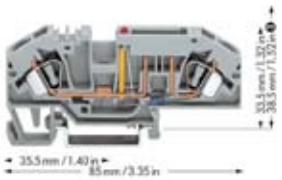
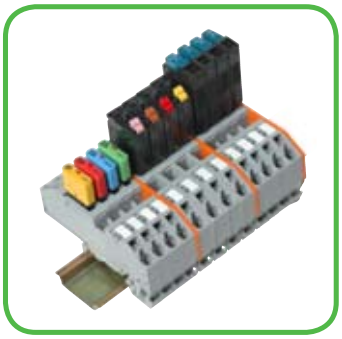
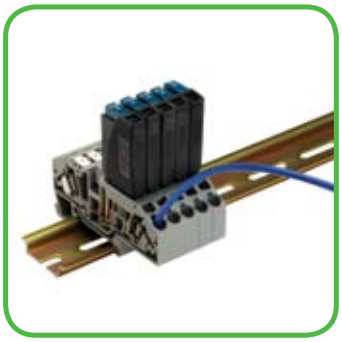
DIN Rail Mount Pluggable Thermal Circuit Breakers

Conductor Range:	AWG 24 - 10 AWG (stranded and solid)	Terminal Block Width:	8 mm / 0.315 in
		Strip Length:	12 - 13 mm / 0.49 in
Electrical Specs:	600 V maximum* 25/30 A maximum*	*Current / Voltage limited to circuit breaker specifications. Consult factory for other ratings.*	







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

The WAGO circuit breaker terminal block uses CAGE CLAMP® connection technology that reduces wiring time and provides a connection that is corrosion-resistant, temperature cycling resistant and maintenance-free. An excellent alternative to traditional fusing methods.

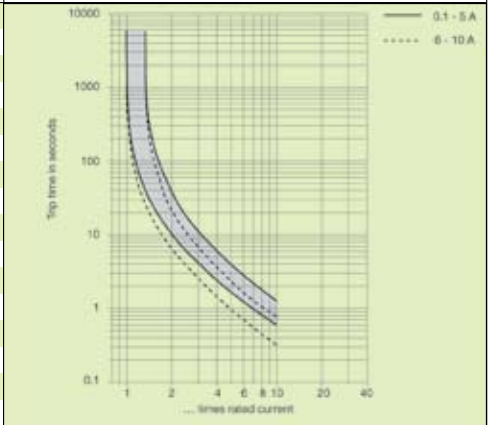


Technical Data

Voltage rating:	AC 250 V; DC 65 V	Interrupting capacity: (UL 1077)	AC 250 V: 2,000 A DC 65 V: 200 A
Current ratings:	0.1...10 A	Vibration:	5 g (57-500 Hz) ±0.38 mm (10-57Hz) to IEC 60068-2-6, test Fc, 10 frequency cycles/axis
Typical life:	3,000 operations at 1 x I_N (low-resistive) 500 operations at 2 x I_N (inductive)	Shock:	25 g (11 ms) to IEC 60068-2-27, test Ea
Ambient temperature:	-20...+60°C (T 60) -4...+140°F	Corrosion:	96 hours at 5% salt mist, to IEC 60068-2-11, test Ka
Insulation co-ordination: (IEC 60664 and 60664A)	Rated impulse withstand voltage 2.5 kV reinforced insulation in operating area; Pollution degree 2	Humidity:	240 hours at 95% RH to IEC 60068-2-3, test Ca
Insulation resistance:	>100 MΩ (DC 500 V)		

