
- Contact block springs with double contacts
- · High spring force on the contact springs
- Max temperature 70°C
- · Can be used for internal busing
- Standard DIN profiles, 7.5mm and 15mm
- UL approval
- 250 mm piece components can be supplied in lengths up to 1 meter



Carrier Profile for 7.5mm DIN Rail Carrier Profile for 15mm DIN Rail

Ordering Information

Part Number	Description	
91.905/250mm	Carrier Profile for 7.5mm DIN Rail, 250 mm length	1 1 1 1
91.915/250mm	Carrier Profile for 15mm DIN Rail, 250 mm length	-
91.925/250mm	BUS PCB, 250 mm length	-
91.935/250mm	Carrier-rail Cover, 250 mm length	
91.945	Safety Cap – Right	
91.946	Safety Cap – Left	
91.955	Spring Contact Block	
2511120/1M	TS35x7.5mm DIN Rail, slotted, 1 meter length	
CA701-15/S	TS35x15mm DIN Rail, slotted, 1 meter length	
	Spring Contact Block — CUL US E249129	

^{*} Hole must be milled in enclosure base to accept spring contact block.





Part No	Page	Part No	Page	Part No	PagePart	No	Page
90.900	86	90.162	9	90.803	33-39	91.330	68
90.903	86	90.170	10	90.804		91.340	
90.905		90.171	10	90.807		91.345	71
90.910		90.172		90.808		91.360	
90.913		90.180		90.810		91.365	
90.915		90.181		90.810.1		91.380	
90.920		90.182		90.810.2		91.400	
90.923		90.190		90.810.3		91.420	
90.925		90.191		90.810.4		91.440	
				90.810.5			
90.930		90.192				91.443	
90.933		90.201		90.815		91.501	
90.935		90.201.1		90.820		91.502	
90.940		90.201.2		90.820.1		91.503	
90.943		90.202		90.820.2		91.520	
90.945		90.202.1		90.820.3		91.540	
90.950		90.202.2		90.820.4		91.543	
90.953		90.215		90.820.5		91.560	
90.955		90.230		90.825		91.570	
90.960		90.290		90.825.1	34	91.580	61
90.963	89	90.291	17	90.830	36,38	91.583	62
90.965	89	90.292	17	90.830.1	38	91.590	66
90.970	89	90.300	17	90.830.2	38	91.600	73
90.973	89	90.301	17	90.830.3	38	91.610	73
90.975		90.302	17	90.830.4	38	91.710	53
91.945		90.320		90.830.5		91.720	
91.946		90.321		90.830.6		91.730	
91.955		90.322		90.840		91.740	
90.001		90.350		90.840.1		91.750	
90.001.1		90.351		90.840.2		91.760	
90.001.2		90.352		90.840.3		91.800	
						91.800	
90.010		90.380		90.840.4			
90.010.1		90.381		90.840.5		91.801.1	
90.020		90.382		90.845		91.802	
90.020.1		90.410		90.845.6		91.803	
90.020.2		90.411		91.001		91.810	
90.030		90.412		91.010		91.811	
90.040		90.440		91.020		91.812	
90.040.1		90.441		91.030		91.813	
90.050		90.442		91.040		91.820	
90.050.1		90.470		91.050		91.821	
90.050.5	45	90.471		91.060	94	91.822	
90.060	45	90.472	22	91.070	94	91.830	80
90.070	46	90.500	23	91.080	95	91.831	81
90.080	46	90.501	23	91.201	50	91.832	81
90.080.1	46-47	90.502	23	91.201.1	50-72	91.840	82
90.090	47	90.530	24	91.202	50	91.841	82
90.100	47	90.531	24	91.203	52	91.842	83
90.100.1	47	90.532		91.220		91.850	
90.120	5	90.560		91.230		91.851	
90.121		90.590		91.235		91.852	
90.122		90.591		91.240		91.905/250mm	
90.130		90.592		91.243		91.915/250mm	
90.131		90.620		91.250		91.925/250mm	
90.132		90.621		91.255		91.935/250mm	
90.140		90.622		91.260			
90.141		90.680		91.270		93.001.21 93.001.5	
						2511120/1M	
90.142		90.681		91.280			
90.150		90.682		91.283		CA701-15/S	96
90.151		90.710		91.290			
90.152		90.740		91.300			
90.160		90.770		91.310			
90.161	9	90.800	33-39	91.320	69		

STANDARD TERMS AND CONDITIONS OF SALE

TITLE - Title to the products of ALTECH shall remain with ALTECH until payment is made in full by Customer. Such reservation of title is for the purpose of securing the purchase price and shall not relieve Customer of the duty to inspect the products upon receipt, to notify ALTECH of any deficiencies or defects, and to exercise due care in the use, installation, operation, and maintenance of the products when on the premise of the Customer or under the control of the Customer. Notwithstanding any reservation of title by ALTECH, risk of loss shall pass to customer at any time of shipment.

