

## Description

Single or two pole rocker switch/thermal-magnetic circuit breaker with trip-free mechanism (S-type TM CBE to EN 60934). The addition of a magnetic tripping module to the type 3120 range described in catalogue section 1 extends the choices available to include single pole with thermal-magnetic protection; double pole switching with thermal-magnetic protection on one pole, thermal protection on the other; double pole switching with thermal-magnetic protection on one pole only. All are offered with rocker switch or push button control - two buttons for ON/OFF or one button press-to-reset only, in designs to suit one of three different panel cut-out sizes. Illumination is optional.  
Approved to CBE standard EN 60934 (IEC 60934).

## Typical applications

Motors, machine tools, office equipment, appliances.

## Standard current ratings and typical internal resistance values

Current ratings (A)	Internal resistance per pole (Ω)	
	thermal-magn.	thermal
0.1	165	94
0.2	42.5	24
0.3	20.2	12
0.4	9.7	5.40
0.5	7.17	4.30
0.6	4.9	3
0.8	2.65	1.50
1	1.49	0.9
1.2	1.25	0.7
1.5	0.74	0.45
2	0.49	0.29
2.5	0.20	0.0785
3	0.14	0.0595
3.5	0.114	0.0565
4	0.092	0.0435
5	0.06	0.0325
6	0.043	0.0215
7	0.030	0.0215
8	0.029	0.02
10	0.021	0.02
12	< 0.02	< 0.02
14	< 0.02	< 0.02
16	< 0.02	< 0.02

## Illumination voltage / Power consumption

Operating voltage	Power consumption	
	Filament/Neon	LED
6 V	60 mA	9 mA
12 V	20 mA	9 mA
24 V	20 mA	9 mA
48 V	20 mA	1,5 mA
115 V	< 1.5 mA	< 1 mA*
230 V	< 1.5 mA	< 1 mA*
415 V	< 1 mA	***

\* single pole only

\*\*\* not available



3120-...-M...

## Technical data

For further details please see chapter: Technical Information

Voltage rating	AC 240 V (50/60 Hz); DC 50 V		
Current ratings	0.1...16 A		
Typical life	<b>1-pole</b>		
	AC 240 V: 0.1...20 A	30,000 operations at 1 x I <sub>N</sub> , inductive	
	DC 50 V: 0.1...4 A	30,000 operations at 1 x I <sub>N</sub> , inductive	
	4.5...16 A	30,000 operations at 1 x I <sub>N</sub> , resistive	
DC 28 V: 4.5...20 A	30,000 operations at 1 x I <sub>N</sub> , inductive		
	<b>2-pole</b>		
AC 240 V: 0.1...16 A	50,000 operations at 1 x I <sub>N</sub> , inductive		
	17...20 A	30,000 operations at 1 x I <sub>N</sub> , inductive	
DC 50 V: 0.1...16 A	50,000 operations at 1 x I <sub>N</sub> , inductive		
	17...20 A	10,000 operations at 1 x I <sub>N</sub> , inductive	
Ambient temperature	-30...+60 °C (-22...+140 °F)		
Insulation co-ordination (IEC 60664 and 60664 A)	rated impulse withstand voltage	pollution degree	
	2.5 kV	2	
	reinforced insulation in operating area		
Dielectric strength (IEC 60664 and 60664A)	test voltage		
	operating area	AC 3,000 V	
	current path/current path	AC 1,500 V	
Insulation resistance	> 100 MΩ (DC 500 V)		
Interrupting capacity I <sub>cn</sub>	0.1...2 A	100 x I <sub>N</sub>	
	2.5...16 A	250 A 2-pole	
		150 A 1-pole	
Interrupting capacity (UL 1077)	I <sub>N</sub>	U <sub>N</sub>	
	0.1...4 A	AC 250 V	200 A
	5...10 A	AC 250 V	2,000 A
	12...14 A	AC 125 V	1,000 A
Degree of protection (IEC 60529/DIN 40050)	operating area IP40 (with water splash protection IP54) terminal area IP00		
Vibration	8 g (57-500 Hz) ±0.61 mm (10-57 Hz) to IEC 60068-2-6, test Fc 10 frequency cycles/axis		
Shock	30 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. 53 g (2-pole) approx. 50 g (1-pole)		

## Ordering information

<b>Type</b>	
3120	rocker switch/circuit breaker
<b>Mounting</b>	
<b>F</b> snap-in frame	
<b>Size of frame</b>	
<b>3</b>	to fit in cut-out 50.5 x 21.5 mm panel thickness 1 - 6.35 mm (.039-.250 in)
<b>5</b>	to fit in cut-out 44.5 x 22 mm 1 - 4 mm (.039-.157 in)
<b>6</b>	to fit in cut-out 45 x 33.7 mm 1.2 - 2.4 mm (.047-.091 in)
<b>Number of poles</b>	
<b>1</b>	1-pole, thermal-magnetic protection
<b>2</b>	2-pole, thermal-magnetic protection on one pole, thermally protected on the other pole
<b>5</b>	2-pole, thermal-magnetic protection on one pole, unprotected on the other pole
<b>Mounting frame design</b>	
<b>1</b>	collar height 1 mm (.039 in)
<b>3</b>	collar height 9 mm (.354 in) (with safety frame)
<b>4</b>	collar height 2 mm (.079 in) with water splash protection (IP54) (not with -F6 frame)
<b>U</b>	with water splash protection and actuator guard
<b>Terminal configuration</b>	
<b>P7</b>	blade terminals 2x2.8-0.8 mm (QC 2x.110) (terminals 12(k), 22(k), 11, 21)
<b>H7</b>	12(k), 22(k): blade terminals 2x2.8-0.8 (QC 2x.110) 11, 21: terminal screws M3.5, blade terminals 2x2.8-0.8 (QC 2x.110)
<b>N7</b>	as P7, but shunt terminals (12(i) and 22(i)) are blade terminals 2x2.8-0.8 (QC 2x.110)
<b>G7</b>	as H7, but shunt terminals (12(i) and 22(i)) are blade terminals 2x2.8-0.8 (QC 2x.110)
<b>Characteristic curve</b>	
<b>M1</b>	standard delay, therm. 1.01-1.4 x I <sub>N</sub> ; magn. 4-9 x I <sub>N</sub> AC
<b>Switch style</b>	
<b>W</b>	rocker
<b>Switch colour designation</b>	
OPAQUE	TRANSLUCENT (for illuminated versions)
<b>01</b> black	<b>12</b> white
<b>02</b> white	<b>14</b> red
<b>04</b> red	<b>15</b> orange
	<b>19</b> green
<b>Rocker markings</b>	
<b>A</b>	
<b>B</b>	
<b>C</b>	
<b>D</b>	
<b>E</b>	
<b>F</b>	
<b>X</b>	
	X = without marking
<b>Rocker illumination (optional)</b>	
<b>B</b>	filament AC/DC
<b>G</b>	green LED, AC/DC
<b>Y</b>	yellow LED, AC/DC
<b>R</b>	red LED, AC/DC
<b>Illumination voltage range</b> (= operating voltage)	
<b>0</b>	4 - 7 V (B,G,Y,R)
<b>1</b>	10 - 14 V (B,G,Y,R)
<b>2</b>	20 - 28 V (B,G,Y,R)
<b>3</b>	90 - 140 V (B)
<b>4</b>	185 - 275 V (B)
<b>5</b>	42 - 54 V (B, Y, R)
<b>Current ratings</b>	
<b>0.1...16 A</b>	

3120 - F3 2 1 - N7 M1 - W 12 A B 4 - 10 A rdering 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.

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.

## Ordering information

<b>Type</b>	
3120	push button switch/circuit breaker
<b>Mounting</b>	
<b>F</b> snap-in frame	
<b>Size of frame</b>	
<b>2</b>	special frame for fitting splash cover
<b>3</b>	to fit in cut-out 50.5 x 21.5 mm panel thickness 1 - 6.35 mm
<b>Number of poles</b>	
<b>1</b>	1-pole, thermal-magnetic protection
<b>2</b>	2-pole, thermal-magnetic protection on one pole, thermally protected on the other pole
<b>5</b>	2-pole, thermal-magnetic protection on one pole, unprotected on the other pole
<b>Mounting frame design</b>	
<b>F</b>	frame with two push buttons
<b>G</b>	frame with one push button
<b>Terminal configuration</b>	
<b>P7</b>	blade terminals 2x2.8-0.8 mm (QC 2x.110) (terminals 12(k), 22(k), 11, 21)
<b>H7</b>	12(k), 22(k): blade terminals 2x2.8-0.8 (QC 2x.110) 11, 21: terminal screws M3.5, blade terminals 2x2.8-0.8 (QC 2x.110)
<b>N7</b>	as P7, but shunt terminals (12(i) and 22(i)) are blade terminals 2x2.8-0.8 (QC 2x.110)
<b>G7</b>	as H7, but shunt terminals (12(i) and 22(i)) are blade terminals 2x2.8-0.8 (QC 2x.110)
<b>Characteristic curve</b>	
<b>M1</b>	standard delay, therm. 1.01-1.4 x I <sub>N</sub> ; magn. 4-9 x I <sub>N</sub> AC
<b>Switch style/colour</b>	
<b>D</b>	1 push button (reset only)
<b>01X</b>	black
<b>04X</b>	red
<b>12X</b>	white translucent
<b>19X</b>	green translucent
<b>S</b>	2 push buttons ON/OFF
<b>GRX</b>	green translucent/red
<b>WRX</b>	white translucent/red
<b>WBX</b>	white translucent/black
<b>Push button illumination (optional)</b>	
<b>B</b>	filament bulb AC/DC
<b>L</b>	neon AC
<b>G</b>	green LED, AC/DC
<b>Y</b>	yellow LED, AC/DC
<b>R</b>	red LED, AC/DC
<b>Illumination voltage range</b> (= operating voltage)	
<b>0</b>	4 - 7 V (B,G,Y,R)
<b>1</b>	10 - 14 V (B,G,Y,R)
<b>2</b>	20 - 28 V (B,G,Y,R)
<b>3</b>	90 - 140 V (L)
<b>4</b>	185 - 275 V (L)
<b>5</b>	42 - 54 V (B,Y,R)
<b>Current ratings</b>	
<b>0.1...16 A</b>	

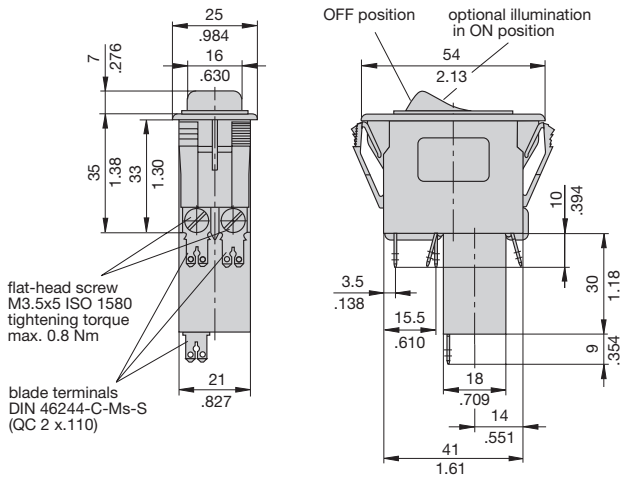
3120 - F3 2 F - N7 M1-S GRX L 4 - 10 A ordering example

