

ETA® Thermal Overcurrent Circuit Breaker 3120-F...

Description

An extremely versatile range of rocker switch/thermal circuit breakers (S-type TO CBE to EN 60934) offering the choice of single pole, double pole with single pole protection, and double pole with protection on both poles. Designed for snap-in panel mounting with versions available for three different panel cut-out sizes. Neon illumination is optional (filament bulb for low voltages) and there is a range of colours and markings for the rocker. Under overload conditions the rocker returns to the OFF position.

Any one of the following additional function modules can be supplied factory fitted to the rear of the switch/circuit breaker.

- Under voltage release coil (for double pole versions only).
- Magnetic trip coil for short circuit protection - see page 113.
- Magnetic trip coil for remote relay trip.
- Auxiliary contacts for status signalling.
- Mechanical slide interlock.

Typical applications

Motors, transformers, solenoids, extra low voltage wiring systems, office machines, electro-medical equipment, power supplies, communications systems.

Accessories

- Y 303 068 01 Insulated cover, snap-fitted to the exposed areas of the two incoming terminals (when terminal screws are not specified) to provide brush contact protection.
- Y 303 862 01 Terminal adapter to convert screw terminals to push on connections when factory fitted under voltage release module is specified (two adapters required per unit).
- Y 303 675 01 Retaining clip for -F3 mounting frame for panel thickness under 2 mm.
- Y 303 675 02 As above for panel thickness under 4 mm.
- Y 303 885 31 Blanking piece in -F3 size mounting frame.
- Y 304 275 01 Rear terminal shroud.
- X 210 832 01 Separate water splash cover for use with -F4 and -F5 size mounting frames.

Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance per pole (Ω)	Current rating (A)	Internal resistance per pole (Ω)
0.1	94	3.5	0.0565
0.2	24	4	0.0435
0.3	12	4.5	0.0435
0.4	5.30	5	0.0325
0.5	4.20	6	0.0215
0.6	2.90	7	0.0165
0.8	1.50	8	0.0165
1	0.9	10	<0.02
1.2	0.80	12	<0.02
1.5	0.45	14	<0.02
2	0.27	16	<0.02
2.5	0.0785	18	< 0.02
3	0.0595	20	< 0.02

Approvals

Authority	Voltage ratings	Current ratings
VDE, ABS, BV, LRoS	AC 250 V, DC 28 V	0.1...20 A
Fimko, SEV	AC 250 V	0.1...16 A
Demko, Nemko	AC 250 V, DC 28 V	0.1...16 A
UL, CSA	AC 250 V, DC 50 V	0.1...20 A
Semko	AC 250 V, DC 28 V	0.1...16 A (without illumination)



3120-F...

Technical data

Max. voltage rating	AC 250 V; DC 28 V (DC 50 V UL/CSA)		
Current ratings	0.1...20 A		
Protection class (IEC 730-1)	I (II when mounted to the installation drawing)		
Typical life	50,000 operations for I _N <16 A double pole 30,000 operations for I _N <16 A single pole, 10,000 operations for I _N >16 A		
Temperature range	0...+55 °C		
Creepage resistance	PTI 400 to IEC 112		
Insulation co-ordination (IEC 664 and 664 A)	Rated impulse withstand voltage	Pollution degree	
	operating area	4 kV	3
	between poles (2 pole)	4 kV	3
Dielectric strength (IEC 664 and 664A)	Test voltage		
	operating area	AC 4000 V (double insulation)	
	between poles (2 pole)	AC 2000 V	
Insulation resistance	>100 MΩ (DC 500 V)		
Interrupting capacity (VDE 0660, Part 101, P-2)	0.1...2 A	10 x I _N	
	2.5...20 A	300 A 2 pole, or 150 A 1 pole	
Interrupting capacity (UL 1077/EN 60934 PC1))	I _N	U _N	2 pole
	0.1... 2 A	AC 250 V	200 A
	2.5... 3 A	AC 250 V	1000 A
	3.5... 8 A	AC 250 V	2000 A
	9 ... 16 A	AC 250 V	3500 A
	18... 20 A	AC 250 V	5000 A
	0.1...20 A	DC 50 V	1000 A
Environmental protection (IEC 529/DIN 40050)	operating area IP 40 (IP 54 with water splash protection) terminal area IP 00		
Vibration	8 g (57-500 Hz), ±0.61 mm (10-57 Hz) to IEC 68-2-6, Test Fc 10 frequency cycles/axis		
Shock	30 g (11 ms) to IEC 68-2-27, Test Ea		
Corrosion	96 hours at 5 % saltspray, to IEC 68-2-11, Test Ka		
Humidity	240 hours at 95 % RH, to IEC 68-2-3, Test Ca		
Mass	approx. 33 g (double pole)		
	approx. 27 g (single pole)		

ETA® Thermal Overcurrent Circuit Breaker 3120-F...