Description			Item No.	Pack.-unit pcs
Thermal circuit breaker, plug-in type, push button reset				
0.10 A	AC 250 V	DC 65 V	**51014625**	1
0.25 A	AC 250 V	DC 65 V	**51011135**	1
0.5 A	AC 250 V	DC 65 V	**51011136**	1
1.0 A	AC 250 V	DC 65 V	**51011137**	1
2.0 A	AC 250 V	DC 65 V	**51011138**	1
3.0 A	AC 250 V	DC 65 V	**51011139**	1
4.0 A	AC 250 V	DC 65 V	**51011140**	1
5.0 A	AC 250 V	DC 65 V	**51017673**	1
6.0 A	AC 250 V	DC 65 V	**51011141**	1
7.0 A	AC 250 V	DC 65 V	**51014524**	1
8.0 A	AC 250 V	DC 65 V	**51011142**	1
10.0 A	AC 250 V	DC 65 V	**51011143**	1
Thermal circuit breaker, plug-in type, on-off switch, switching duty rated				
0.10 A	AC 250 V	DC 65 V		
0.25 A	AC 250 V	DC 65 V	**51012494**	1
0.5 A	AC 250 V	DC 65 V	**51012495**	1
1.0 A	AC 250 V	DC 65 V	**51012496**	1
2.0 A	AC 250 V	DC 65 V	**51012497**	1
3.0 A	AC 250 V	DC 65 V	**51012498**	1
4.0 A	AC 250 V	DC 65 V	**51012499**	1
5.0 A	AC 250 V	DC 65 V	**51012500**	1
6.0 A	AC 250 V	DC 65 V	**51012501**	1
7.0 A	AC 250 V	DC 65 V	**51014523**	1
8.0 A	AC 250 V	DC 65 V	**51012502**	1
10.0 A	AC 250 V	DC 65 V	**51012503**	1

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





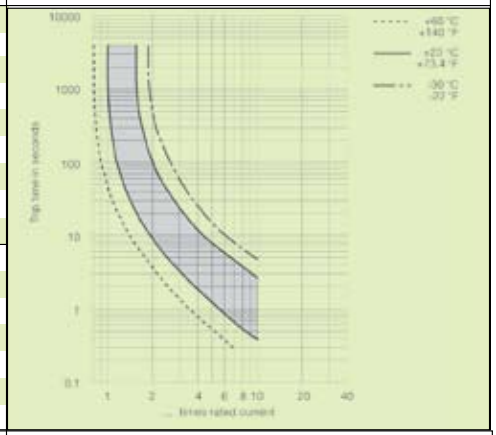
Technical Data

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 x I_N ≤ 20 A
	1,000 operations at 2 x I_N 25 A
Ambient temperature:	-30...+60°C (-22...140°F)
Interrupting capacity I_{CN}:	3...15 A 200 A
	3...15 A 400 A
	20...25 A 400 A

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

Description		Item No.	Pack.-unit pcs
Miniaturized thermal automotive circuit breaker, color coded, manual release			
15 A	DC 28 V	**51014338**	1
20 A	DC 28 V	**51014339**	1
25 A	DC 28 V	**51014340**	1
Miniaturized thermal automotive circuit breaker, on-off switch			
15 A	DC 28 V	**51014689**	1

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





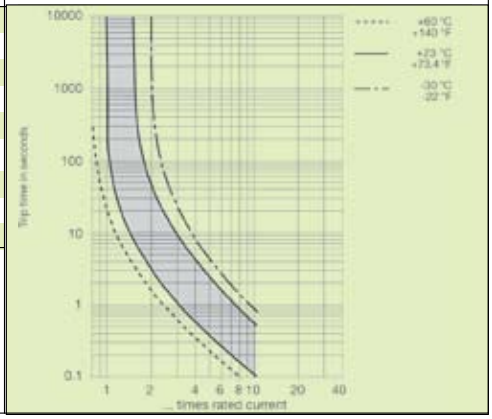
Technical Data

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, 10 frequency cycles/axis
Shock: (with mounting socket 12)	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.	Pack.-unit pcs
Thermal automotive circuit breaker, color coded housing, standard fuseblock mounting			
15 A	DC 28 V	**51016020**	1
20 A	DC 28 V	**51014617**	1
25 A	DC 28 V	**51014618**	1
30 A	DC 28 V	**51014619**	1

Typical time/current characteristic curve



Base Terminal Blocks



Item No.	Description	Pack.-unit pcs
282-696	2-conductor circuit breaker terminal block, gray	25
282-698/281-413	...with 24 V indicator, tripped circuit	25
51012247	...with 110 V indicator, tripped circuit	25

Accessories

End plate, 2 mm /0.079 in thick



Item No.		Pack.-unit pcs
282-333	orange	100 (4 x 25)
282-334	gray	100 (4 x 25)

Adjacent jumper, insulated, I_N 41 A



Item No.		Pack.-unit pcs
282-402	gray	100 (4 x 25)

Alternate jumper, insulated, I_N 41 A



Item No.		Pack.-unit pcs
282-409	gray	100 (4 x 25)

Test plug adapter, for test plug 4 mm /0.157 in Ø



Item No.	Pack.-unit pcs
209-170	50 (2 x 25)