SHIPMENT AND DELIVERY - All orders for destination in the mainland United States (less Hawaii, Alaska and non-continental United States possessions) will be shipped F.O.B. Flemington, N.J. All destination, shipping and other charges shall be paid by the Customer in accordance with ALTECH's then current shipping and billing practices.

Delivery dates given in the acceptance of any order are approximate. ALTECH shall not be liable for delays in delivery or in performance due to causes beyond its reasonable control including acts of God, acts of Customer, acts of civil or military authority, fires, strikes or other labor disturbances, war, riot or delays in transportation. In the event of such delay, the date of delivery or performance shall be extended for a period equal to the time lost by reason of the delay.

PRICE - PRICES in any ALTECH publication are subject to change without prior notification. Catalog prices are based on prices published in the current price list. All written quotations are valid for thirty (30) days from the date of quotation. Customer shall pay all sales, use, excise or similar taxes whenever ALTECH must itself pay and/or collect such tax from Customer arising out of the sale.

PAYMENT - Customer agrees to make payment within thirty (30) days of date of the invoice from ALTECH. Customer agrees to pay a late payment charge of one and one-half percent (1.5% per month, or the maximum late payment charge permitted by applicable law, whichever is less, on any unpaid amount for each calendar month (or fraction thereof) that such payment is in default. Orders amounting to less than \$100.00 will be billed at \$100.00 plus freight. Full carton purchases are required. In the event of referral to an attorney for collection, reasonable attorney's fees for collection of the overdue amount shall be paid by Customer. In the event payment is not received within 30 days from the date of invoice, any discount shall be cancelled and the full list price will be due.

LIMITED WARRANTY - ALTECH warrants to Customer that the equipment purchases shall be free from defects in material and workmanship under normal use and service for a period of one year from shipment.

Written notice as an explanation of the circumstances of any claim that the equipment has proved defective in material or workmanship shall be given promptly by the Customer to ALTECH.

ALTECH will not be liable for any misuse, improper operations, improper installation, improper maintenance, alteration, modification, accident or unusual degradation of the equipment or parts due to an unsuitable installation environment.

No representation of other affirmation of facts, including but not limited to statements regarding capacity, suitability for use or performance of the equipment, shall be or be deemed to be a warranty or representation by ALTECH for any purpose, nor give rise to any liability or obligation of ALTECH whatsoever.

Customer's sole and exclusive remedy in the event of breach of warranty, as set forth herein, is expressly limited to (1) the correction of the defect by adjustment, repair, modification, or replacement, or (2) issuance of a credit or refund of the purchase price for the defective equipment at ALTECH's election and sole expense.

EXCEPT AS SPECIFICALLY PROVIDED IN THIS AGREEMENT, THERE ARE NO OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY EXTENDS ONLY TO THE CUSTOMER FROM ALTECH OR ITS AUTHORIZED DISTRIBUTOR.

LIMITATION OF LIABILITY - IN NO EVENT, SHALL ALTECH BE LIABLE FOR LOSS OF PROFITS, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER SIMILAR DAMAGES ARISING OUT OF ANY BREACH OF THIS AGREEMENT OR OBLIGATIONS UNDER THE AGREEMENT.

ALTECH SHALL NOT BE LIABLE FOR ANY DAMAGES CAUSED BY DELAY IN SHIPMENT, INSTALLATION OR FURNISHING OF EQUIPMENT OR SERVICES UNDER THIS AGREEMENT.

No action arising out of any claimed breach of this Agreement may be brought by either party more than two (2) years after the cause of action has accrued

PATENT INDEMNITY - ALTECH shall defend or settle any suit or proceeding brought against Customer based on a claim that any equipment made to ALTECH design and furnished hereunder constitutes an infringement of any existing United States patent, provided (ALTECH) is notified promptly in writing and is given complete authorization and information required for the defense, and ALTECH shall pay all damages and costs awarded against Customer, but shall not be responsible for any costs, expense or compromise incurred or made by Customer without ALTECH's prior written consent. If any equipment is in ALTECH's opinion likely to or does become the subject of a claim for patent infringement, ALTECH may at its option and expense procure for Customer the right to continue using the device, modify it to become non-infringing, but in the event ALTECH is not reasonably able to modify, substitute, or otherwise procure for Customer the right to continue using it, ALTECH will remove such equipment and refund to Customer the amount paid in excess of a reasonable rental for past use.

ALTECH shall not be liable for any infringement or claim based upon use of the equipment in combination with other equipment not supplied by ALTECH or with modifications made by Customer.

The foregoing states the entire liability of ALTECH to Customer arising from patent infringement.