## Approvals

Authority	Voltage ratings	Current ratings
VDE (EN 60934)	AC 240 V; DC 28 V DC 50 V DC 50 V	0.1...16 A 0.1...16 A double pole 0.1...10 A single pole
CSA, UL	AC 250 V AC 125 V	0.1...10 A 0.1...16 A
CCC	AC 250 V; DC 50 V	0.1...20 A

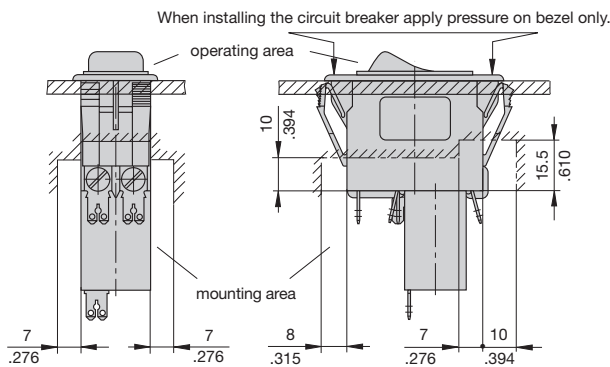
## Dimensions

### Mounting style -F3.1, with rocker – Collar height 1 mm



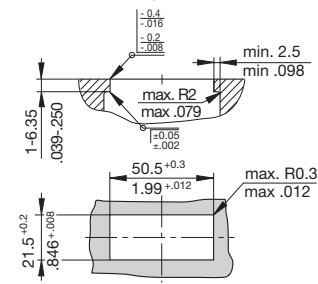
## Installation drawing

### Required safety distances for rocker and push button

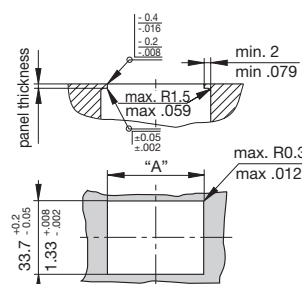


## Cut-out dimensions

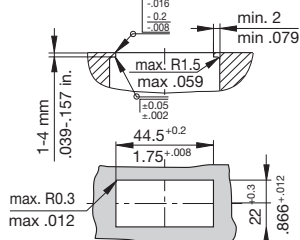
### Cut-out for mounting style -F3 with rocker and push button



### Cut-out for mounting style -F6 with rocker



### Cut-out for mounting style -F5 with rocker

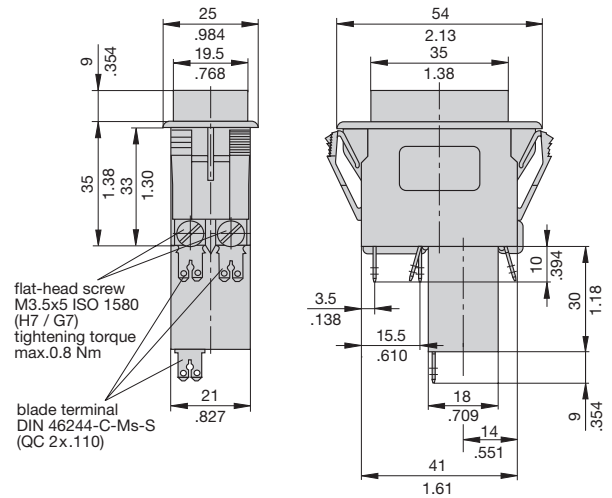


panel thickness	mm	1.2 +0.4	1.6 +0.8	2.4 +1
	inch	.047 +0.016	.063 +0.031	.094 +0.039
dimension	mm	45 +0.2	45 +1.1	45 +2.2
	inch	1.77 +0.008	1.77 +0.043	1.77 +0.087
"A"	inch	1.77 +0.002	1.77 +0.002	1.77 +0.002

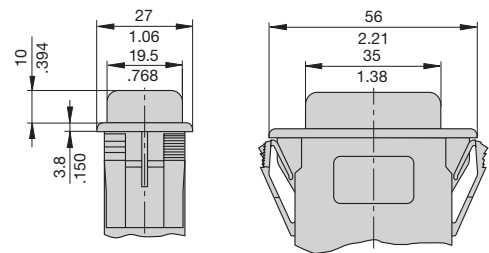
Edges of working parts: ISO 13715

## Mounting frame variants

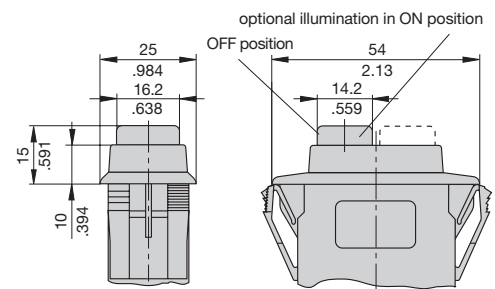
### Mounting style F3.3 with rocker collar height 9 mm (.354 in.)



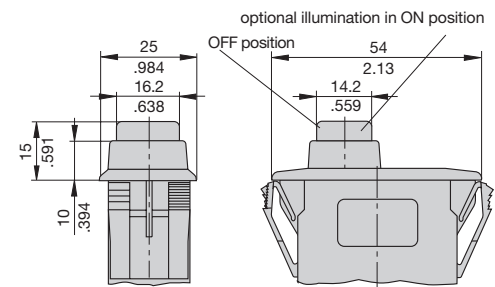
### Mounting style F3.4 with rocker collar height 2 mm (.079 in.), with water splash protection



### Mounting style F3.F-...-S-... with 2 push buttons



### Mounting style F3.G-...-D-... with 1 push button

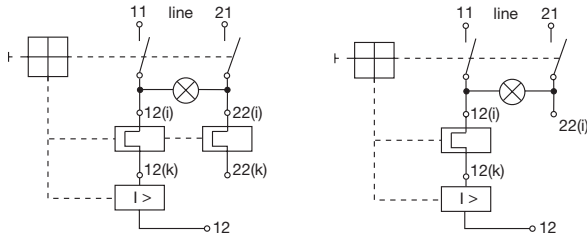


For mounting styles -F2., -F5., -F6. please see section 1.

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

## Internal connection diagrams

therm.-magn. protection on one pole thermally protected on the other pole      therm.-magn. protection on one pole unprotected on the other pole

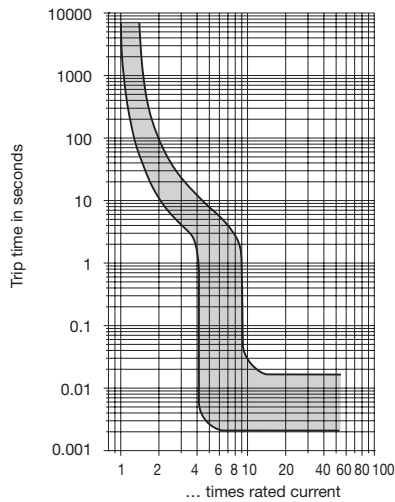


## Typical time/current characteristics at +23°C/+73.4°F

Single or double pole load

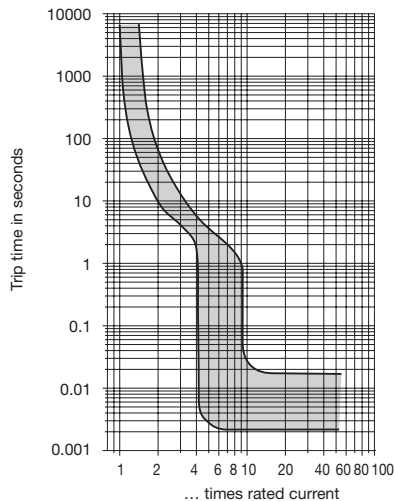
0.1 ... 2 A

AC/DC <sup>1)</sup>



2.5 ... 16 A

AC/DC <sup>1)</sup>



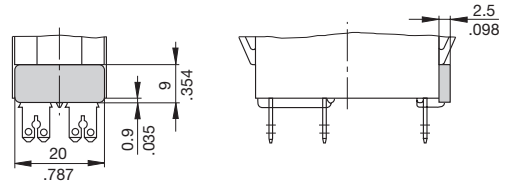
<sup>1)</sup> Magnetic tripping currents are increased by 25% on DC supplies.

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.

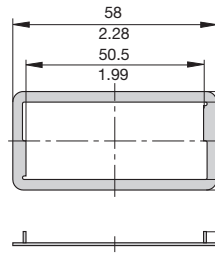
Ambient temperature °F	-22	-4	+14	+32	+73.4	+104	+122	+140
°C	-30	-20	-10	0	+23	+40	+50	+60
Derating factor	0.8	0.76	0.84	0.92	1	1.08	1.16	1.24

## Accessories

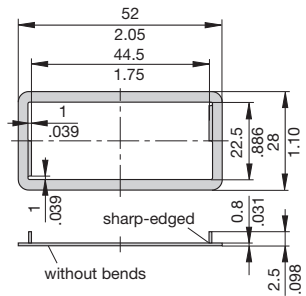
### Insulated cover Y 303 068 01



### Spacer for 3120-F3... Y 303 675 01/02

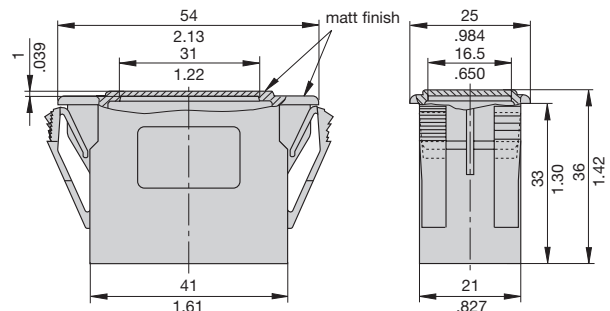


### Spacer for 3120-F5... Y 303 676 01

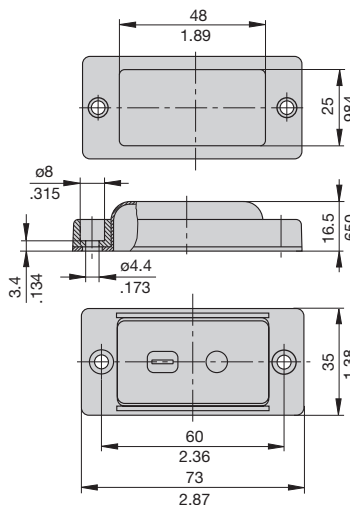


\* Y 303 675 01 suitable for panel thickness < 2 mm (.079 in)  
\* Y 303 675 02 suitable for panel thickness < 4 mm (.157 in)

### Blanking piece in -F3... size mounting frame Y 303 885 31



### Separate water splash cover, transparent (IP66) for use with -F5.. size mounting frames X 221 619 01



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

## Description

Single or two pole rocker switch/thermal-magnetic circuit breaker with trip-free mechanism (S-type TM CBE to EN 60934). The addition of a magnetic tripping module to the type 3120 range described in catalogue section 1 extends the choices available to include single pole with thermal-magnetic protection; double pole switching with thermal-magnetic protection on one pole, thermal protection on the other; double pole switching with thermal-magnetic protection on one pole only. All are offered with rocker switch actuation. Illumination is optional. Approved to CBE standard EN 60934 (IEC 60934).

## Typical applications

Motors, machine tools, office equipment, appliances.

