

## Description

Single pole thermal-magnetic circuit breaker with tease-free, trip-free, press-to-reset, snap action mechanism and additional manual release (M-type TM CBE to EN 60934). Designed for plug-in mounting with E-T-A sockets 10 and 16.

Approved to CBE standard EN 60934 (IEC 60934).

## Typical applications

Control equipment, extra-low voltage wiring systems and components.

## Ordering information

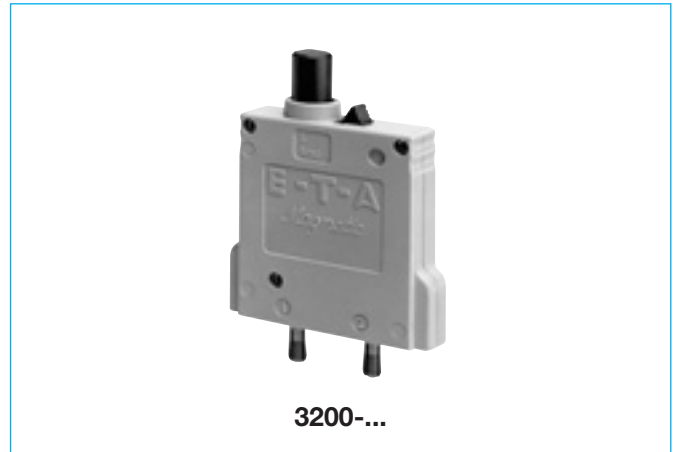
Type No.	
3200	plug-in
	Current ratings
	0.05...25 A
3200 - 5 A	ordering example

## Standard current ratings and typical internal resistances

Current rating (A)	Internal resistance ( $\Omega$ )	Current rating (A)	Internal resistance ( $\Omega$ )
0.05	534	4	0.141
0.1	149	5	0.107
0.2	56	6	0.060
0.3	24.2	7	0.049
0.4	13.6	8	< 0.02
0.5	8.1	10	< 0.02
0.6	5.25	12	< 0.02
0.8	3.55	14	< 0.02
1	2.02	15	< 0.02
1.5	0.90	16	< 0.02
2	0.51	18	< 0.02
2.5	0.36	20	< 0.02
3	0.23	25	< 0.02

## Approvals

Authority	Voltage ratings	Current ratings
VDE (EN 60934)	AC 240 V; DC 28 V	0.05...25 A
CSA	AC 250 V; DC 28 V	0.05...15 A



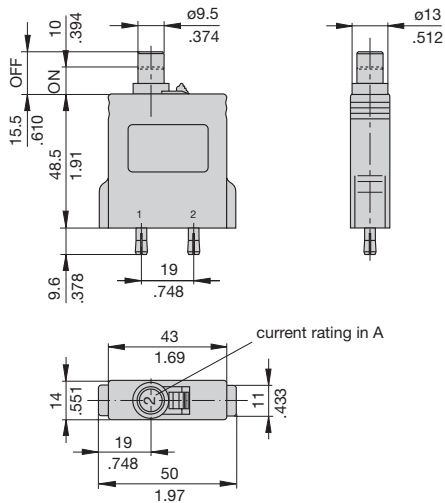
3200-...

## Technical data

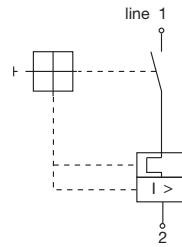
For further details please see chapter: **Technical Information**

Voltage rating	AC 240 V, 50/60 Hz; DC 28 V	
Current ratings	0.05...25 A	
Typical life	500 operations at $1 \times I_N$ , inductive 4,000 operations at $1 \times I_N$ , resistive	
Ambient temperature	-30...+60 °C (-22...+140 °F)	
Insulation co-ordination (IEC 60664 and 60664 A)	rated impulse withstand voltage 2.5 kV	pollution degree 2 reinforced insulation in operating area
Dielectric strength (IEC 60664 and 60664A) operating area	test voltage AC 3,000 V double insulation	
Insulation resistance	> 100 M $\Omega$ (DC 500 V)	
Interrupting capacity $I_{cn}$	0.05...0.8 A 1...2 A 2.5...25 A	self-limiting 200 A 400 A
Degree of protection (IEC 60529/DIN 40050)	operating area IP40 terminal area IP00	
Vibration	5 g (57-500 Hz) $\pm$ 0.38 mm (10-57 Hz) to IEC 60068-2-6, test Fc 10 frequency cycles/axis	
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	
Mass	approx. 50 g	

