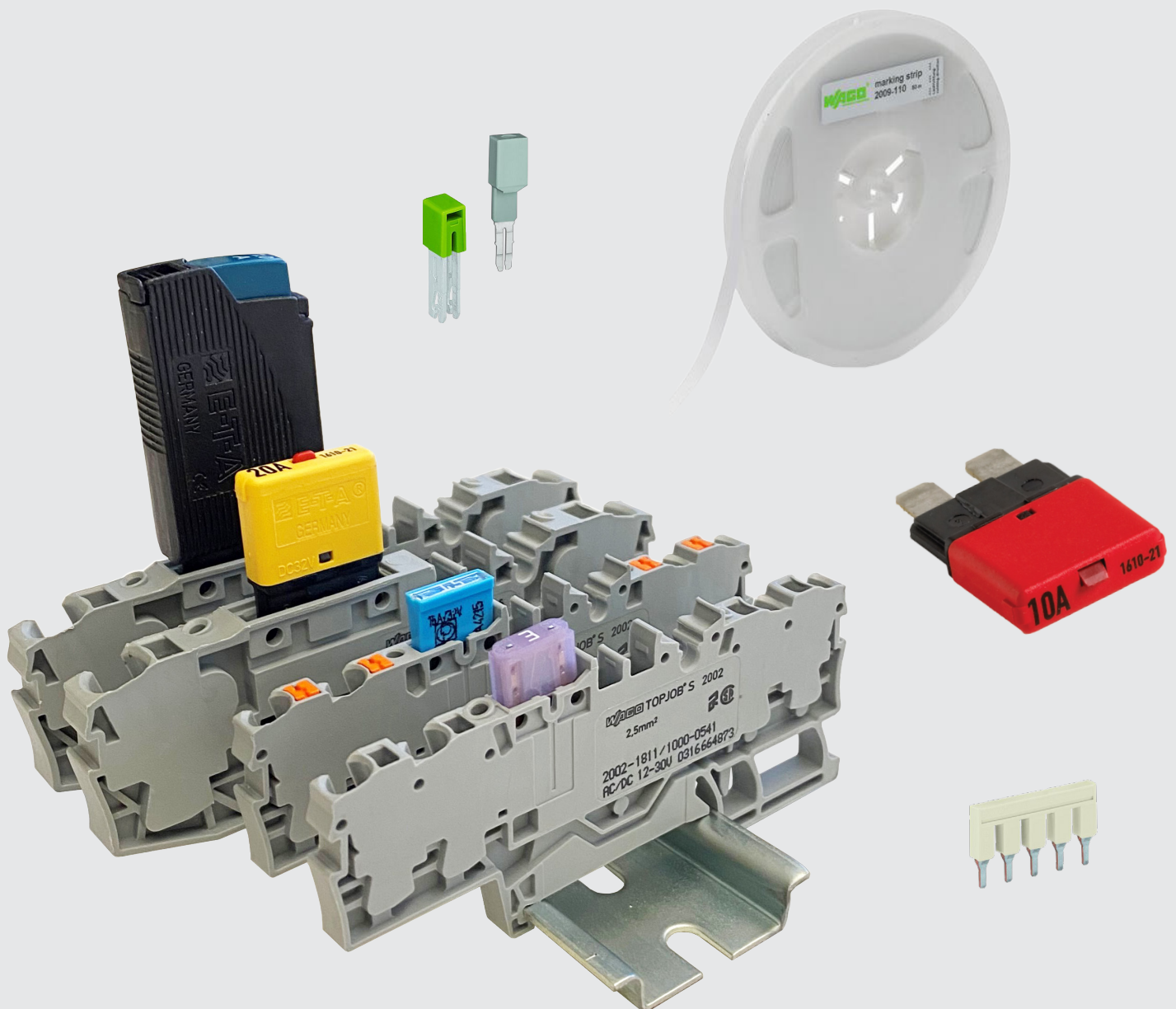




Pluggable Thermal Circuit Breakers and Compatible Terminal Blocks



DIN Rail Mount Pluggable Thermal Circuit Breakers

DIN rail mount pluggable miniature thermal circuit breakers are used for protection of power distribution systems, automation systems, and process control applications. The wide variety of circuit breakers has unique characteristics that tailor to the needs and performance of many different applications.

The compatible WAGO carrier terminal block uses CAGE CLAMP® connection technology, reducing wiring time and providing connections that are corrosion-resistant, temperature cycling resistant & maintenance-free. An excellent alternative to traditional fusing methods.