## Standard current ratings and typical internal resistance values

Current ratings (A)	Internal resistance per pole (Ω)	
	thermal-magn.	thermal
0.1	165	94
0.2	42.5	24
0.3	20.2	12
0.4	9.7	5.40
0.5	7.17	4.30
0.6	4.9	3
0.8	2.65	1.50
1	1.49	0.9
1.2	1.25	0.7
1.5	0.74	0.45
2	0.49	0.29
2.5	0.20	0.0785
3	0.14	0.0595
3.5	0.114	0.0565
4	0.092	0.0435
5	0.06	0.0325
6	0.043	0.0215
7	0.030	0.0215
8	0.029	0.02
10	0.021	0.02
12	< 0.02	< 0.02
14	< 0.02	< 0.02
16	< 0.02	< 0.02

## Illumination voltage / Power consumption

Operating voltage	Power consumption	
	Filament/Neon	LED
6 V	60 mA	9 mA
12 V	20 mA	9 m
24 V	20 mA	9 mA
48 V	20 mA	1,5 mA
115 V	< 1.5 mA	< 1 mA*
230 V	< 1.5 mA	< 1 mA*
415 V	< 1 mA	***

\* single pole only

\*\*\* not available



3120-F7..-M1..

## Technical data

For further details please see chapter: Technical Information

Voltage rating	AC 240 V, 50/60 Hz; DC 50 V		
Current ratings	0.1...16 A		
Typical life	<b>1-pole</b>		
	AC 240 V: 0.1...20 A	30,000 operations at 1 x I <sub>N</sub> , inductive	
	DC 50 V: 0.1...4 A	30,000 operations at 1 x I <sub>N</sub> , inductive	
	4.5...16 A	30,000 operations at 1 x I <sub>N</sub> , resistive	
DC 28 V: 4.5...20 A	30,000 operations at 1 x I <sub>N</sub> , inductive		
Typical life	<b>2-pole</b>		
	AC 240 V: 0.1...16 A	50,000 operations at 1 x I <sub>N</sub> , inductive	
	17...20 A	30,000 operations at 1 x I <sub>N</sub> , inductive	
	DC 50 V: 0.1...16 A	50,000 operations at 1 x I <sub>N</sub> , inductive	
17...20 A	10,000 operations at 1 x I <sub>N</sub> , inductive		
Ambient temperature	-30...+60 °C (-22...+140 °F)		
Insulation co-ordination (IEC 60664 and 60664 A)	rated impulse withstand voltage	pollution degree	
	2.5 kV	2	
	reinforced insulation in operating area		
Dielectric strength (IEC 60664 and 60664A)	test voltage		
	operating area	AC 3,000 V	
	current path/current path	AC 1,500 V	
Insulation resistance	> 100 MΩ (DC 500 V)		
Interrupting capacity I <sub>cn</sub>	0.1...2 A	100 x I <sub>N</sub>	
	2.5...16 A	250 A 2-pole	
		150 A 1-pole	
Interrupting capacity (UL 1077)	I <sub>N</sub>	U <sub>N</sub>	
	0.1...4 A	AC 250 V	200 A
	5...10 A	AC 250 V	2,000 A
	12...14 A	AC 125 V	1,000 A
Degree of protection (IEC 60529/DIN 40050)	operating area IP40		
	(with water splash protection IP54) terminal area IP00		
Vibration	8 g (57-500 Hz) ±0.61 mm (10-57 Hz) to IEC 60068-2-6, test Fc 10 frequency cycles/axis		
Shock	30 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. 53 g (2-pole)		
	approx. 50 g (1-pole)		

## Ordering information

<b>Type</b>	
3120	rocker switch/circuit breaker
<b>Mounting</b>	
F snap-in frame	
<b>Size of frame</b> <span style="float: right;"><b>panel thickness</b></span>	
7	to fit in cut-out 44.5 x 22 mm <span style="float: right;">1 - 4 mm (.039-.157 in)</span>
<b>Number of poles</b>	
1	1-pole, thermal-magnetic protection
2	2-pole, thermal-magnetic protection on one pole, thermally protected on the other pole
5	2-pole, thermal-magnetic protection on one pole, unprotected on the other pole
<b>Mounting frame design</b>	
N	new design, grey
P	snap-on actuator guard grey
Q	snap-on splash cover grey
R	new design, black
S	snap-on actuator guard black
T	snap-on splash cover black
<b>Terminal configuration</b>	
P7	blade terminals 2x2.8-0.8 mm (QC 2x.110) (terminals 12(k), 22(k), 11, 21)
H7	12(k), 22(k): blade terminals 2x2.8-0.8 (QC 2x.110) 11, 21: terminal screws M3.5, blade terminals 2x2.8-0.8 (QC 2x.110)
N7	as P7, but shunt terminals (12(i) and 22(i)) are blade terminals 2x2.8-0.8 (QC 2x.110)
G7	as H7, but shunt terminals (12(i) and 22(i)) are blade terminals 2x2.8-0.8 (QC 2x.110)
<b>Characteristic curve</b>	
M1	standard delay, therm. 1.01-1.4 x I <sub>N</sub> ; magn. 4-9 x I <sub>N</sub> AC
<b>Betätigungselement</b>	
A Switch style	
<b>Switch colour designation</b>	
OPAQUE	TRANSLUCENT (for illuminated versions)
20 blue	30 blue
<b>Rocker markings</b>	
Q	permanently raised marking
<b>Rocker illumination</b>	
B	filament AC/DC
G	green LED, AC/DC
R	red LED, AC/DC
<b>Illumination voltage range</b> (= operating voltage)	
0	4 - 7 V (B,G,R)
1	10 - 14 V (B,G,R)
2	20 - 28 V (B,G,R)
3	90 - 140 V (B)
4	185 - 275 V (B)
5	42 - 54 V (B,R)
<b>Current ratings</b>	
0.1...16 A	

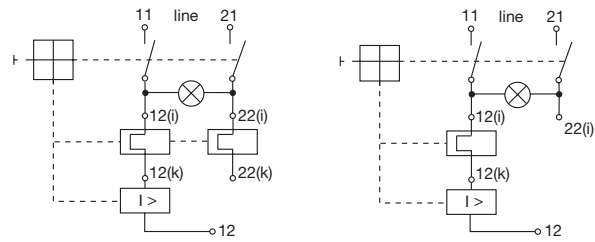
3120 - F7 2 N - N7 M1- A 20 Q B 4 - 10 A ordering example

## Approvals

Authority	Voltage ratings	Current ratings
VDE (EN 60934)	AC 240 V; DC 28 V	0.1...16 A
	DC 50 V	0.1...16 A double pole
	DC 50 V	0.1...10 A single pole
CSA, UL	AC 250 V	0.1...10 A
	AC 125 V	0.1...16 A
CCC	AC 250 V; DC 50 V	0.1...20 A

## Internal connection diagrams

therm.-magn. protection on one pole thermally protected on the other pole      therm.-magn. protection on one pole unprotected on the other pole

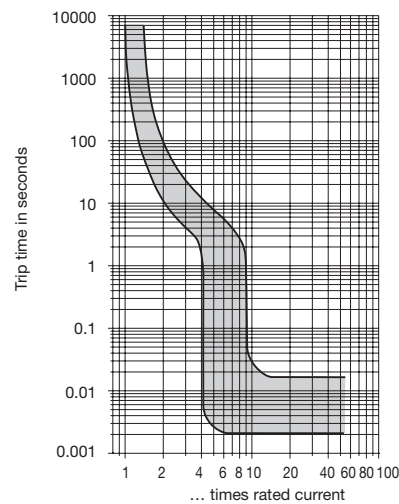


## Typical time/current characteristics at +23°C/+73.4°F

Single or double pole load

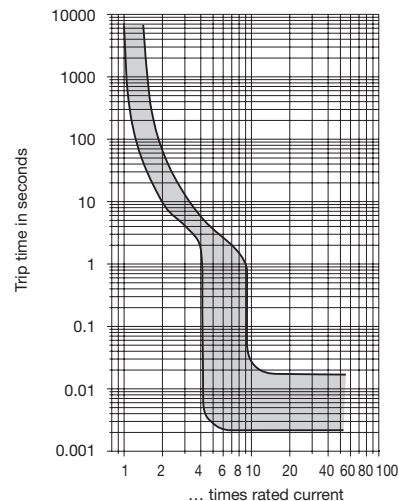
0.1 ... 2 A

AC/DC <sup>1)</sup>



2.5 ... 16 A

AC/DC <sup>1)</sup>



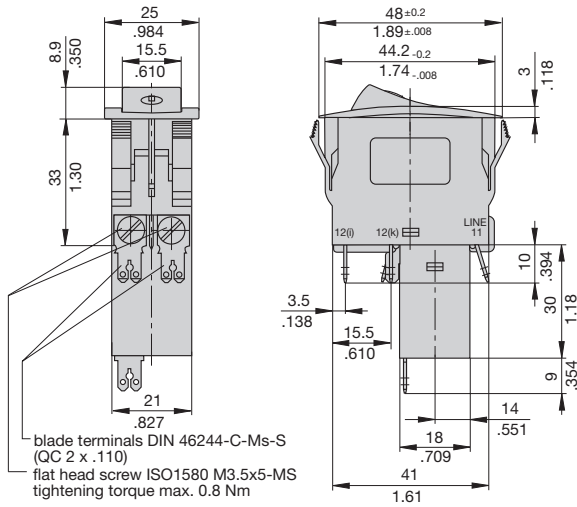
<sup>1)</sup> Magnetic tripping currents are increased by 25% on DC supplies.

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.

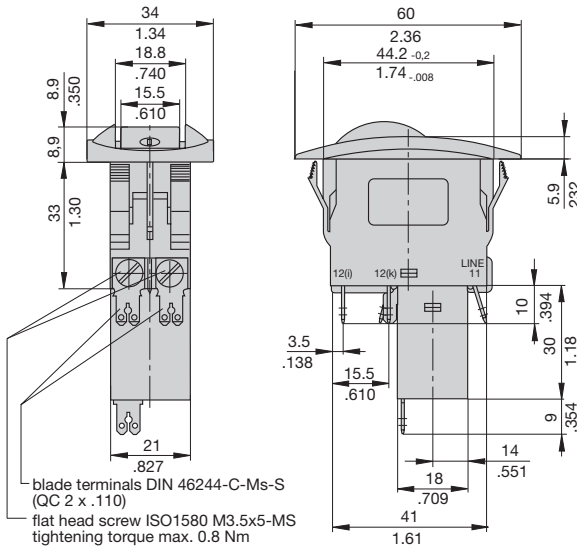
Ambient temperature °F	-22	-4	+14	+32	+73.4	+104	+122	+140
°C	-30	-20	-10	0	+23	+40	+50	+60
Derating factor	0.8	0.76	0.84	0.92	1	1.08	1.16	1.24

