

Description

Single pole, miniaturised, aircraft style thermal circuit breaker with tease-free, trip-free, snap action mechanism and push/pull on/off manual actuation (M-type TO CBE to EN 60934). An indicator band on the push button clearly shows the tripped/off position. Threadneck panel mounted, available in metric and US (MS 3320) configurations. Advanced two-chamber design contributes to fail-safe operation. Temperature compensated from -55° to +125 °C, with optional auxiliary contacts, and fully approved for use on a wide range of aircraft and equipment. Full specification ensures suitability for the most demanding applications. For three pole version see type 583.

Typical applications

Aircraft systems and equipment (fixed wing and helicopters); other extra low voltage wiring applications; defence equipment; communications systems.

Standard current ratings and typical volt drop values

Current rating (A)	Volt drop (mV)	Current rating (A)	Volt drop (mV)
1	750	10	190
2	520	15	190
2.5	400	20	200
3	360	25	170
4	350	30	160
5	260	35	150
7.5	230		

Approvals

Authority	Voltage ratings	Current ratings
LN 29886		
VG 95345 T06		
MS 3320, MS 3320 V		
QPL		
UL	AC 250 V, 50/60 Hz DC 75 V	1...25 A 1...35 A



without auxiliary contact **483-...** with auxiliary contact

Technical data

Voltage rating	AC 115 V (400 Hz); DC 28 V (higher voltage ratings upon request)	
Current rating range	1...35 A	
Auxiliary circuit	0.5 A, DC 28 V	
Typical life	20,000 operations mechanical or 10,000 operations at I _N (≤ 25 A) 5,000 operations at I _N (30 + 35 A)	
Ambient temperature	-55...+125 °C (-67...+257 °F)	
Insulation co-ordination (IEC 60664 and 60664A)	rated impulse withstand voltage 1.5 kV	pollution degree 3
Dielectric strength (IEC 60664 and 60664A) operating area main to aux. circuit	test voltage AC 1,500 V AC 1,500 V	
Insulation resistance	> 100 MΩ (DC 500 V)	
Interrupting capacity I _{cn}	AC 115 V (400 Hz): ≤ 4 A 1,000 A 5 A 2,000 A 7.5...35 A 2,500 A DC 28 V: 1...25 A 6,000 A 30 + 35 A 4,000 A	
Degree of protection (IEC 60529/DIN 40050)	operating area IP40 terminal area IP00	
Vibration (sinusoidal)	15 g (70-2000 Hz), ± 0.76 mm (5-70 Hz) to VG 95210, sheet 19, IEC 60068-2-6, test Fc/ISO 7137	
Vibration (random)	16.4 g rms, 0.2 g ² /Hz ± 1.5 dB to VG 95210, sheet 29, ISO 7137	
Acceleration	17 g, to ISO 2669	
Shock	75 g (11 ms) to VG 95210, sheet 28, IEC 60068-2-27, test Ea/ISO 7137	
Corrosion	96 hours at 5 % salt mist, severity A 48 hours at 20 % salt mist, severity B to VG 95210, sheet 2, IEC 60068-2-11, test Ka/ISO 7137	
Humidity	240 hours at 95 % RH, to VG 95210, sheet 7, IEC 60068-2-3, test C/ISO 7137	
Explosion	to VG 95210, sheet 10, MIL-STD-202, meth. 109	
Altitude	≤ 25,000 m above sea level	
Mass	max. 29 g with auxiliary contact max. 25 g without auxiliary contact	
Weight reduction through aluminium threadneck: approx. 3 g		

Ordering information

Type No.

483 single pole, with temperature compensation

Mounting

G threadneck panel mounting, standard

V threadneck panel mounting, high vibration performance

Threadneck design

1 M12x1x6.4x8.8 dia. with mounting plate (aux. contact version)

2 15/32-32UNx6.4x7.8 dia. (without aux. contact)

3 MJ12x6.4x8.8 dia. (without aux. contact)

4 M12x1x6.4x8.8 dia. (without aux. contact)

5 7/16-32UNx6.4x7.8 dia. (without aux. contact)

6 M12x1x9.4x8.8 dia. (without aux. contact)

7 7/16-32 UNx6.4x7.8 dia. with mounting plate (aux. contact version)

8 as 483-G1...but with aluminium threadneck (only mounting -G and aux. contact versions S1, S5)

Hardware for threadneck (washers)

0 without hardware

1 wave washer 12/15 - mounted

2 mounted washer 12.1/17.2 - mounted

3 mounted washer 11.3/14.9 - mounted (threadneck design 5,7 only)