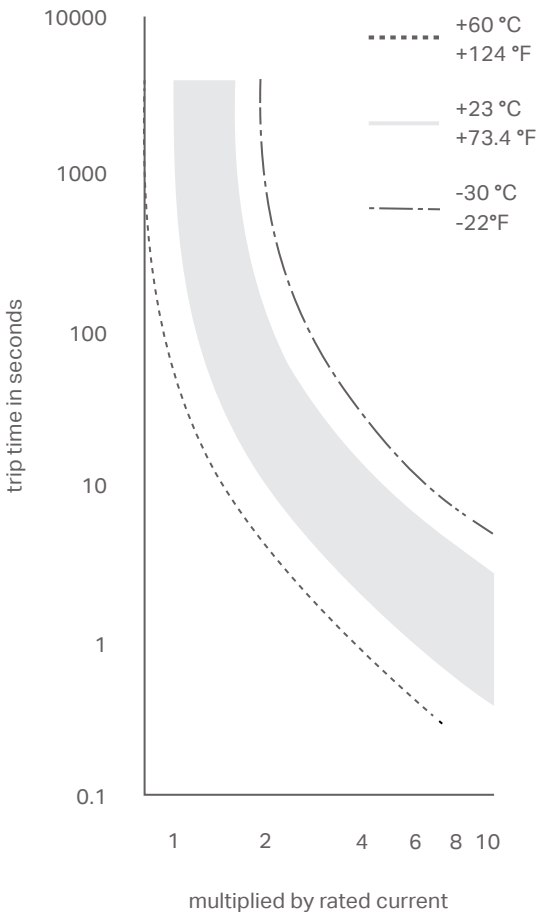


Miniaturized Thermal Automotive Circuit Breaker

Product width: 9.8 mm
On-off switch

Description	Item No.	Units
15 A, 28 VDC	51014338	1
20 A, 28 VDC	51014339	1
25 A, 28 VDC	51014340	1

Typical time/current characteristics at +23 °C/+73.4 °F

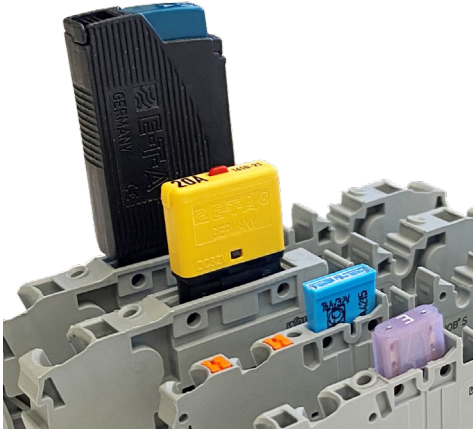


Technical Data	
Voltage Rating	DC 28 V
Current Ratings	3 ... 25 A (30 A upon request)
Typical Life	6,000 operations at I_N 3,000 operations at $2 \times I_N \leq 20$ A 1,000 operations at $2 \times I_N \leq 25$ A
Ambient Remperature	-30...+60 °C (-22...140 °F)
Vibration	3 or 4 A: 8 g (57-500 Hz) ± 0.65 mm (10-57 Hz) 5...25 A: 10 g (57-500 Hz) ± 0.76 mm (10-57 Hz) to IEC 60068-2-6, test Fc,10 frequency cycles/axis
Shock	3 or 4 A: 35 g (11 ms)
	5...25 A: 50 g (11 ms) to IEC 60068-2-27, test EA
Corrosion	96 hours at 5% salt mist, to IEC 60068-2-11, test Ka
Humidity	240 hours at 95% RH to IEC 60068-2-3, test Ca