## Dimensions

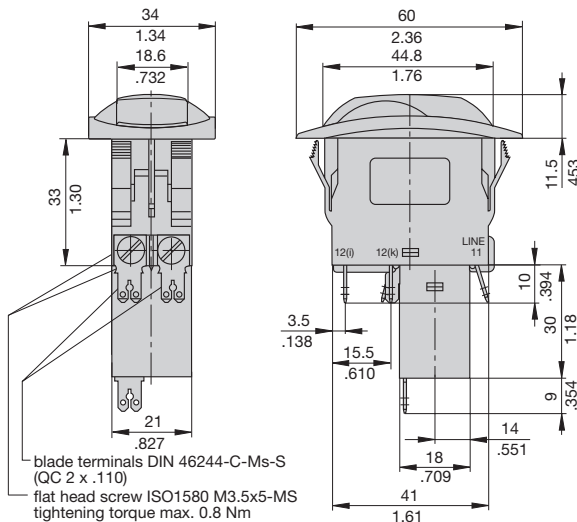
### Mounting style -F7.N and -F7.R



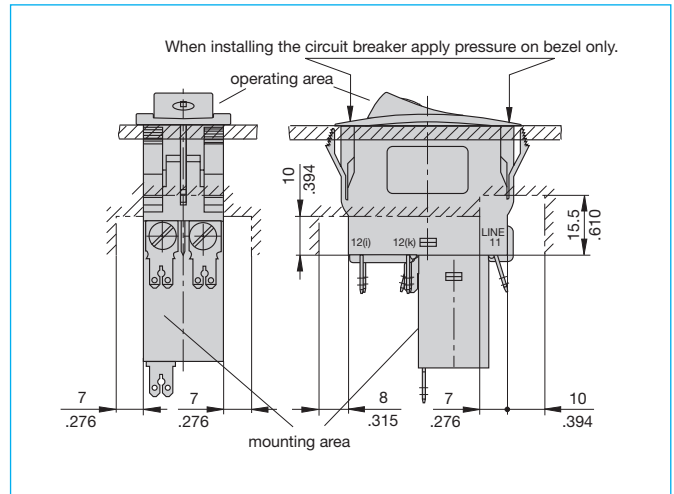
### Mounting style -F7.P and -F7.S



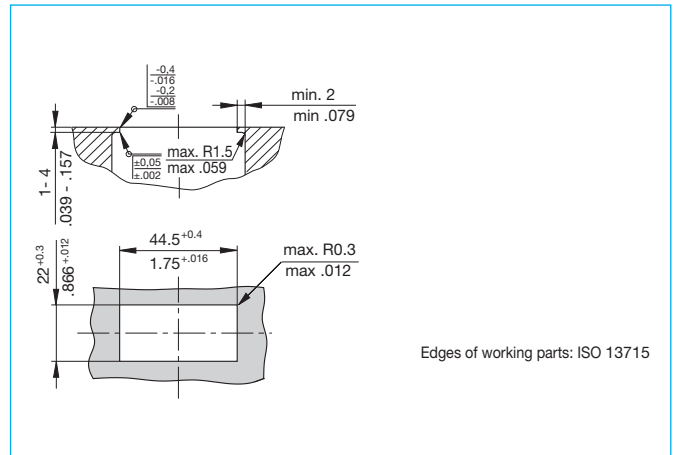
### Mounting style -F7.Q and -F7.T



## Installation drawing



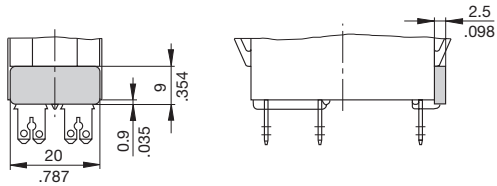
## Cut-out dimensions



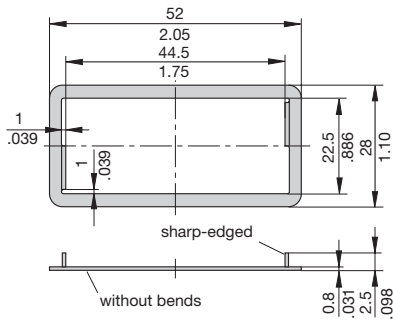
This is a metric design and millimeter dimensions take precedence ( $\frac{\text{mm}}{\text{inch}}$ )

## Accessories

### Insulated cover Y 303 068 01



### Spacer for 3120-F7... Y 303 676 01



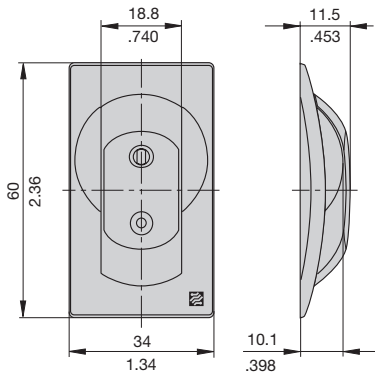
### Translucent water splash cover (IP54)

X 222 143 01

Consisting of

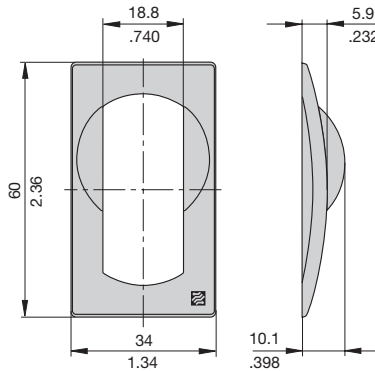
- Y 307 097 01 snap-on frame with actuator guard

- Y 307 096 01 soft plastic cover



### Snap-on frame with actuator guard (can be snapped on as switch-on protection or switch-off protection)

Y 307 097 01



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.

## 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

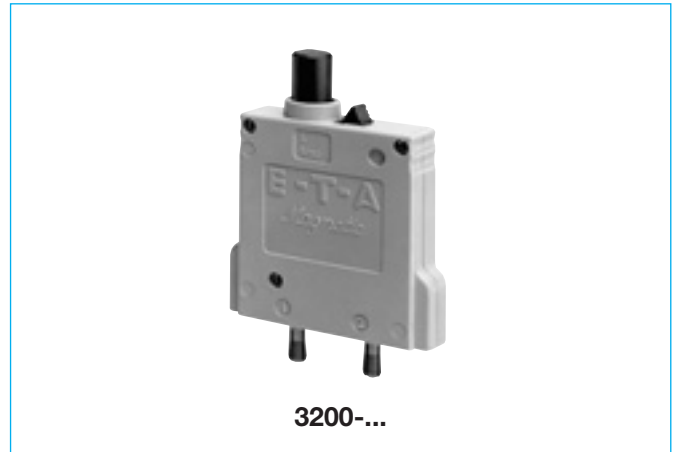
Type No.	
3200	plug-in
	Current ratings
	0.05...25 A
3200 - 5 A	ordering example

## 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**

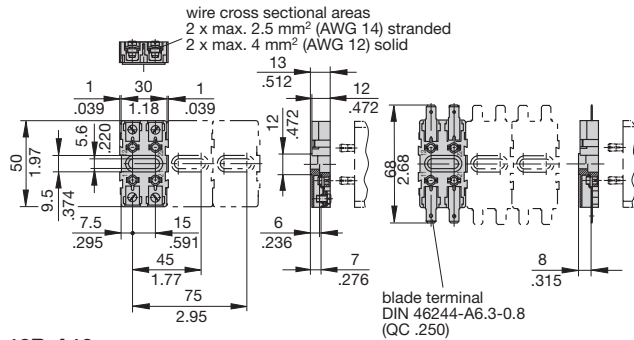
Voltage rating	AC 240 V, 50/60 Hz; DC 28 V	
Current ratings	0.05...25 A	
Typical life	500 operations at $1 \times I_N$ , inductive 4,000 operations at $1 \times I_N$ , resistive	
Ambient temperature	-30...+60 °C (-22...+140 °F)	
Insulation co-ordination (IEC 60664 and 60664 A)	rated impulse withstand 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	



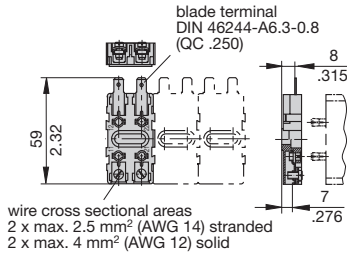
## Accessories

### Sockets 10R-K10

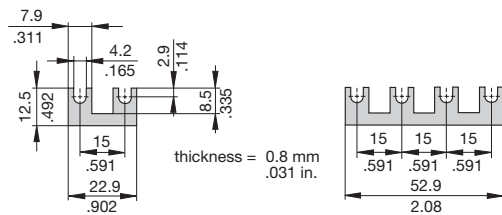
### 10R-P10



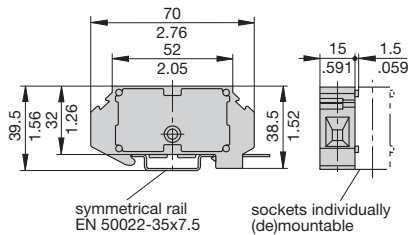
### 10R-A10



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

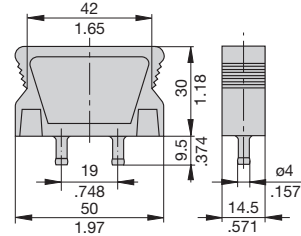


### Socket 16 (up to 16 A max. load)

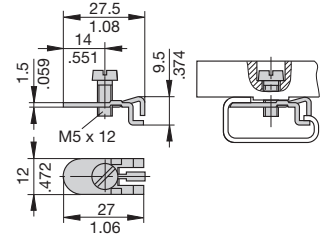


**Adapter  
for socket 16  
X 200 409 01**  
for track mounting  
to EN 50035-G32  
(G profile)  
on request

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

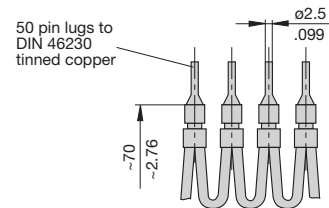


### Terminal for mounting rack (DIN/EN 50 035-G32) X 200 800 01 for sockets 10R



### Connector bus links -K10

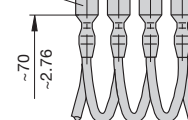
**X 210 589 01/** 2.5 mm<sup>2</sup>, (AWG 14) (black) up to 20 A max. load  
**X 210 589 02/** 1.5 mm<sup>2</sup>, (AWG 16) (brown) up to 13 A max. load  
for sockets 10R-P10, 10R-A10 and 16



### 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

100 quick-connect tabs 6.3 (.250)  
DIN 46247 tinned brass,  
insulated



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.

## Description

Single pole thermal-magnetic circuit breakers with tease-free, trip-free, press-to-reset, snap action mechanism (R-type TM CBE to EN 60934; M-type with manual release (-H)). Available with fast acting and standard magnetic tripping characteristics - types 3300 and 3400 - both with threadneck panel mounting. Options include auxiliary contacts, a separate shunt tap terminal (-A3), and pull-to-trip manual release (-H). Approved to CBE standard EN 60934 (IEC 60934).

## Typical applications

Control systems, instrumentation, medical equipment, machine tools, robotics.

