② 国际 Thermal automotive Mini-CBE 1626-...

Description

Single pole, thermal miniaturised circuit breaker designed for automotive applications. Fits into fuse blocks designed to ISO 8820-3, Type F.

Automatic reset (for DC 12 V only) and open circuit (modified reset to SAE) version optional. Open circuit version ensures contacts staying open as long as power is on. The circuit breaker will reset after the load is removed. Particularly suitable for installation in inaccessible locations

Current ratings correspond to those of blade fuses. Clear colour coding of the ratings: blade fuse and circuit breaker of the same colour have the same rating.

Breakers rated 7.5 A through 30 A have a fast characteristic curve and only hold 70 % of their rated current continuously.

US patent number: US 8,576,042,B2

Typical applications

Protection of electrical systems of passenger cars, trucks, buses, watercraft, extra low voltage wiring systems.

Ordering information

1626	single pole thermal Mini-CBE with standard characteristic curve									
	Version, according to SAE J553									
type 1, DC 12 V automatic reset										
	2	type 2, DC 12 V modified reset								
	3	type 3, DC 24 V with reset button								
	3H type 3*, DC 24 V with reset button and manual release facil									
Current ratings										
		5 7	7.5	10	15	20	25	30 A		

Current ratings, typical voltage drop values and colour coding

Current rating (A)	Voltage drop (mV)	Housing cap colour
5	< 150	light brown
7.5	< 150	brown
10	< 150	red
15	< 150	blue
20	< 150	yellow
25	< 150	white
30	< 150	light green



Technical data					
Voltage rating	1626-1/-2: DC 12 V 1626-3/-3H: DC 12 V, DC 24 V				
Max. voltage rating	1626-3/-3H. DC 12 V, DC 24 V				
	1626-3/-3H: DC 29.0 V				
Current ratings	530 A				
	5 A: medium characteristic curve 7.530 A: fast characteristic curve				
Service short-circuit					
breaking capacity	300 operations at 2 x I _N				
Ambient temperature	-40+85 °C (-40+185 °F)				
	(for higher temperatures please enquire)				
Reset period for 1626-1 (at 23 °C)	≤ 15 s				
Reset period for 1626-2					
(at 23 °C) after 5 sec at					
rated voltage	< 35 s				
Degree of protection (IEC 60529)	operating area IP40 (-3)				
(ILO 00329)	operating area IP50 (-1, -2)				
	terminal area IP00				
Ultimate short-circuit					
breaking capacity	≥ 3 break operations at 150 A, or				
	≥ 1 break operation at 2,000 A				
Vibration	10 g (57-500 Hz), ± 0.38 mm (10-57 Hz)				
	to IEC 60068-2-6, test Fc 10 frequency cycles/axis				
	SAE-J553, Step No. 14, § 4.2.7.1.5				
Shock	50 g (11 ms)				
	to IEC 60068-2-27, test Ea				
	SAE-J553, Step No. 14, § 4.2.7.1.6				
Corrosion	48 hrs in 5 % salt mist,				
	to IEC 60068-2-11, test Ka				
L luma i ditu	SAE-J553, Step No. 14, § 4.2.7.1.3				
Humidity	240 hrs in 95 % RH, to IEC 60068-2-78, test Cab				
	SAE-J553, Step No. 14, § 4.2.7.1.2				
Mass	approx. 3 g				
	11 - 3				

Caution

It is good practice to switch off the vehicle's ignition system before manually releasing or re-setting the circuit breaker. Free travel of the reset button must be ensured! Please ensure to push in the actuator smoothly and completely.

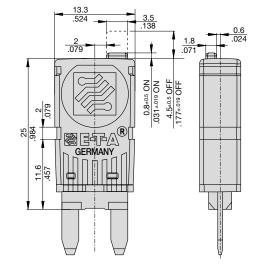
All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.

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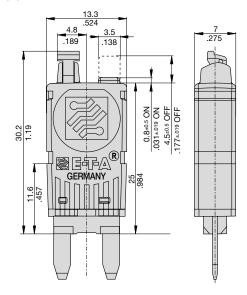
Dimensions

1626-1 / 1626-2 25 984 GERMANY 409

1626-3

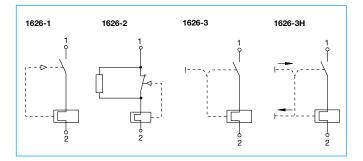


1626-3H

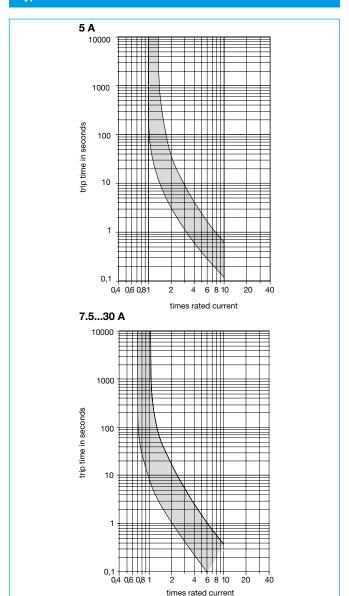


This ist a metric design and millimeter dimensions take precedence (mm inch)

Internal connection diagrams



Typical time/current characteristic curve at +23 °C / +73.4 °F



The time/current characteristic curve depends on the ambient temperature prevailing. In order to eliminate nuisance tripping, please multiply the circuit breaker current ratings by the derating factor shown below. See also

Ambient temperature °F Ambient temperature °C	-40 -40	-22 -30	-4 -20	+14 -10	+32 0	+50 +10
Derating factor	0.73	0.78	0.82	0.86	0.91	0.95
Ambient temperature °F Ambient temperature °C	+73.4 +23	+104 +40	+122 +50	+140 +60	+158 +70	+185 +85
Derating factor	1	1.09	1.16	1.25	1.33	1.43