Thermal Circuit Breaker

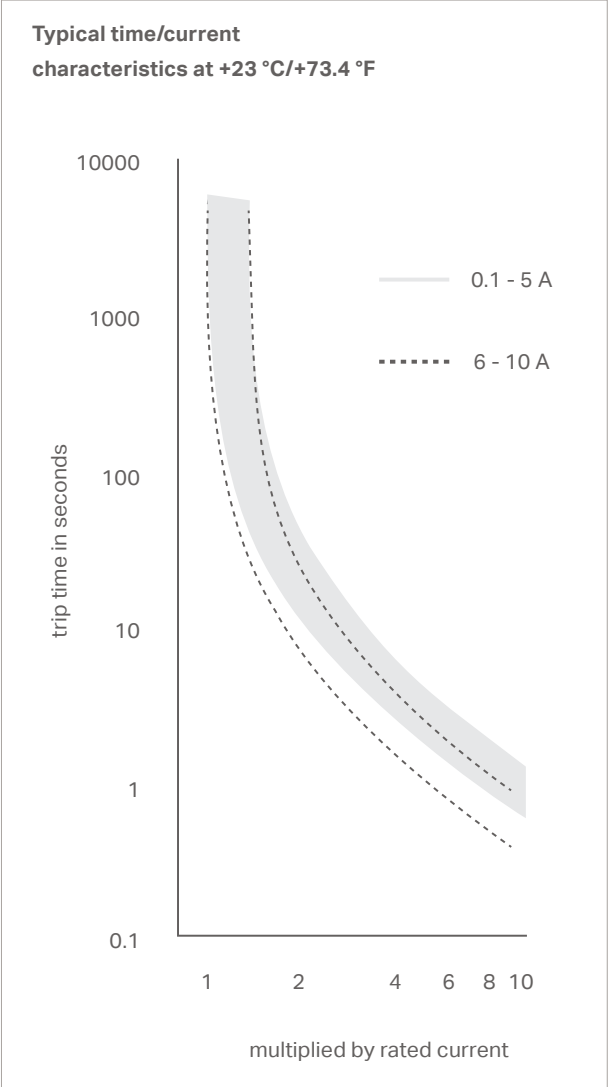


Product width: 8.2 mm
On-off switch; Plug-in type



Technical Data		
Voltage Rating	AC 250 V; DC 65 V	
Current Ratings	0.1...10 A	
Typical Life	3,000 operations at 1 x IN	
Rated Voltage	(low-resistive) 500 operations at 2 x IN (inductive)	
Ambient Temperature	-20...+60 °C (T 60) -4...+140 °F	
Insulation Co-Ordination (IEC 60664 and 60664A)	Rated Impulse Withstand Voltage	Pollution Degree
	2.5 kV	2
	Reinforced insulation in operating area	
Insulation Resistance	>100 MΩ (DC 500 V)	
Interrupting Capacity	AC 250 v 2,000 A	
(UL 1077)	DC 65 V: 200 A	
Vibration	5 g (57-500 Hz) ±0.38 mm (10-57Hz) to IEC 60068-2-6, test Fc 10 frequency cycles/axis	
Interrupting Capacity	AC 250 V: 2,000 A	
Shock	25 g (11 ms) to IEC 60068-2-27, test Ea	
Corrosion	96 hours at 5% salt mist, to IEC 60068-2-11, test Ka	
Humidity	240 hours at 95% RH to IEC 60068-2-3, test Ca	

Description			Item No.	Units
0.10 A	250 VAC	65 VDC	51216518	1
0.25 A	250 VAC	65 VDC	51012494	1
0.50 A	250 VAC	65 VDC	51012495	1
1.0 A	250 VAC	65 VDC	60415643	1
2.0 A	250 VAC	65 VDC	60494163	1
3.0 A	250 VAC	65 VDC	51012498	1
4.0 A	250 VAC	65 VDC	51012499	1
5.0 A	250 VAC	65 VDC	51012500	1
6.0 A	250 VAC	65 VDC	51012501	1
7.0 A	250 VAC	65 VDC	51014523	1
8.0 A	250 VAC	65 VDC	51012502	1
10.0 A	250 VAC	65 VDC	51012503	1