## Ordering information

<b>Type No.</b>	
3300	fast acting
3400	standard delay
<b>Mounting</b>	
iG2	moulded threadneck M12x1 (bulk-shipped), not with -H;
...	leave blank for metal threadneck, required for -H
<b>Terminal design</b>	
P10	blade terminals 6.3-0.8 (QC .250)
K20	screw terminals M3.5x5.5 with clamp (not for -Si and -A3)
<b>Shunt terminal (optional)</b>	
A3	same as main terminals, up to $I_N=7$ A max. load 5 A
<b>Manual release (optional)</b>	
H	manual release facility (pull), without reinforced insulation in operating area, for M12x1 metal threadneck only. Metal threadneck version for -H is not approved.
<b>Auxiliary contacts (optional)</b>	
Si	with silver-plated solder terminals (N/O and N/C)
<b>Push button marking (optional)</b>	
1	without
<b>Current ratings</b>	
0.05...16 A	
3400 - iG2 - P10 - ... - Si - ... - 10 A	
ordering example, without manual release and with moulded threadneck	
3400 - ... - P10 - ... - H - Si - ... - 10 A	
ordering example, with manual release and metal threadneck	

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 ratings (A)	Internal resistance ( $\Omega$ )		Current ratings (A)	Internal resistance ( $\Omega$ )	
	3300	3400		3300	3400
0.05	447	211	3	0.18	0.19
0.1	131	131	4	0.109	0.090
0.2	41	40	5	0.066	0.061
0.3	19.6	19.3	6	0.046	0.041
0.4	10.4	10.4	7	0.032	0.034
0.5	7.2	7.1	8	0.02	$\leq 0.02$
0.6	4.8	4.3	10	$\leq 0.02$	$\leq 0.02$
0.8	2.5	2.5	12	$\leq 0.02$	$\leq 0.02$
1	1.93	1.67	13	$\leq 0.02$	$\leq 0.02$
1.5	0.81	0.61	14	$\leq 0.02$	$\leq 0.02$
2	0.44	0.38	15	$\leq 0.02$	$\leq 0.02$
2.5	0.27	0.24	16	$\leq 0.02$	$\leq 0.02$



**3300**  
fast acting

**3400**  
standard delay

## Technical data

For further details please see chapter: Technical Information

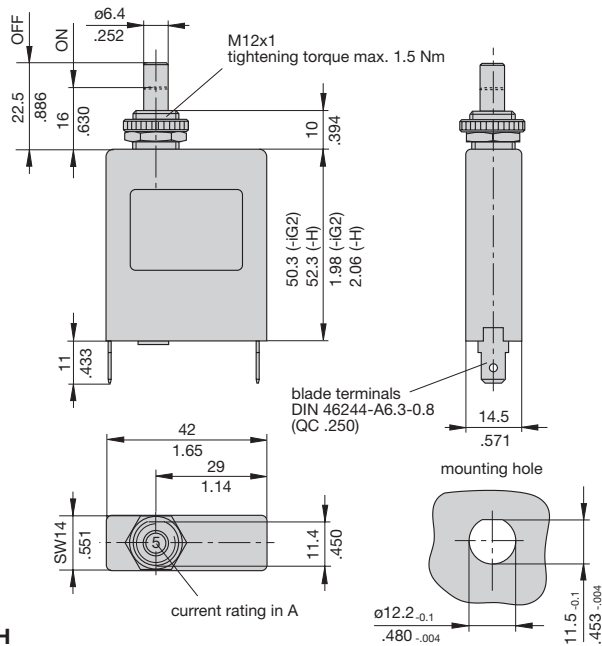
Voltage rating	AC 250 V, 50/60 Hz; DC 65 V (UL: AC 250 V; DC 80 V)	
Current ratings	0.05...16 A	
Auxiliary circuit	1 A, AC 250 V / DC 65 V	
Typical life	with -H: 5,000 operations at $1 \times I_N$ , inductive 5,000 operations at $2 \times I_N$ , resistive without -H: 0.05...8 A > 8 A 5,000 operations at $2 \times I_N$ , inductive 1,500 operations at $2 \times I_N$ , inductive	
Ambient temperature	-30...+60 °C (-22...+140 °F)	
Insulation co-ordination (IEC 60664 and 60664 A) operating area	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	
main circuit/aux. circuit	AC 1,500 V	
aux. circuit 4-5/6-7	AC 840 V	
Insulation resistance	> 100 M $\Omega$ (DC 500 V)	
Interrupting capacity $I_{cn}$	0.05...0.8 A 1...2 A 2.5...16 A	self-limiting 200 A 400 A
Interrupting capacity (UL 1077)	$I_N$ 0.05...16 A 0.05...16 A	$U_N$ AC 250 V 1,000 A DC 80 V 1,000 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	3300: approx. 55 g 3400: approx. 50 g	

## Approvals

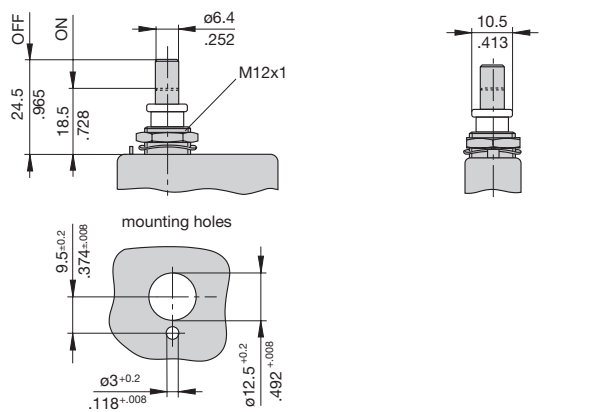
Authority	Voltage ratings	Current ratings
VDE (EN 60934)	AC 240 V; DC 65 V	0.05...16 A
CSA, UL	AC 250 V; DC 80 V	0.05...16 A

## Dimensions

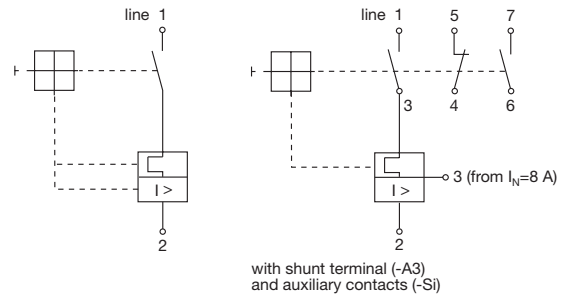
### -iG2-P10



### -H

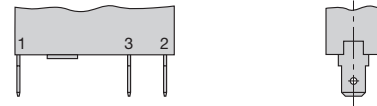


## Internal connection diagrams

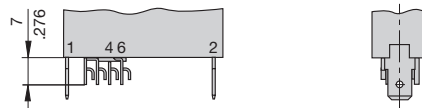


## Terminal design

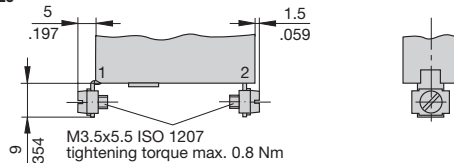
### -P10-A3



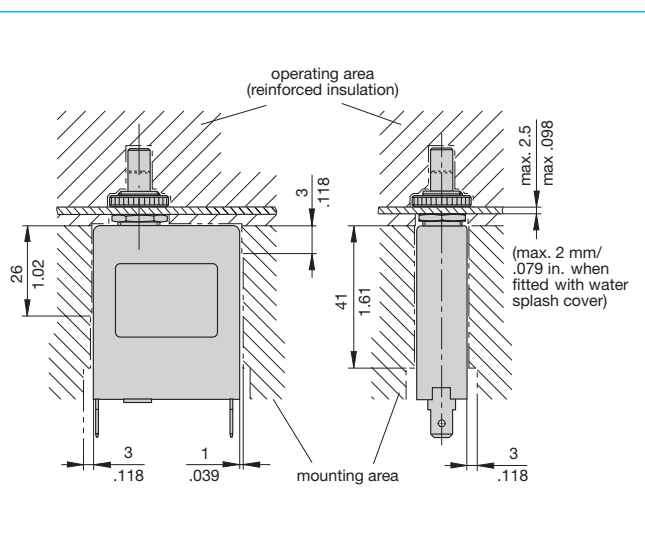
### -P10-Si



### -K20

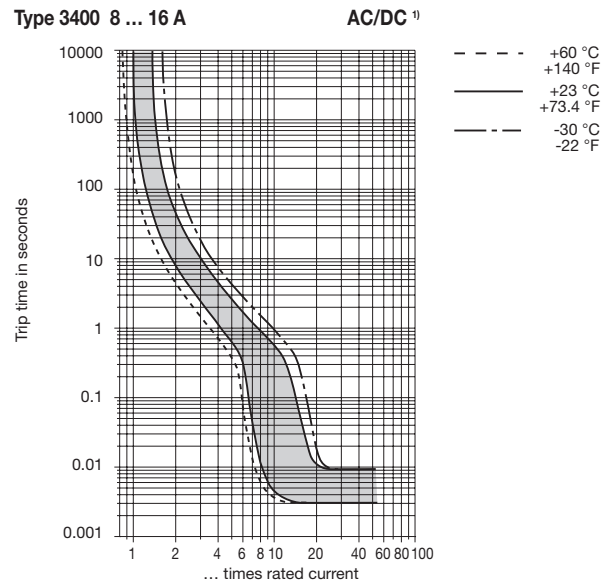
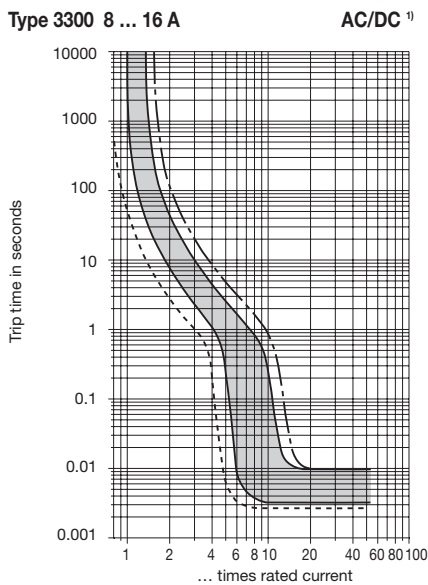
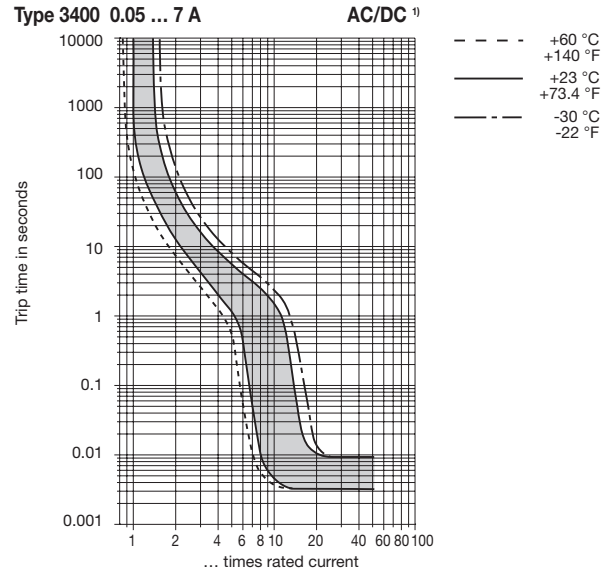
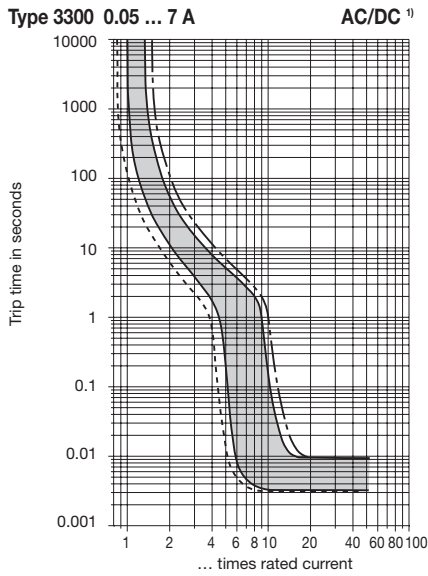


## Installation drawing



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

## Typical time/current characteristics



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

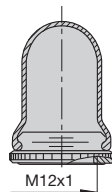
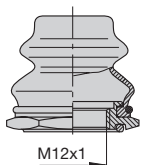
<sup>1)</sup> Magnetic tripping currents are increased by 20% on DC supplies.