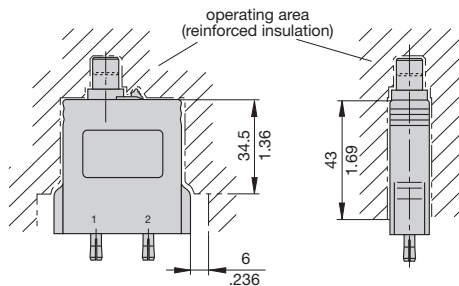
## Dimensions



## Internal connection diagram



## Installation drawing

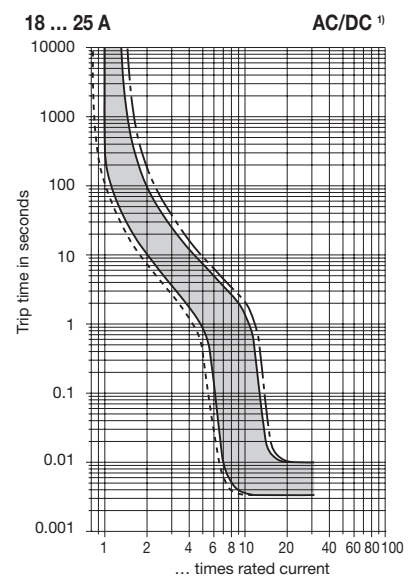
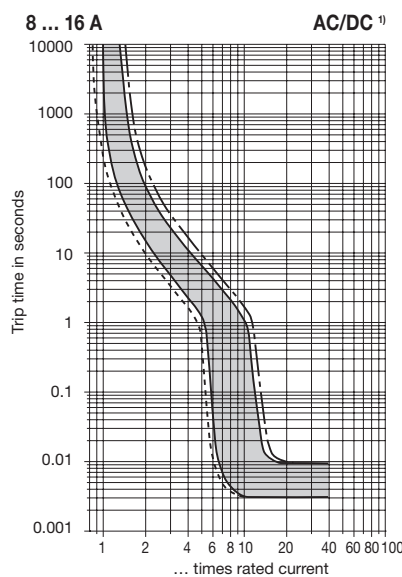
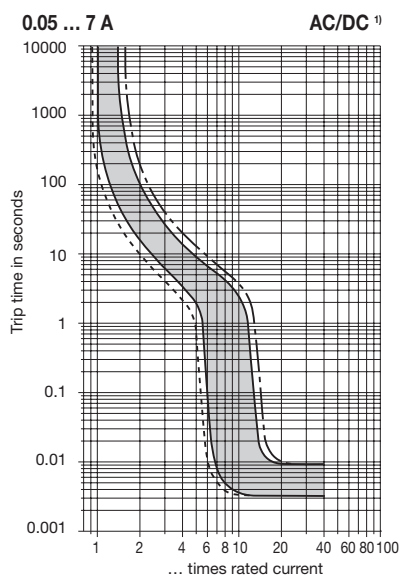


This is a metric design and millimeter dimensions take precedence ( $\frac{\text{mm}}{\text{inch}}$ )

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 section 9 – Technical information.

Ambient temperature °F	-22	-4	+14	+32	+73.4	+104	+122	+140
°C	-30	-20	-10	0	+23	+40	+50	+60
Derating factor	0.76	0.79	0.83	0.88	1	1.08	1.16	1.24

## Typical time/current characteristics

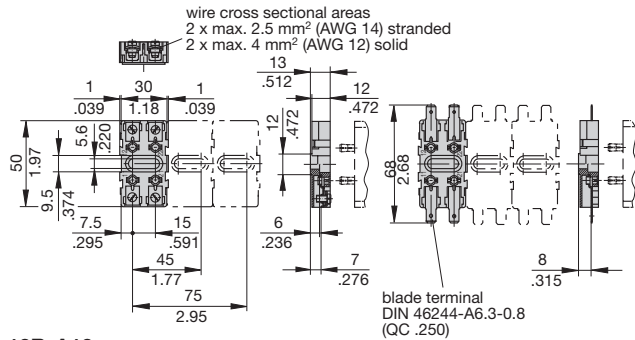


<sup>1)</sup> Magnetic tripping currents are increased by 20% on DC supplies.