4 mounted washer 12/15 - mounted

5 tooth washer 12.1/17.2, bulk shipped

Hardware for threadneck (nuts)

0 without hardware

1 hex nut M12x1 (threadneck design 1, 4, 6 only)

2 hex nut 15/32-32UN (threadneck design 2 only)

3 hex nut 7/16-32UN (threadneck design 5, 7 only)

4 hex nut M12x1, aluminium, fitted (threadneck design 8 only)

5 hex nut MJ12x1 (only with threadneck design 3)

6 hex nut M12x1, bulk shipped (threadneck design 1,4,6)

Terminal design (main terminals)

K screws terminals with metric thread

1 K14 (M4, MJ4)

J screw terminals with inch thread

1 J14 (8-32UNC-2B)

2 J17 (8-32UNC-2B)

3 J25 (6-32UNC-2B)

Characteristic curve

M1 thermal, 1.15-1.38 I_N

Terminal screws

A Phillips screw M4x6

B Phillips screw 8-32UNC-2Ax6 (MS 51957-41)

C Phillips screw 6-32UNC-2Ax6 (MS 51957-26)

D slotted flat head screw M4x6

E hex screw with Phillips head 8-32UNC-3A-9.5

K hex screw with Phillips head 8-32UNC-3Ax7.6

L Phillips screw MJ4x6

M as "K" but bulk shipped

Z without accessories

Terminal washers

0 without lock washer

1 lock washer B4

2 lock washer 4.3 (MS 35338-137)

3 lock washer B4 and washer 4.4/9.5

4 lock washer 3.7 (MS 35338-136)

5 lock washer 4.3/9

Auxiliary contact

S0 without auxiliary contact

S1 with auxiliary contact (N/C) connector to EN3155-016M2018, size 20

S5 with polarized auxiliary contact (N/C)

Barrier

Z without barrier (standard)

Colour of the push button

blank: black (standard) (e. g. 7.5)

A green (e. g. 7.5)

G green, marking to EN (e. g. 7 1/2)

N black, marking to EN (e. g. 7 1/2)

Current ratings

1...35 A

483 - G 4 1 1 - K 1 M1 - A 1 S0 Z . - 5 A ordering example

Ordering information for approved devices

483-G411-K1M1-A1S0ZN

Metric threadneck M12x1 and terminal design -K14 (M4x6), listed by the German Materialamt der Bundeswehr to VG 95345 T06.

483-G111-K1M1-A1S1ZN

Metric threadneck M12x1 and terminal design -K14 (M4x6) and auxiliary contact -Si, listed by the German Materialamt der Bundeswehr to VG 95345 T06.

483-G533-J1M1-B2S0ZN (MS 3320)

Threadneck size 7/16-32UNSx6.4 and terminal design -J14 (inch thread 8-32), approved to MS 3320.

483-V533-J1M1-B2S0ZN (MS 3320-V)

Threadneck size 7/16-32UNSx6.4 and terminal design -J14 (inch thread 8-32), approved to MS 3320-V.

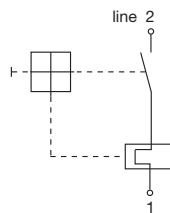
483-G533-J3M1-C4S0Z (483-TC-G11-J25)

Threadneck size 7/16-32UNSx6.4 and terminal design -J25 (inch thread 6-32), listed by the German Materialamt der Bundeswehr to VG 95345, part 6.

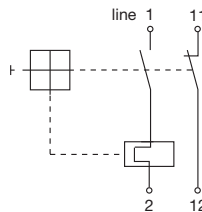
483-G814-K1M1-A1S1ZN

Aluminium threadneck M12x1x6.4x8.8 dia.