End stop, for DIN 35 rail



Item No.		Pack.-unit pcs
249-116		100 (4 x 25)
249-117		50 (2 x 25)

DIN Rail, 35 mm x 7.5 mm, slotted, 2 M long



Item No.	Pack.-unit pcs
210-112	10

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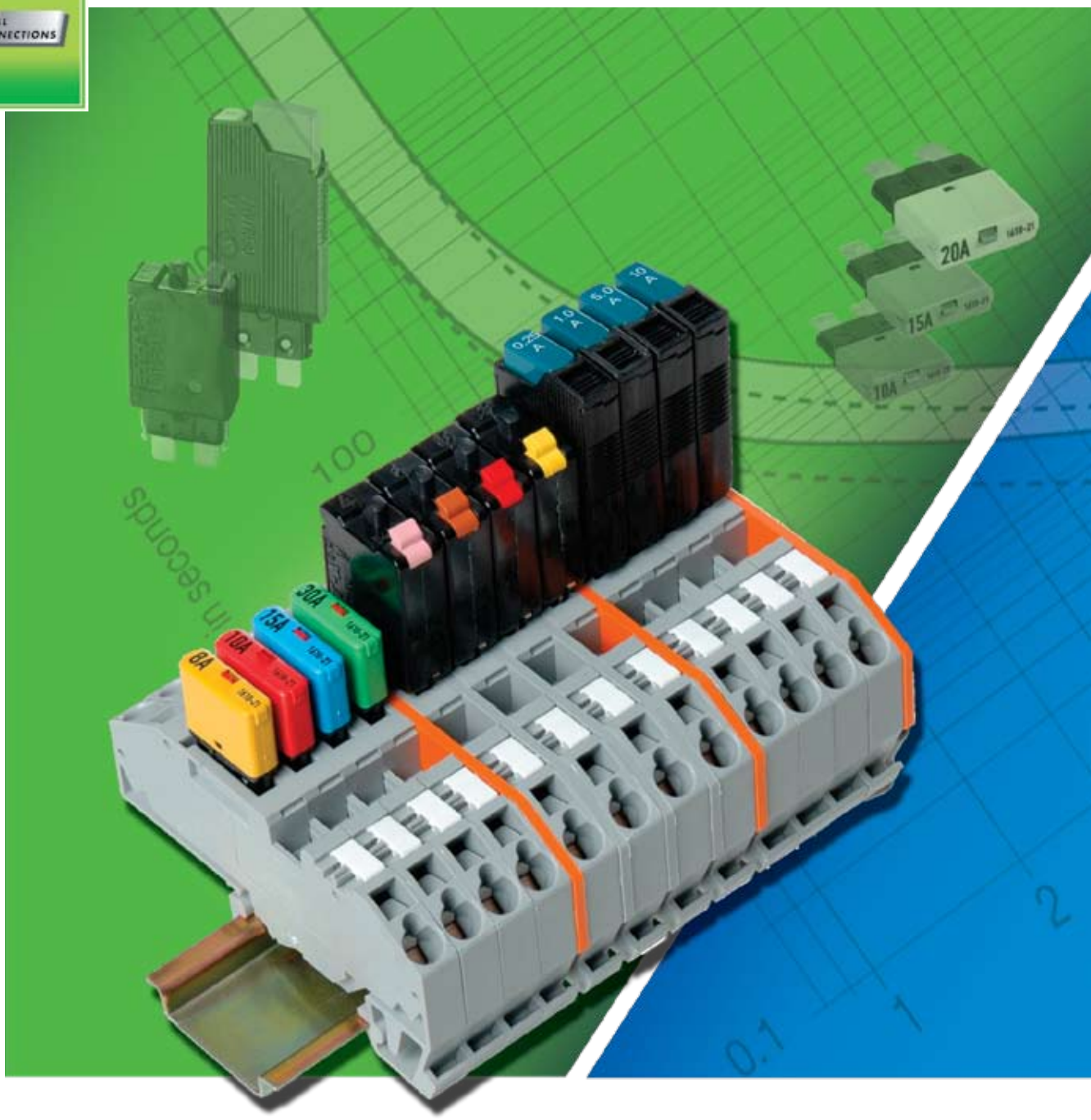
WAGO®
INNOVATIVE CONNECTIONS

ELECTRICAL INTERCONNECTIONS



Circuit Breakers

DIN Rail Mount Pluggable Circuit Breakers

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