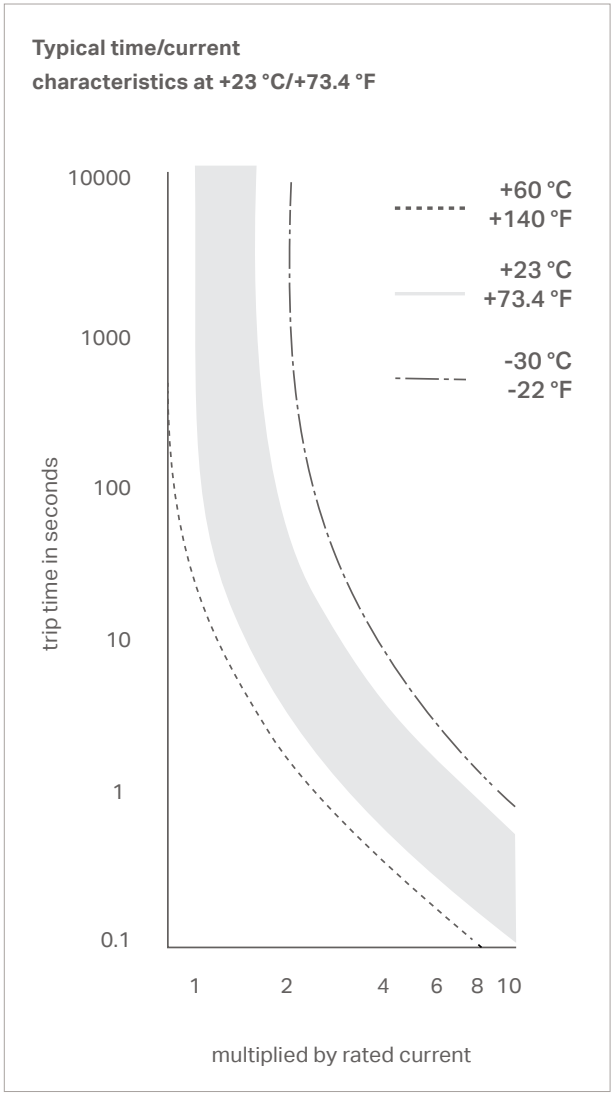
Thermal Automotive Circuit Breaker



Product width: 6 mm
Standard fuse block mounting
Color housing

Technical Data	
Voltage Rating	DC 32 V
Current Ratings	6 ... 30 A
Service Short-Circuit Breaking Capacity	300 operations at ≤ 50 A
Ambient temperature	-30...+60 °C (-22...140 °F)
Ultimate Short-Circuit Breaking Capacity	≥ 3 break operations at 150 A, or 1 break operation at 2,000 A
Vibration (with mounting socket 12)	5 g (57-500 Hz) ±0.38mm (10-57 Hz) to IEC 60068-2-6, Test Fc,
Shock (with mounting socket 12)	10 frequency cycles/axis 25 g (11 ms) to IEC 60068-2-27, Test EA
Corrosion	96 hours at 5% salt mist, to IEC 60068-2-11, test Ka
Humidity	240 hours at 95% RH to IEC 60068-2-3, test Ca

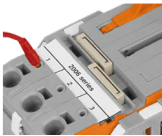
Description	Item No.	Units
15 A, 28 VDC	60404858	1
20 A, 28 VDC	51014617	1
25 A, 28 VDC	60404900	1
30 A, 28 VDC	60404899	1



Modular design allows for combination of breakers, fuses, and disconnect terminal blocks in the same footprint.

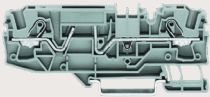
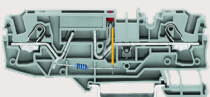
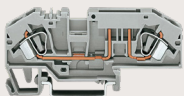
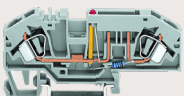


Compatible terminal blocks in both WAGO Classic & TOPJOB® S terminal block families.



Easy commoning via push-in jumpers. Test slots are available on both sides of the terminal for direct measurement.

Compatible Terminal Blocks

Type	Series	Part Number		Width	Cross Section	V/A Ratings	
TOPJOB® S Automotive Fuse or Circuit Breakers	2006	 2006-1681	 2006-1681/xxx-xxx	7.5mm*	20-8 AWG	30 A/600 V	Various UL rated versions available
ACCESSORIES							
	Series	Accessory Description		Width		V/A Ratings	
End & Intermediate Plate	2006	 2006-1691 gray	 2006-1692 orange	1mm			
Push-In Type Jumper Bar (insulated)	2006	 2006-402 2-way; light gray	 2006-403 3-way; light gray			I _N 41 A	Test plug adapters & modular connectors for jumper slots are available for TOPJOB® S family
		 2006-404 4-way; light gray	 2006-405 5-way; light gray				
		 2006-433 1 to 3; light gray	 2006-434 1 to 4; light gray			I _N 41 A	
		 2006-435 1 to 5; light gray					
Marking Solutions	2009	 2009-110 Continuous Strip	 2009-115 WMB Inline	11mm; 5.2mm			Marked with SmartPRINTER (custom & pre-printed marker cards also available)
Type	Series	Part Number		Width	Cross Section	V/A Ratings	
TOPJOB® S Classic Automotive Fuse or Circuit Breakers	282	 282-696	 282-698/281-xxx**	8mm*	24-10 AWG	30 A/600 V	Various UL rated versions available
ACCESSORIES							
	Series	Accessory Description		Width		V/A Ratings	
End Plate	282	 282-334 gray	 282-333 orange	2mm			
Adjacent Jumper (insulated)	282	 282-402 gray	 282-422 yellow-green			I _N 41 A	
Alternate Jumper (insulated)	282	 282-409 gray				I _N 41 A	
Test Plug Adapter (for 4mm Ø plug; for 1.5 ... 10 mm ² terminal blocks)	209	 209-170 gray		8.3mm			
B-Type Test Plug Module (snaps together)	709	 709-310 gray		8mm			
Marking Solutions	2009	 2009-115 WMB Inline		5.2mm			Marked with SmartPRINTER (custom & pre-printed marker cards also available)

* May require end plate for use with pluggable circuit breakers. (Take note of terminal block width and circuit breaker width.)

** Available with indication; contact factory for part number suffix.

(1) The electrical data is defined by the fuse and blown fuse indication respectively.

WAGO Corporation
N120 W19129 Freistadt Road
Germantown, Wisconsin 53022
Telephone: 800 / DIN Rail (346-7245)
Fax: 262 / 255-3232
info.us@wago.com
www.wago.us

Canada
WAGO Corporation
Tel. 800/DIN Rail (346-7245)
Fax 262/255-3232
www.wago.ca

Mexico
WAGO Corporation
Queretaro
Tel. 001/800/309/5975
+ 52/442/221/5946
Fax + 52/442/221/5063
www.wago.mx

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