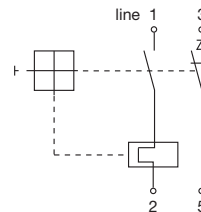
Internal connection diagrams



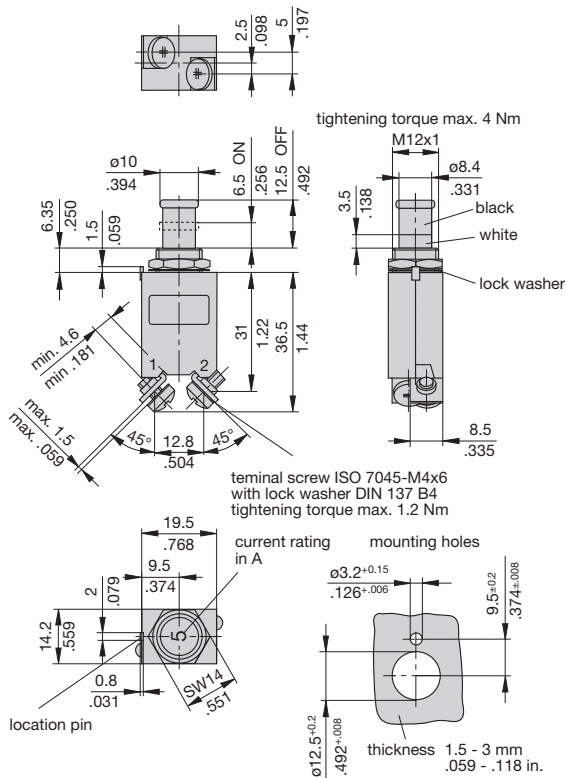
with auxiliary contact



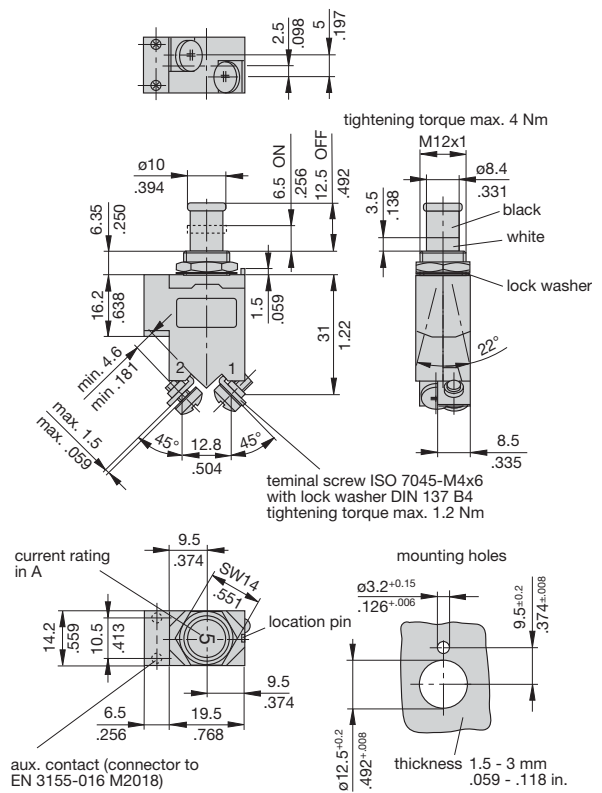
with polarized auxiliary contact



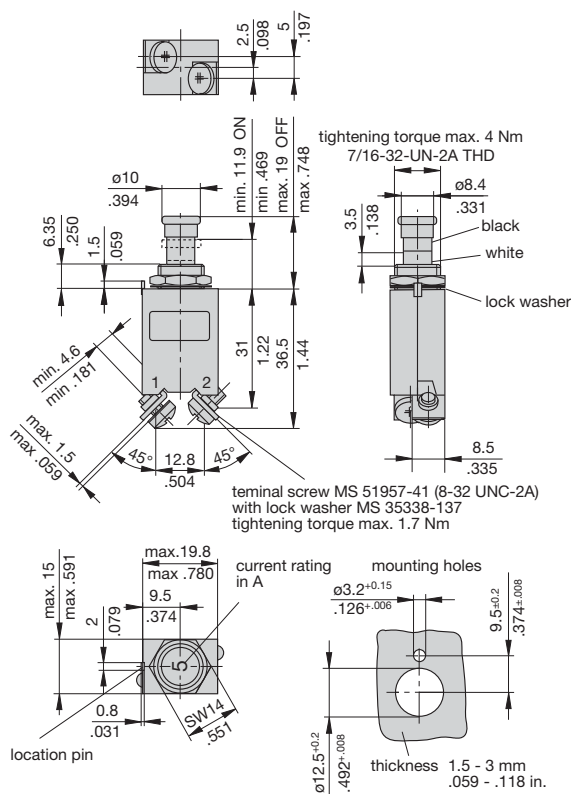
Dimensions 483-G411-K1M1-A1S0ZN (VG 95345 T06)



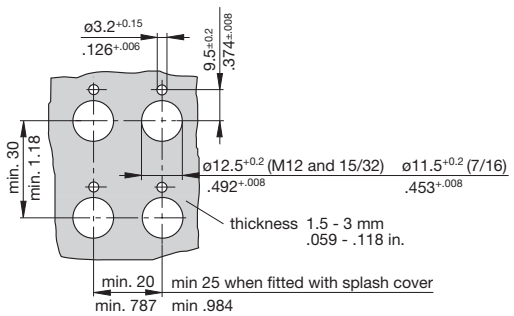
Dimensions 483-G111-K1M1-A1S1ZN (VG 95345 T06)