## Accessories

**For push buttons with M12 moulded threadneck (-iG2)**  
(not with manual release -H)

**Hex nut with splash cover**  
 X 201 296 01 black (IP64)  
 X 200 801 08 transparent,  
 with O-ring (IP66)

**Water splash cover, transparent with knurled nut**  
 X 210 663 01 (IP64)



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

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.

## 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 flange for panel mounting, and optional auxiliary contacts and unprotected shunt tap terminal. Type 4000 offers lower internal resistance values and is fitted as standard with auxiliary contacts and an intermediate reset position in which all contacts are isolated.

Approved to CBE standard EN 60934 (IEC 60934).

## Typical applications

Control systems, instrumentation, medical equipment, machine tools, robotics, communications systems.

## Ordering information

<b>Type No.</b>	
3500	standard version
4000	low resistance version
<b>Mounting (optional)</b>	
F11	flange with additional M3 insertion nuts
<b>Terminal design</b>	
P10	blade terminals 6.3-0.8 (QC .250), tinned
K20	screw terminals M3.5x5.5 with clamp (not with -Si or type 4000)
<b>Shunt terminal (optional)</b>	
A3	same as main terminals (up to $I_N = 7$ A, max. load 5 A)
<b>Auxiliary contacts (optional with type 3500)</b>	
Si	auxiliary contacts, silver plated terminals one each N/O and N/C
ZR-Si	auxiliary contacts with intermediate position (standard with type 4000)
<b>Current ratings</b>	
0.05...16 A (type 3500)	
0.05...10 A (type 4000)	
3500 - .. - P10 - A3 - Si - 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 ratings (A)	Internal resistance (Ω)		Current ratings (A)	Internal resistance (Ω)	
	3500	4000		3500	4000
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	5.4	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			



**3500** standard type      **4000** low-resistance type

## Technical data

For further details please see chapter: Technical Information

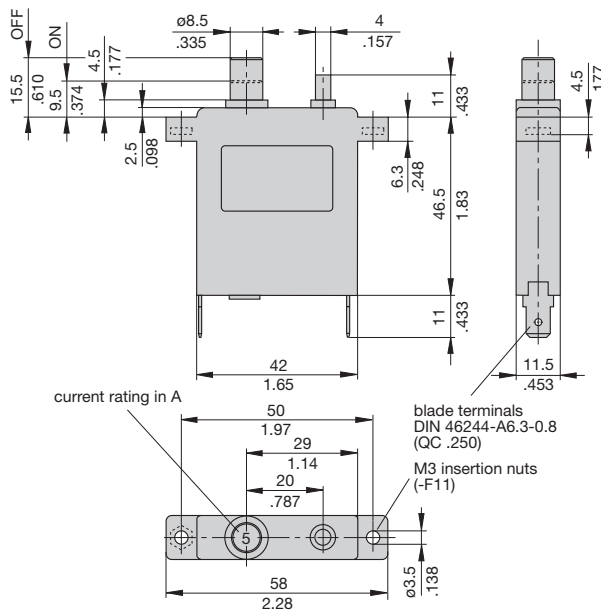
Voltage rating	AC 240 V, 50/60 Hz; DC 65 V (UL: AC 250 V; DC 80 V)		
Current rating range	3500: 0.05...16 A 4000: 0.05...10 A		
Auxiliary circuit	1 A, AC 240 V / DC 65 V		
Typical life	5,000 operations at 1 x $I_N$ , inductive 5,000 operations at 2 x $I_N$ , resistive		
Ambient temperature	-30...+60 °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)	test voltage operating area AC 3,000 V main/aux. circuit AC 1,500 V aux. circuit 4-5/6-7 AC 840 V		
Insulation resistance	> 100 MΩ (DC 500 V)		
Interrupting capacity $I_{cn}$	3500 0.05...0.8 A 1...2 A 2.5...16 A	4000 0.05...0.2 A 0.3...2 A 2.5...10 A	self-limiting 200 A 400 A
Interrupting capacity (UL 1077)	$I_N$ 0.05...16 A type 3500: 0.05...16 A	$U_N$ AC 250 V DC 80 V	1,000 A 1,000 A
Degree of protection (IEC 60529/DIN 40050)	operating area IP40 terminal area IP00		
Vibration	5 g (57-500 Hz), ±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. 40 g		

## Approvals

Authority	Voltage ratings	Current ratings
<b>3500:</b>		
VDE (EN 60934)	AC 240 V; DC 65 V	0.05...16 A
CSA, UL	AC 250 V; DC 80 V	0.05...16 A
<b>4000:</b>		
VDE (EN 60934)	AC 240 V; DC 65 V	0.05...10 A
CSA	AC 250 V	0.05...10 A

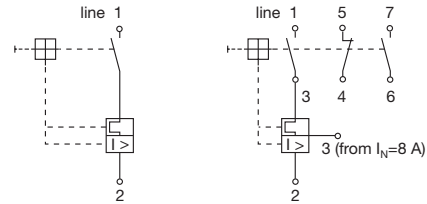
## Dimensions

### Version -P10

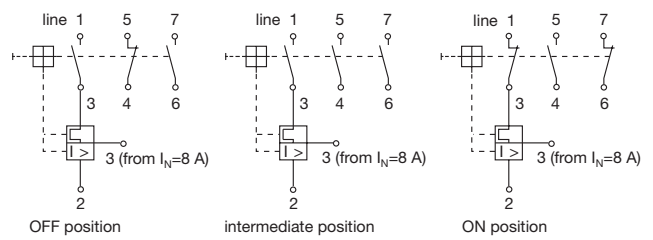


## Internal connection diagrams

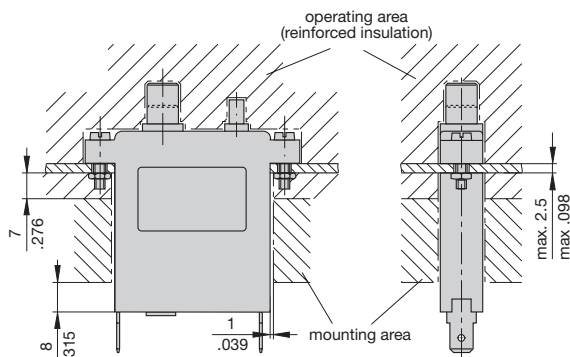
### with shunt terminal (-A3) and auxiliary contacts (-Si)



### Switching position with intermediate position and auxiliary contacts (-ZR-Si)

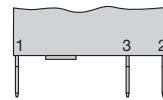


## Installation drawing

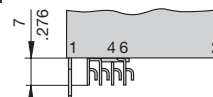


## Terminal design

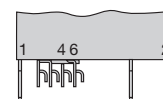
### -P10-A3



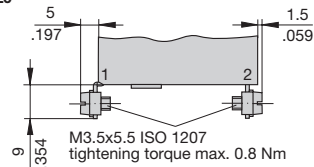
### -P10-Si



### -P10-A3-Si



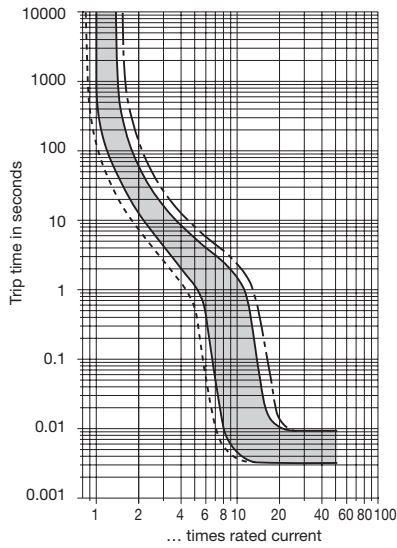
### -K20



## Typical time/current characteristics

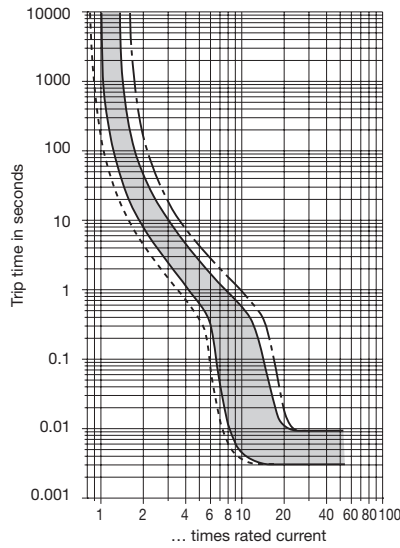
3500 0.05 ... 7 A

AC <sup>1)</sup>



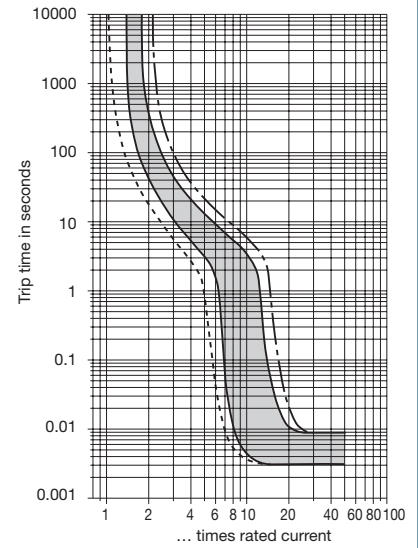
3500 8 ... 16 A

AC <sup>1)</sup>



4000 0.05 ... 10 A

DC <sup>2)</sup>



--- +60 °C +140 °F    ——— +23 °C +73.4 °F    - - - -30 °C -22 °F

- <sup>1)</sup> Magnetic tripping currents are increased by 20% on DC supplies.
- <sup>2)</sup> Magnetic tripping currents are decreased by 20% on AC supplies.

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

## Special version 3500-...-2100

Single pole thermal-magnetic overcurrent circuit breaker with slow magnetic trip curve, suitable for high inrush currents (up to  $12 \times I_N$ ). Suffix -2100 is also available for types 3400 and 3600. Enquire for further details.

## Typical applications

Industrial control systems, telecommunications, etc.

## Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance ( $\Omega$ )	Current rating (A)	Internal resistance ( $\Omega$ )
0.06	292	3	0.18
0.1	165	4	0.11
0.2	41.7	5	0.067
0.3	19.7	6	0.052
0.4	12.1	7	0.035
0.5	7.9	8	0.031
0.6	5.5	10	0.022
0.8	2.6	12	$\leq 0.02$
1	1.88	14	$\leq 0.02$
1.5	0.77	15	$\leq 0.02$
2	0.42	16	$\leq 0.02$
2.5	0.24		

## Special version 3500-...-2350

Single pole thermal-magnetic circuit breaker suitable for high ambient temperatures. The special rating of the circuit breaker allows resetting at no load in ambient temperatures up to  $+80^\circ\text{C}$ . Suffix -2350 is also available for types 3400 and 3600. Enquire for further details.

