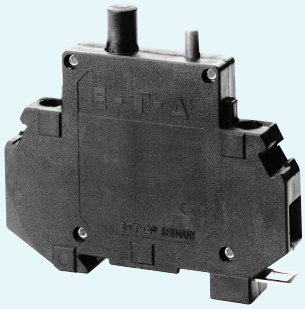
E-T-A Thermal-Magnetic Circuit Breaker 201/-WA

Description

Single pole thermal-magnetic circuit breaker with tease-free, trip-free, snap action mechanism and two button operation (M-type TM CBE to EN 60934). Featuring a narrow profile housing, recessed terminals, standard EN rail mounting, and precision CBE performance.
Complies with CBE standard EN 60934 (IEC 934)

Typical applications

Process control systems, instrumentation.



201-... standard type

201-WA-... low-resistance type

Accessories

X 200 409 01	Mounting adapter for asymmetric rail (G-profile).
X 210 589 01	50-way 2.5 mm² cable links with prefitted connection lugs, black
X 210 589 02	As above but with 1.5 mm² cable links, brown
X 221 497 00	Bus bar
X 221 498 00	Bus bar
X 221 496 00	Supply terminal for bus bar

Ordering information

Type No.	
201	single pole, rail mounted version
201-WA	low-resistance version

Option	
2705	fitted with adapter X 200 409 01

Current ratings
0.05...16 A (type 201)
0.05...10 A (type 201-WA)

201-WA - [ ] - 10 A ordering example

The exact part number required can be built up from the table of choices shown above. Ordering references for optional features should be omitted if not required.

Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance (Ω) 201	201-WA	Current rating (A)	Internal resistance (Ω) 201	201-WA
0.05	447	211	3	0.19	0.054
0.1	131	48	4	0.090	0.035
0.2	40	12.4	5	0.061	0.025
0.3	19.3	5.7	6	0.041	< 0.02
0.4	10.4	3.1	7	0.034	< 0.02
0.5	7.1	2.0	8	< 0.02	< 0.02
0.6	4.3	1.32	10	< 0.02	< 0.02
0.8	2.5	0.76	12	< 0.02	
1	1.67	0.49	14	< 0.02	
1.5	0.61	0.21	15	< 0.02	
2	0.38	0.101	16	< 0.02	
2.5	0.24	0.078			

Technical data

Voltage rating	AC 250 V, 50/60 Hz; DC 65 V (DC 80 V UL/CSA)		
Current rating range	201: 0.05 ... 16 A 201-WA: 0.05...10 A		
Typical life	5,000 operations at $2xI_N$		
Ambient temperature	-30...+60 °C		
Insulation co-ordination (IEC 664 and 664 A)	Rated impulse withstand voltage 2.5 kV reinforced insulation	Pollution degree 2 in operating area	
Dielectric strength (IEC 664 and 664A) operating area	Test voltage AC 3000 V		
Insulation resistance	> 100 MΩ (DC 500 V)		
Interrupting capacity I_{cn}	201	201-WA	
	0.05...0.8 A 1...2 A 2.5...16 A	0.05...0.2 A 0.3...2 A 2.5...10 A	self-limiting 200 A 400 A
Interrupting capacity (UL 1077)	I_N	U_N	
	0.05...16 A 0.05...16 A	AC 250 V DC 80 V	1000 A 1000 A
Degree of protection (IEC 529/DIN 40050)	operating area IP 40 terminal area IP 20		
Vibration	5 g (57-500 Hz), ±0.38 mm (10-57 Hz) to IEC 68-2-6, Test Fc 10 frequency cycles/axis		
Shock	25 g (11 ms) to IEC 68-2-27, Test Ea		
Corrosion	96 hours at 5 % salt mist, to IEC 68-2-11, Test Ka		
Humidity	240 hours at 95 % RH to IEC 68-2-3, Test Ca		
Mass	approx. 60 g		

Approvals

Authority	Voltage ratings	Current ratings
VDE, Demko,	AC 250 V, DC 65 V	0.05...16 A
CSA, UL	AC 250 V, DC 80 V	0.05...16 A
LRoS	AC 250 V, DC 65 V	0.3...16 A

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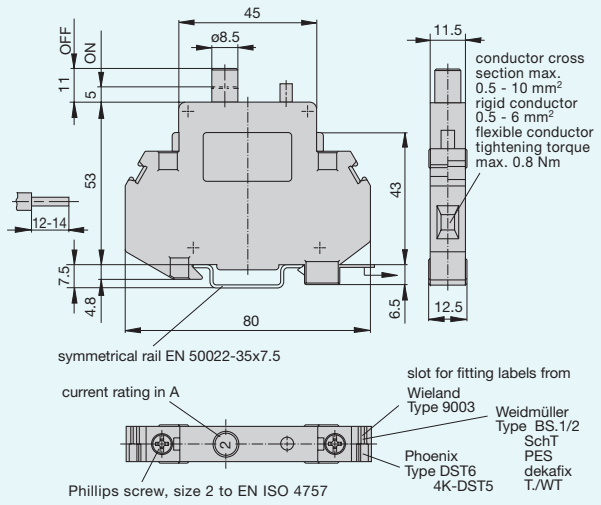
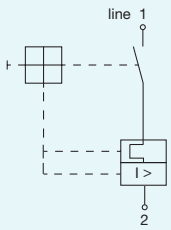
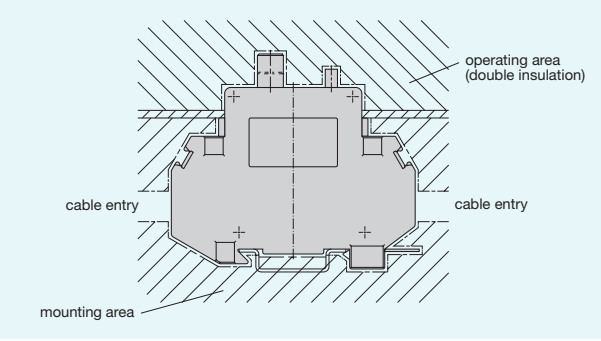
Dimensions