SELLER'S REMEDIES - Should Customer fail to make any payment within ten (10) days of its due date, or fail to perform any other of the Customer's obligation hereunder upon thirty (30) days written notice, or should Customer be or become insolvent or be a party to any bankruptcy receivership proceeding prior to full payment of all amounts payable hereunder, ALTECH may: (a) with or without demand or notice to customer declare the entire amount unpaid immediately due and payable; (b) enter upon the premises where the equipment may be found and remove it (Customer shall assemble the equipment and make it available to ALTECH at a place reasonably convenient to both parties and shall permit and assist ALTECH in effecting the retaking and removal of the equipment); and (c) sell any or all the equipment as permitted under applicable law, applying the proceeds of the sale to payment of the expenses of retaking, repairing and selling the equipment, reasonable attorney fees and to the satisfaction of all indebtedness then due and unpaid under this Agreement. Any surplus shall be paid to Customer and any deficiency shall be paid to ALTECH by Customer.

The remedies provided herein shall be cumulative and in addition to all other remedies provided by law or equity or under the Uniform Commercial Code.

 $\label{eq:GOVERNING LAW} \textbf{-} \text{ This agreement will be governed by the Laws} \\ \text{of the State of New Jersey.}$

GENERAL - This Agreement shall only become effective and binding when either (a) it has been accepted and executed by an authorized representative of ALTECH, or (b) the equipment has been shipped to Customer, with or without acceptance in writing hereon. Notice of acceptance is hereby waived by Customer. Customer hereby acknowledges receipt of a true and complete copy hereof.

No addition to or modification of any of the Terms and Conditions of Sale as they appear herein shall be binding upon ALTECH unless signed in writing by duly authorized representative of ALTECH in Flemington, N.J.

Typographical and clerical errors in quotations, orders and acknowledgments are subject to correction.

This Agreement is not assignable without the prior written consent of ALTECH. Any attempt to assign any of the rights, duties or obligations of this Agreement without such consent is void.

If any provision or provisions of this Agreement shall be held to be invalid, illegal or unenforceable, the validity, legality and enforceability, of the remaining provisions shall not in any way be affected or impaired thereby.

ALTECH is not responsible for failure to fulfill its obligation under this Agreement due to causes beyond its control, or except as agreed herein.

THE CUSTOMER ACKNOWLEDGES THAT HE HAS READ THE AGREEMENT, UNDERSTANDS IT, AND AGREES TO BE BOUND BY ITS TERMS AND CONDITIONS. FURTHERMORE, THE CUSTOMER AGREES THAT IT IS THE COMPLETE AND EXCLUSIVE STATEMENT OF THE AGREEMENT BETWEEN THE PARTIES, WHICH SUPERSEDES ALL PROPOSALS OR PRIOR AGREEMENTS, ORAL OR WRITTEN, EXPRESSED OR IMPLIED, AND ALL OTHER COMMUNICATIONS BETWEEN THE PARTIES RELATING TO THE SUBJECT MATTER OF THIS AGREEMENT.

Here are other great catalogs available from Altech!

Circuit Protection Devices



Altech carries DIN Rail mounted UL508 Manual Motor Controllers/ Miniature Circuit Breakers, UL489 Miniature Circuit Breakers and UL1077 Supplementary Protectors. The UL489 versions are 17.5mm wide, thermal magnetic, 240V, 480Y/277V AC, 50/60Hz, 125 and 250 VDC models, with short circuit interrupt capacity of 10kA, a positive trip indicator, and are line/load reversible. The UL1077 versions are DIN rail mounted, 17.5mm wide, thermal magnetic, 480Y/277V AC, 50/60Hz, a short circuit withstand capacity 10kA, have a positive trip indicator.

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Altech offers a wide range of DIN Rail or panel mount cable interface modules, relay interface modules, carrier modules, custom designed modules and industrial relays. Cable to connector models include: D-Sub connectors, ribbon cable connectors, and Dip socket connectors to terminals. Standard relay modules from 1 to 16 channels, and safety relay modules from 1 to 16 channels and up to 10 poles are included. The catalog also contains industrial and slimline relays and custom designed interface modules.

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Altech offers a NEW Terminal Block catalog with the most competitively priced blocks in the industry. We feature screw and spring clamp models for DIN rail and panel mount applications. This advanced line of wire termination products will increase your design options and help to get the job done more efficiently. Our line of blocks include feed-through (single, double or triple level), distribution, ground, fuse, disconnect, thermocouple, surge suppressor and indicator. A wide variety of accessories, tools and ferrules are available.

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Altech's line of Motor Disconnect Switches are UL 508 listed as Manual Motor Controllers for AC Motor Starting Across-the-line and AC General use. This new 24 page catalog includes the 3 different handle designs, which are all available in gray/black or yellow/red housings. Electrical ratings are 25-150A/600V. The switches are non-fused DIN Ratil mountable. Neat features include: snap-on auxiliary switches, door mounting kit and a retrofit 30A fuse holder. Also featured are Enclosed Motor Disconnect Switches & Fused (plastic only) versions (30A), available in plastic, aluminum, sheet metal or stainless steel.

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«**FORSTAR**» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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Электронная почта: ocean@oceanchips.ru

Web: http://oceanchips.ru/

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