Dimensions 483-G533-J1M1-B2S0ZN (MS 3320)



Mounting



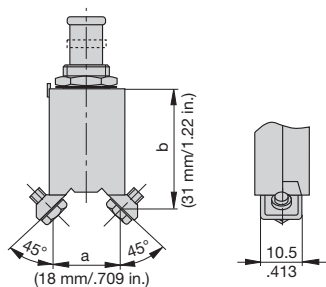
This is a metric design and millimeter dimensions take precedence ($\frac{\text{mm}}{\text{inch}}$)

Other main terminal and threadneck designs

Terminal design -J2

Terminal distances to:

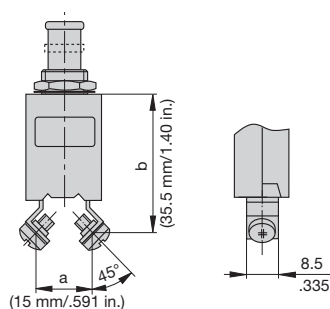
MS 14 105 (a, b)
MS 14 153 (a, b)
MS 22 073 (a)
MS 22 074 (a)
MS 25 244 (a)
MS 25 373 (a, b)



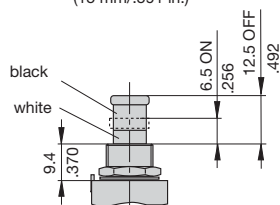
Terminal design -J3

Terminal distances to:

MS 26 574 (a, b)



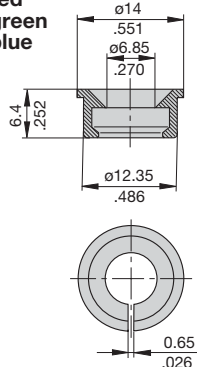
Mounting -G6



Accessories

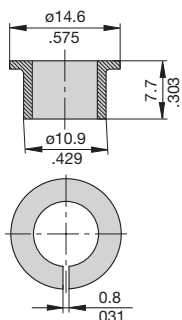
Identification collar to be snapped on the push button

Y 307 004 01 black
Y 307 004 02 white
Y 307 004 03 red
Y 307 004 04 green
Y 307 004 05 blue

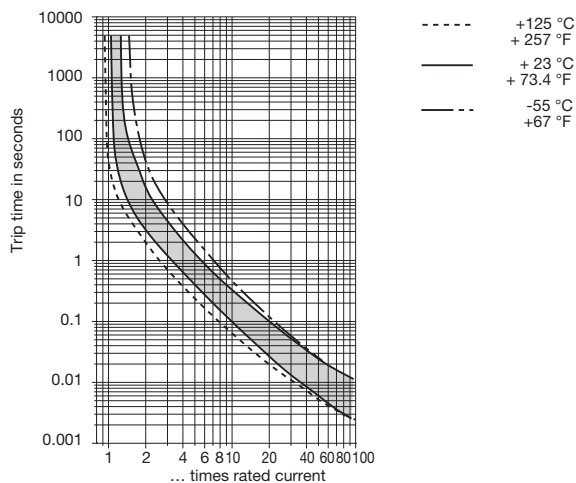


Lock out ring to block the push button in OFF position

Y 307 005 01 red
Y 307 005 02 black



Typical time/current characteristics



Accessories

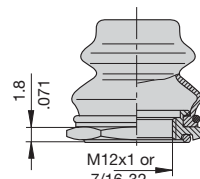
Splash cover/hex nut assembly with O ring (IP66 and IP67)

(approved to VG 95345, T23)

X 200 801 08 nickel plated nut, transparent cover

X 200 801 03 matt black finish nut, black cover

X 200 801 09 matt black finish nut 7/16-32, black cover

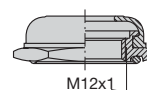


Splash cover/hex nut assembly with O ring (IP54)

(approved to VG 95345, T23)

X 200 802 01 nickel plated nut

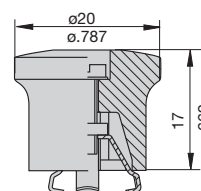
X 200 802 02 matt black finish nut



Actuator extension (black) to be fitted on the push button

(approved to VG 95345, T23)

X 200 803 01



This is a metric design and millimeter dimensions take precedence ($\frac{\text{mm}}{\text{inch}}$)

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.

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