Internal connection diagram



Installation drawing for protection class II (IEC 730-1)

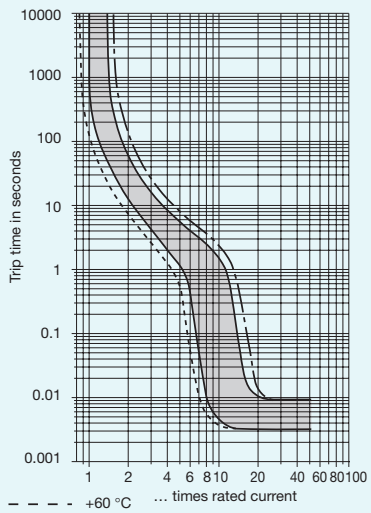


Time/current characteristics are calibrated at 23°C (see page 8). For operation at other temperatures please apply the factors below to determine the circuit breaker rating required.

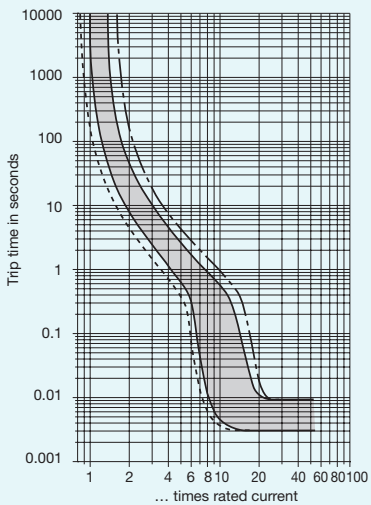
Ambient temperature °C	-20	-10	0	+23	+40	+50	+60
Multiplication factor	0.76	0.84	0.92	1	1.08	1.16	1.24

Typical time/current characteristics

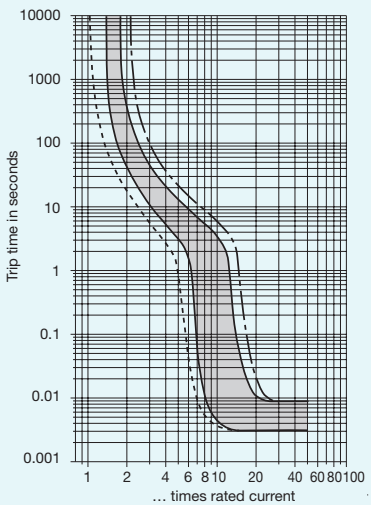
Type 201 0.05...7 A AC



Type 201 8...16 A AC



Type 201-WA 0.05...10 A DC

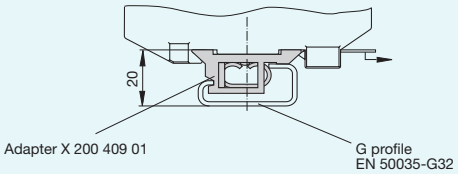


Magnetic tripping currents are increased by 20 % on DC supplies.

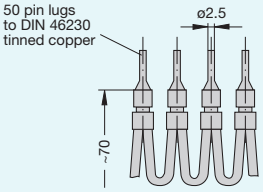
Magnetic tripping currents are decreased by 20 % on AC supplies.

Accessories

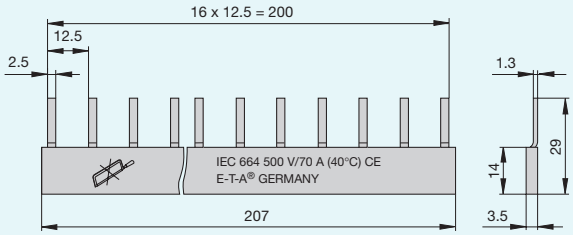
Adapter for EN rail 50035-G32 specified as a separate item
X 200 409 01



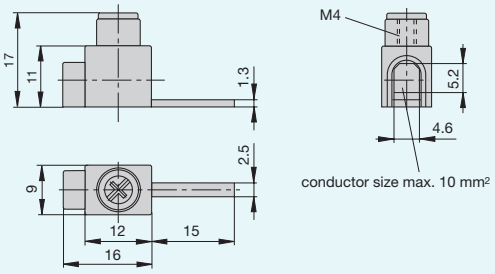
Connector bus links -K10
X 210 589 01/2.5 mm² (black)
X 210 589 02/1.5 mm² (brown)



Bus bar
X 221 498 01



Supply terminal for bus bar
X 221 496 01



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