

Description

Three 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 (AS 14154) configurations. Advanced two-chamber design minimises contact contamination to provide fail-safe operation. Temperature compensated with optional auxiliary contacts, and fully approved for use on a wide range of aircraft and equipment.

Various dummies are available without protective function, allowing connection of pre-installed wiring without loads.

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

Approvals

Authority	Standard	Voltage ratings	Current ratings
Bw	LN 29887	AC 115/200 V 400 Hz	5 ... 25 A
Airbus	EN 2996-004	AC 115/200 V 400 Hz	1 ... 25 A
Airbus	EN 2996-005	AC 115/200 V 400 Hz	1 ... 25 A
Bw	VG 95345-11	AC 115/200 V 400 Hz bzw. DC 28 V	1 ... 25 A
Dept. of the Navy	AS14154	AC 115/200 V 400 Hz	1 ... 20A

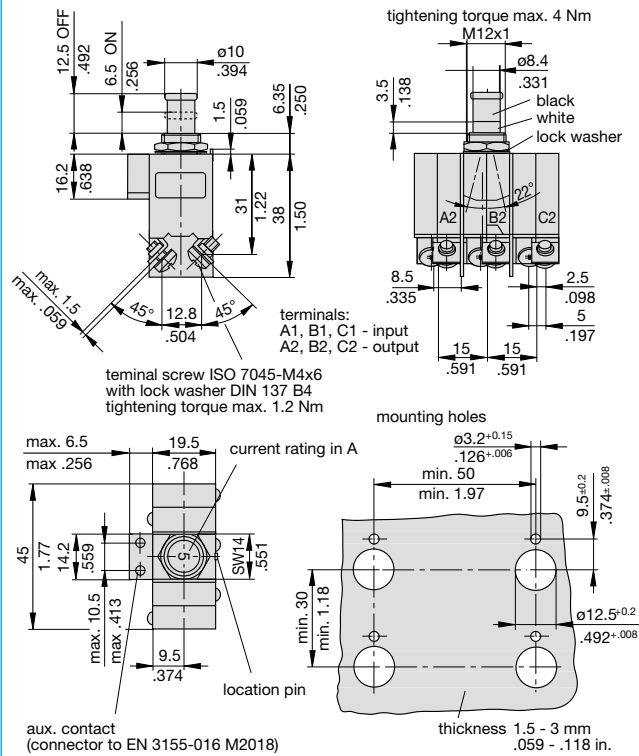


without auxiliary contact **583-...** with auxiliary contact

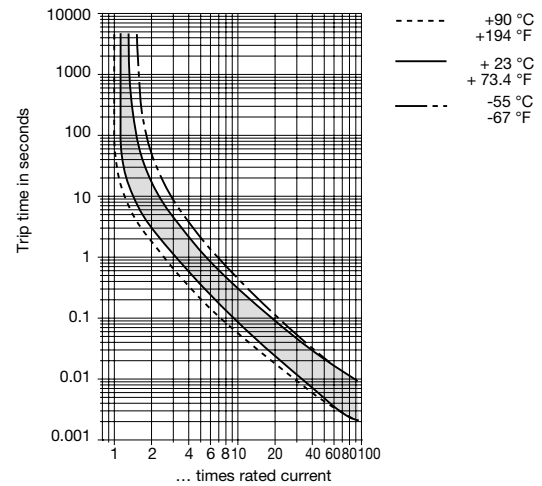
Technical data

Voltage rating	3 AC 200 V (300 Hz to 800 Hz); DC 28 V		
Current rating range	1...30 A		
Auxiliary circuit	0.5 A, DC 28 V		
Typical life	20,000 operations mechanical 10,000 operations at I _N (≤ 25 A) 4,000 operations at I _N (30 A)		
Ambient temperature	-55...+125 °C (-67...+257 °F) ≤ 15 A -55...+90 °C (-67...+194 °F) > 15 A		
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 pole/pole main to aux. circuit	test voltage AC 1,500 V AC 1,500 V AC 1,500 V		
Insulation resistance	> 100 MΩ (DC 500 V)		
Interrupting capacity I _{cn} 3 AC 200 V (400 Hz):	≤ 4 A 5 A 7.5...25 A 30 A	1,000 A 2,000 A 2,500 A 1,500 A	
	DC 28 V:	1...25 A 30 A	6,000 A 4,000 A
Degree of protection (IEC 60529/DIN 40050)	operating area IP40 terminal area IP00		
Vibration (sinusoidal)	10 g (57-2000 Hz), ± 0.76 mm (5-57 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, IEC 60068-2-6, test Fc, ISO 7137		
Acceleration	17 g, to ISO 2669		
Shock	50 g (11 ms), to VG 95210, sheet 28, IEC 60068-2-27, test Ea, ISO 7137		
Corrosion	96 hours at 5 % salt mist 48 hours at 20 % salt mist 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. 67 g with auxiliary contact max. 63 g without auxiliary contact		
Mass reduction through aluminium threadneck approx. 3 g			

Dimensions 583-G111-K1M1-A1S1UN (VG 95345 T11)

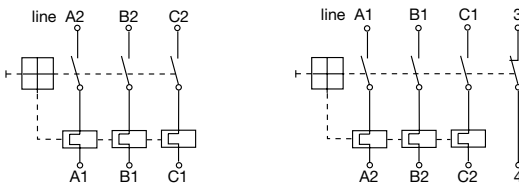


Typical time/current characteristics

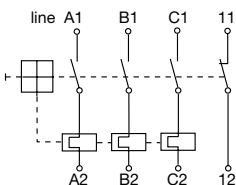


Internal connection diagrams

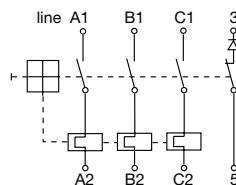
with auxiliary contact EN 2996-004



with auxiliary contact VG 95345 T11



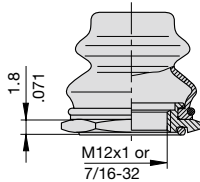
with polarized auxiliary contact EN 2996-005



Accessories

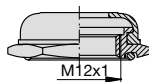
Splash cover/hex nut assembly with O ring (IP66 and IP67)
(approved to VG 95345, part 23)

- 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
- X 200 801 12 with blackened nut and transparent cover



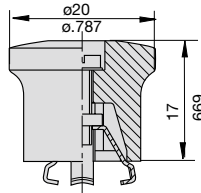
Splash cover black/hex nut assembly with O ring (IP54)
only for threadneck nut M12 (to VG 95345, sheet 23)

- X 200 802 01 nickel plated nut
- X 200 802 02 matt black finish nut



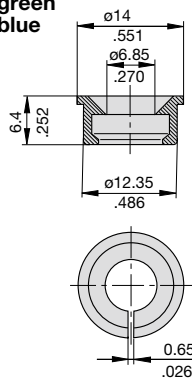
Actuator extension (black) to be fitted on the push button
(approved to VG 95345, T23)

- X 200 803 01



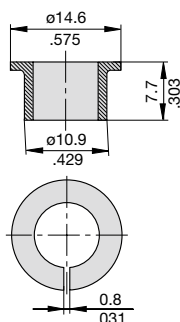
Identification collar to be snapped on the push button

- 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



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.