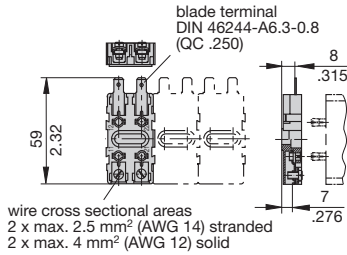
## Accessories

### Sockets 10R-K10

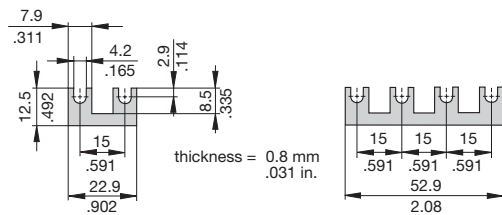
### 10R-P10



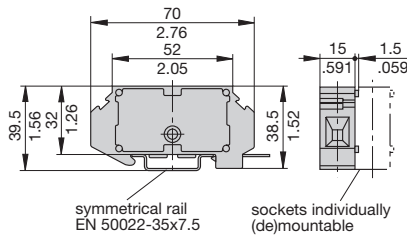
### 10R-A10



### Bus bars for sockets 10... (up to 20 A max. load) Y 301 166 02, 2-way Y 301 166 01, 4-way

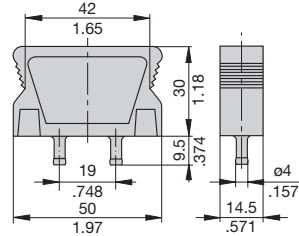


### Socket 16 (up to 16 A max. load)

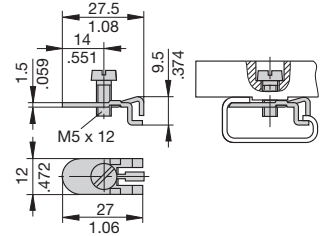


**Adapter  
for socket 16  
X 200 409 01**  
for track mounting  
to EN 50035-G32  
(G profile)  
on request

### Blanking plug Y 301 477 01 for sockets 10R-P10/K10/A10

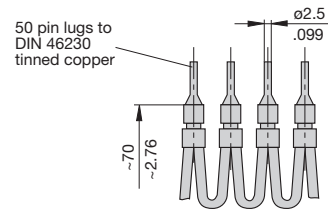


### Terminal for mounting rack (DIN/EN 50 035-G32) X 200 800 01 for sockets 10R



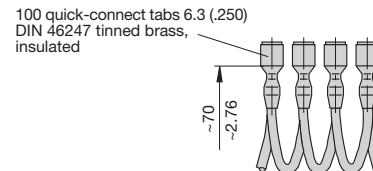
### Connector bus links -K10

X 210 589 01/ 2.5 mm<sup>2</sup>, (AWG 14) (black) up to 20 A max. load  
X 210 589 02/ 1.5 mm<sup>2</sup>, (AWG 16) (brown) up to 13 A max. load  
for sockets 10R-P10, 10R-A10 and 16



### Connector bus links -P10

X 210 588 01/ 1.5 mm<sup>2</sup>, (AWG 16) (brown) up to 13 A max. load  
X 210 588 02/ 2.5 mm<sup>2</sup>, (AWG 14) (black) up to 20 A max. load  
X 210 588 03/ 2.5 mm<sup>2</sup>, (AWG 14) (red) up to 20 A max. load  
X 210 588 04/ 2.5 mm<sup>2</sup>, (AWG 14) (blue) up to 20 A max. load  
for sockets 10R-P10, 10R-A10



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.