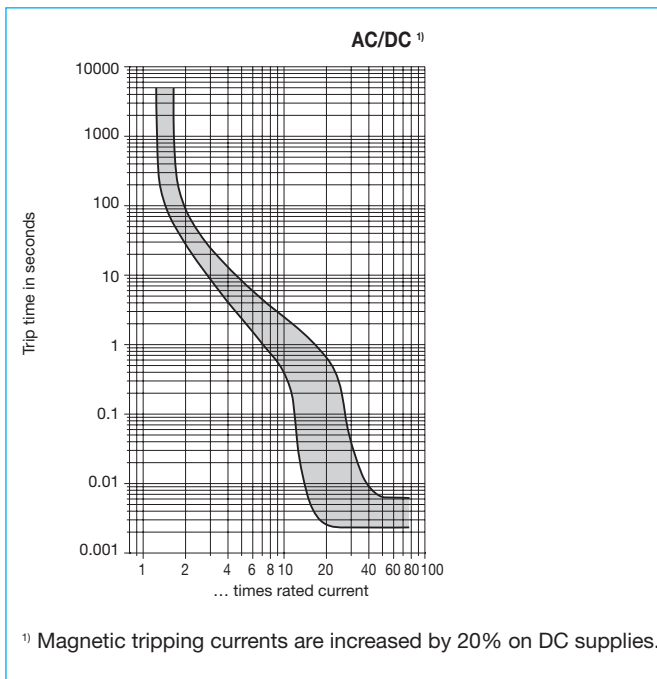
## Typical applications

Industrial control systems.

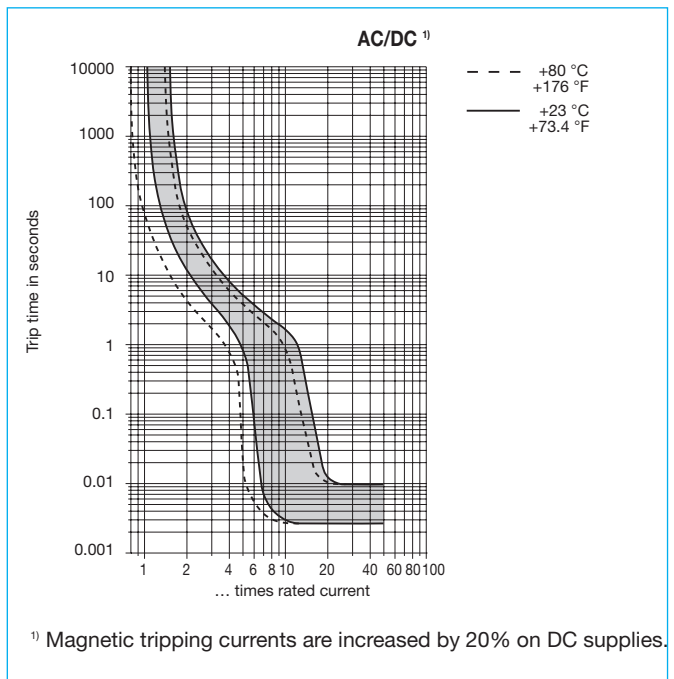
## Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance ( $\Omega$ )	Current rating (A)	Internal resistance ( $\Omega$ )
0.05	583	2.5	0.42
0.1	167	3	0.21
0.2	49.9	4	0.13
0.3	23.1	5	0.11
0.4	12.8	6	0.056
0.5	8.7	10	0.022
0.8	3.45	12	$\leq 0.02$
1	2.3	15	$\leq 0.02$
1.5	0.89	16	$\leq 0.02$
2	0.48		

## Typical time/current characteristics at $+23^\circ\text{C}$



## Typical time/current characteristics



## 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). Designed for plug-in mounting with E-T-A sockets 17-P10-Si, 23-P10-Si, 63-P10-Si; or panel mounting using E-T-A clips. Featuring an unprotected shunt tap terminal and optional auxiliary contacts. Type 3900 offers lower internal resistance values and is fitted as standard with auxiliary contacts and an intermediate reset position in which all contacts are isolated.

Approved to CBE standard EN 60934 (IEC 60934).

## Typical applications

Process control systems, instrumentation, communications systems, rail vehicles.

## Ordering information

Type No.	
3600	standard version with shunt tap terminal -3
3900	low-resistance version
Terminal design	
P10	blade terminals 6.3-0.8 (QC .250)
Auxiliary contacts (3900: intermediate position as standard)	
Si	with blade terminals 6.3-0.8, one each NO/NC,
Si60	special auxiliary contact (only 3900) 1 NO, closed in the intermediate and ON position
ZR-Si	auxiliary contacts with intermediate position (only 3600)
ZR-Si60	special auxiliary contact (only 3600) 1 NO, closed in the intermediate and ON position
Si3-R	special auxiliary contacts, 2 NC contacts with reset button (not approved)
Current ratings	
	0.05...16 A (type 3600)
	0.05...10 A (type 3900)
3600 - P10 - Si - 10 A ordering example	

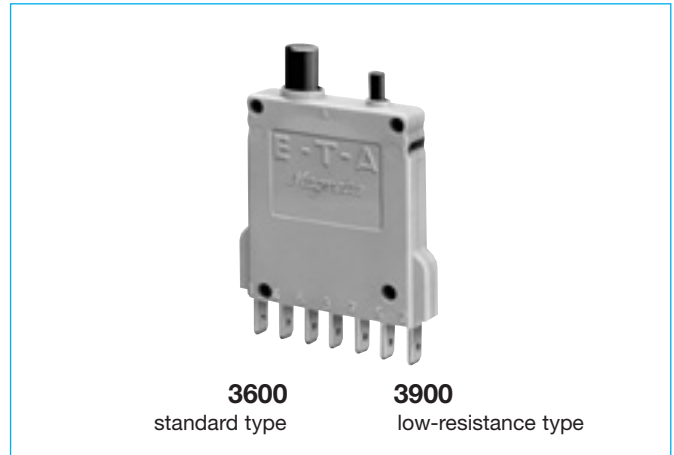
The exact part number required can be built up from the table of choices shown above. Ordering references for optional features should be omitted if not required.

## Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance (Ω)		Current rating (A)	Internal resistance (Ω)	
	3600	3900		3600	3900
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	5.4	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			

## Approvals

Authority	Voltage ratings	Current ratings
<b>3600:</b>		
VDE (EN 60934)	AC 240 V; DC 65 V	0.05...16 A
CSA/UL	AC 250 V; DC 80 V	0.05...16 A
<b>3900:</b>		
VDE (EN 60934)	AC 240 V; DC 65 V	0.05...10 A



**3600**  
standard type

**3900**  
low-resistance type

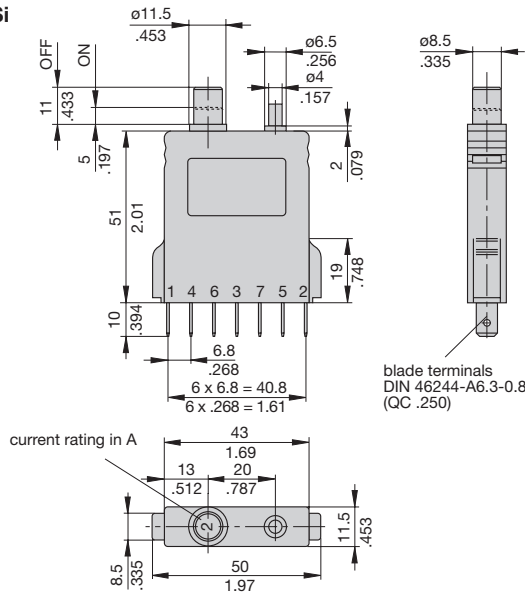
## Technical data

For further details please see chapter: Technical Information

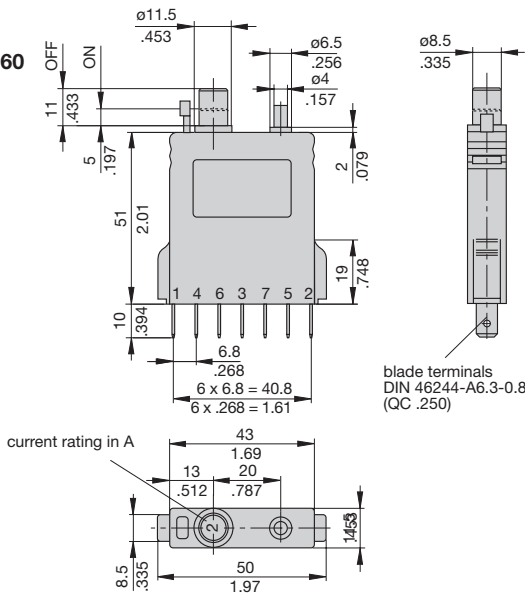
Voltage rating	AC 240 V, 50/60 Hz; DC 65 V (UL: AC 250 V; DC 65 V)	
Current rating range	3600: 0.05...16 A 3900: 0.05...10 A	
Auxiliary circuit	1 A, AC 240 V / DC 65 V	
Typical life	5,000 operations at 1 x I <sub>N</sub> , inductive 5,000 operations at 2 x I <sub>N</sub> , resistive	
Ambient temperature	-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)	test voltage operating area main/aux. circuit aux. circuit 4-5/6-7	AC 3,000 V AC 1,500 V AC 840 V
Insulation resistance	> 100 MΩ (DC 500 V)	
Interrupting capacity I <sub>cn</sub>	3600 0.05...0.8 A 1...2 A 2.5...16 A	3900 0.05...0.2 A 0.3...2 A 200 A 400 A
Interrupting capacity (UL 1077)	I <sub>N</sub> 0.05...16 A type 3600: 0.05...16 A	U <sub>N</sub> AC 250 V DC 80 V 1,000 A 1,000 A
Degree of protection (IEC 60529/DIN 40050)	operating area IP40 terminal area IP00	
Vibration	5 g (57-500 Hz), ±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. 45 g	

## Dimensions

### -P10-Si

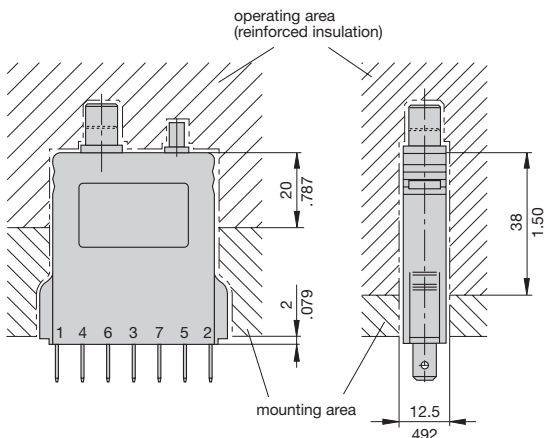


### -Si3-R -Si60 -ZR-Si60 -ZR-Si



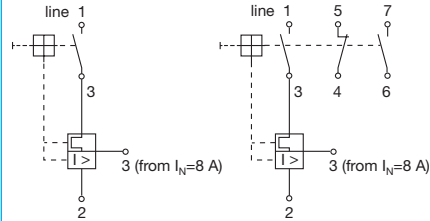
Intermediate position: Holding down reset button and actuating manual release simultaneously.

## Installation drawing

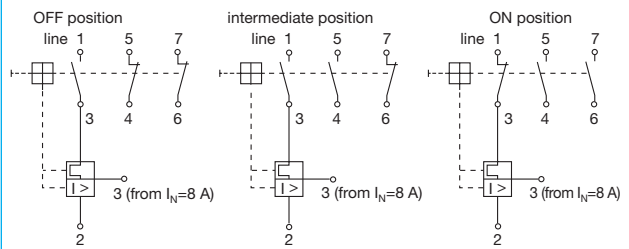


## Internal connection diagrams

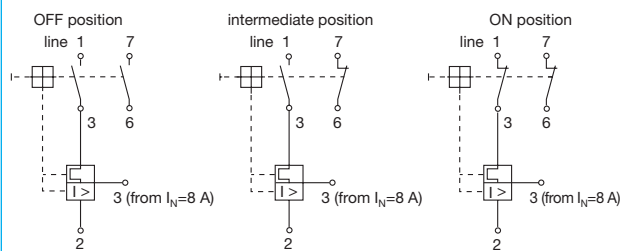
### with shunt terminal (standard) and auxiliary contacts (-Si) only 3600



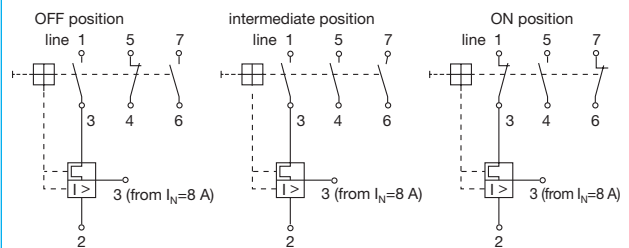
### Switching position with auxiliary contacts and reset button (-Si3-R)



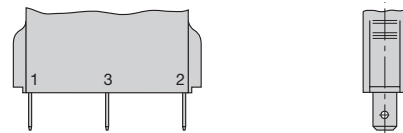
### Switching position with special auxiliary contact (-Si60, -ZR-Si60)



### Switching position with intermediate position and auxiliary contacts (3600: -ZR-Si, 3900: -Si)

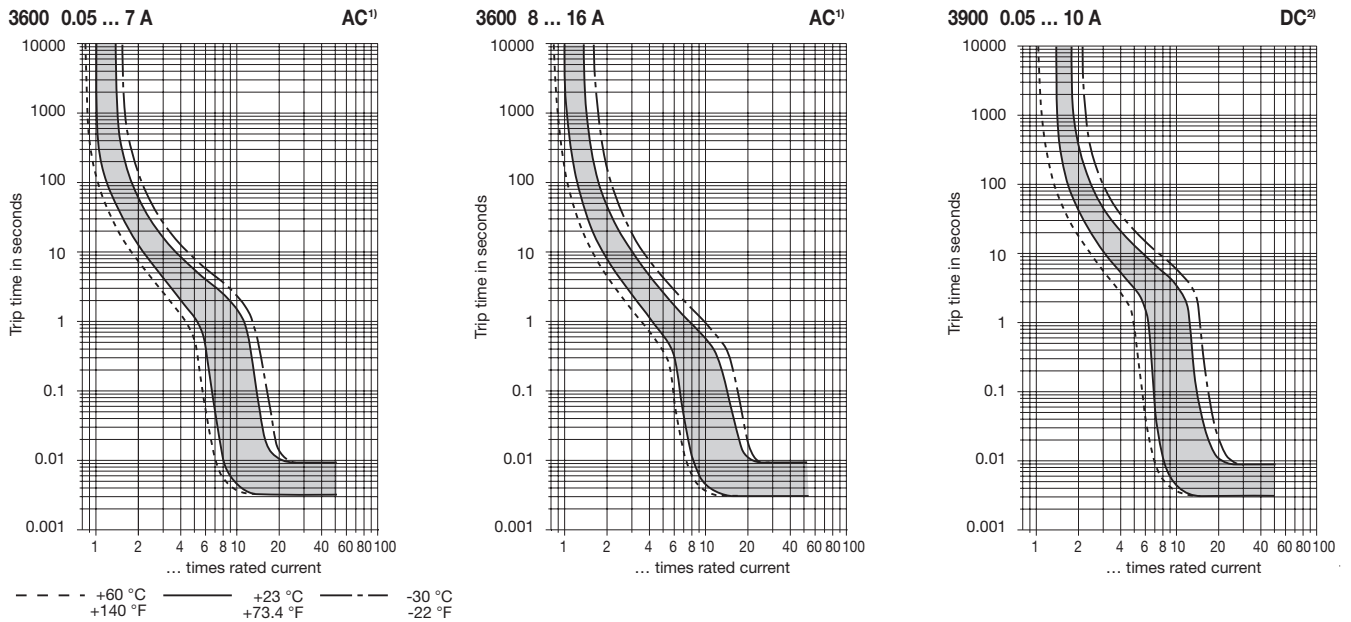


## Terminal design -P10



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

## Typical time/current characteristics



- <sup>1)</sup> Magnetic tripping currents are increased by 20% on DC supplies.
- <sup>2)</sup> Magnetic tripping currents are decreased by 20% on AC supplies.

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

## Accessories

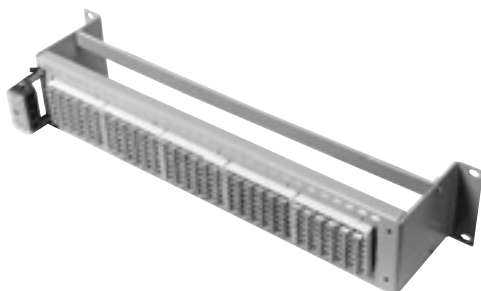
### Module 17plus

Modular power distribution system for circuit breakers 2210-S, 3600 or 3900.  
For technical details see product group 7.



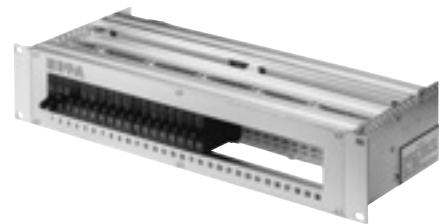
### 19" Rack

accommodating up to 30 E-T-A thermal-magnetic circuit breakers type 3600-P10-Si or 3900-P10-Si.  
For technical data see product group 7.



### 19" Rack 19BGT2 2U

for 18, 24 or 30 circuits.  
For technical data see product group 7.



## Accessories

### Sockets

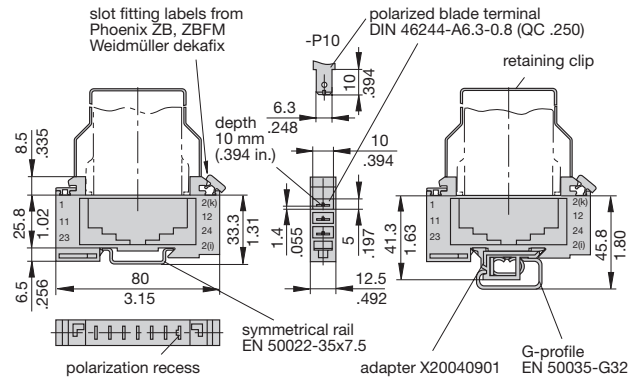
#### 17-P10-Si

(up to 16 A max. load)

Retaining clip Y 300 581 11 to special order.

#### 17-P10-Si-20025

mounted with adapter



### Sockets

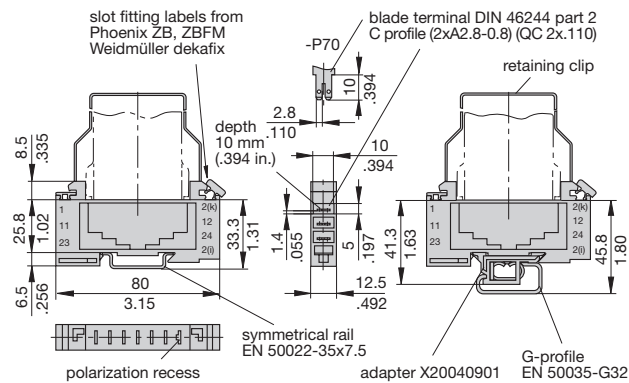
#### 17-P70-Si

(up to 16 A max. load)

Retaining clip Y 300 581 11 to special order.

#### 17-P70-Si-20025

mounted with adapter



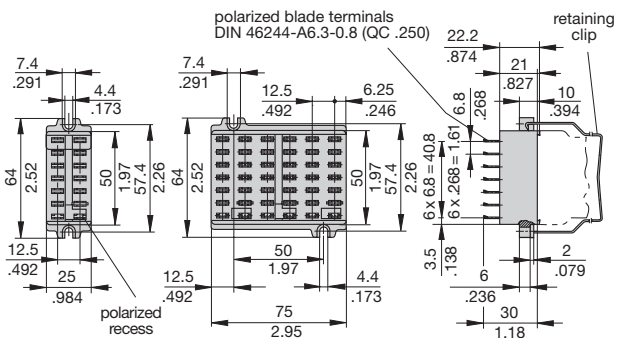
### Sockets

#### 23-P10-Si

(up to 16 A max. load)

Retaining clip Y 300 581 03 to special order.

#### 63-P10-Si

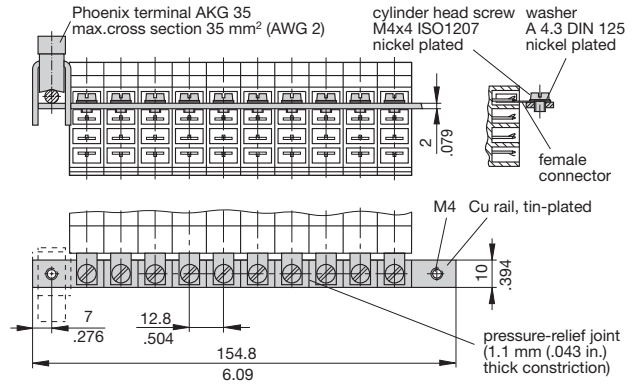


### Bus bar (10-way) (supplied as a complete package) for socket 17 (for max. 100 A continuous load)

#### X 211 157 01 with terminal

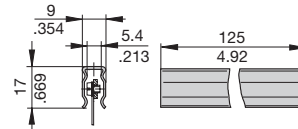
#### X 211 157 02 without terminal

(more positions available on request)



### Insulate sleeving for bus bar

#### Y 303 824 01



### Connector bus links -P10

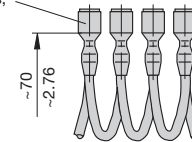
X 210 588 01/ 1.5 mm² (AWG 16), brown up to 13 A max. load

X 210 588 02/ 2.5 mm² (AWG 14), black up to 20 A max. load

X 210 588 03/ 2.5 mm² (AWG 14), red up to 20 A max. load

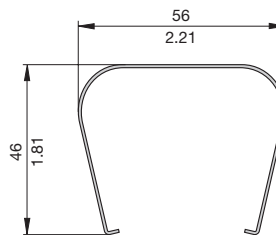
X 210 588 04/ 2.5 mm² (AWG 14), blue up to 20 A max. load

100 quick-connect tabs 6.3 (.250) DIN 46247 tinned brass, insulated



### Extraction tool

#### Y 301 398 02

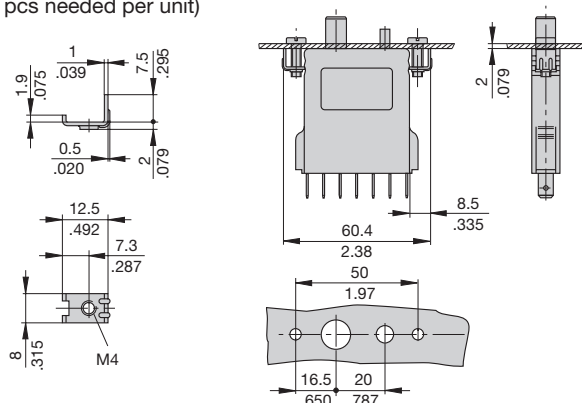


### Mounting clip

#### Y 300 504 02

(2 pcs needed per unit)

Installation drawing with mounting clips Y 300 504 02



This is a metric design and millimeter dimensions take precedence (mm/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.