Ordering information

Type No.	
3120	rocker switch/circuit breaker
Mounting	
F	snap in frame
Size of frame	
3	to fit mounting cut-out 50.5x21.5 mm
4	to fit mounting cut-out 44.5x22 mm
5	to fit mounting cut-out 44.5x 22 mm
6	to fit mounting cut-out 45x33.7 mm
Number of poles	
0	2 pole, unprotected, switch only
1	1 pole, thermally protected
2	2 pole, thermally protected
5	2 pole, thermally protected on one pole only (terminals 12, 12k, 12l)
6	1 pole, unprotected, switch only
Mounting frame design	
1	collar height 1 mm
3	collar height 9 mm
4	collar height 2 mm with water splash protection (IP 54), not with -F6...
Terminal configuration	
P7	blade terminals 2x2.8x0.8 mm (terminals 12(k), 22(k), 11, 21), not for zero voltage module, not for switch
H7	12(k), 22(k): blade terminals 2x2.8-0.8
N7	11, 21: terminal screws, not for switch
N7	as P7, but including shunt terminals 12(i) and 22 (i) as blade terminals 2x2.8x0.8 mm not for zero voltage module
G7	as H7, but including shunt terminals 12(i) and 22 (i) as blade terminals 2x2.8x0.8 mm
Characteristic curve	
T1	thermal, 1.01-1.4 x I _N
Q1	switch only - 20 A rated
Actuator style	
W	rocker
Switch colour designation	
opaque	translucent
	(for illuminated versions)
01 black	12 white
02 white	14 red
04 red	15 orange
	19 green
Rocker markings	
A	
B	
C	
E	
F	
X	
X = without marking	
Rocker illumination (optional)	
B	filament, AC/DC
G	green LED, DC
Y	yellow LED, DC
R	red LED, DC
Illumination voltage range/ power consumption	
0	4 - 7 V marked 6 V 80 mA
1	10 -14 V marked 12 V 75 mA
2	20 -28 V marked 24 V 35 mA
3	90-140 V marked 115V <1 mA
4	185-275 V marked 230V <1 mA
5	42- 54 V marked 48 V 35 mA
Current ratings	
0.1...20 A	

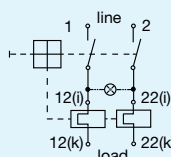
3120 - F 3 2 1 - N7 T1 - W 14 A B 4 - 5 A ordering example

N.B.

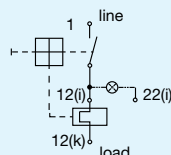
Switch only versions must be specified with -N7 or -G7 terminals.
Terminals 12(k) and 22(k) are not fitted.

Internal wiring diagrams

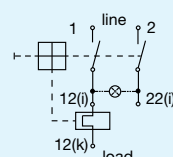
2 pole,
thermally protected on both poles



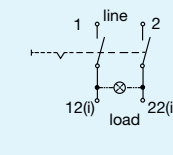
1 pole,
thermally protected



2 pole,
thermally protected on one pole only



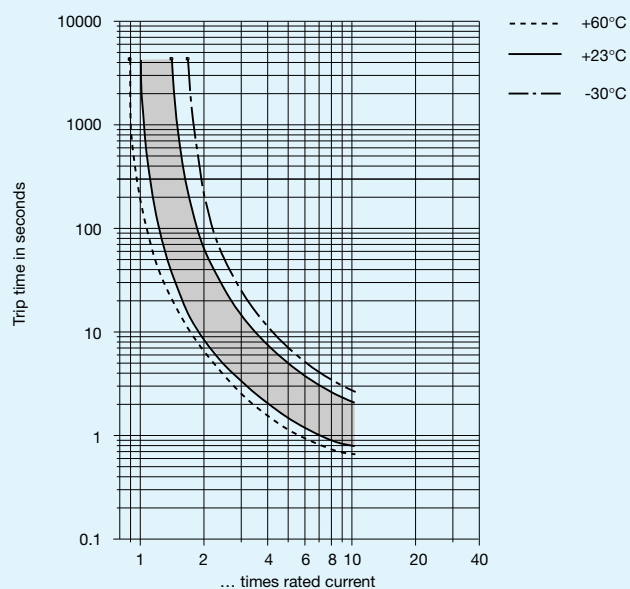
2 pole,
unprotected



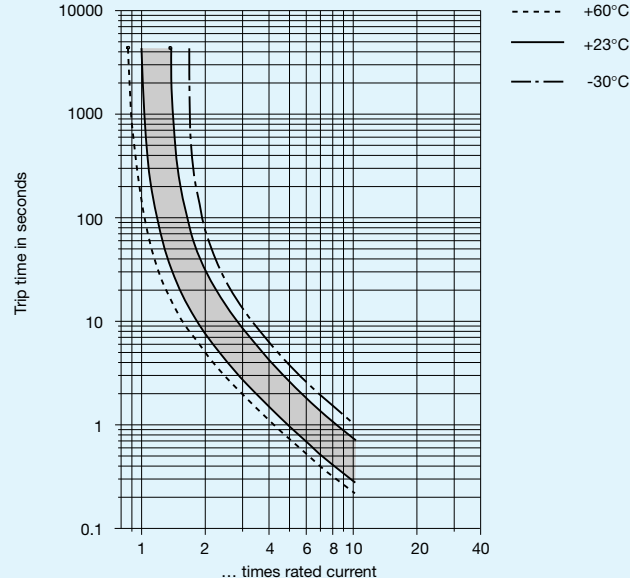
Typical time/current characteristics

Single or double pole load

0.1...2 A



2.5...20 A

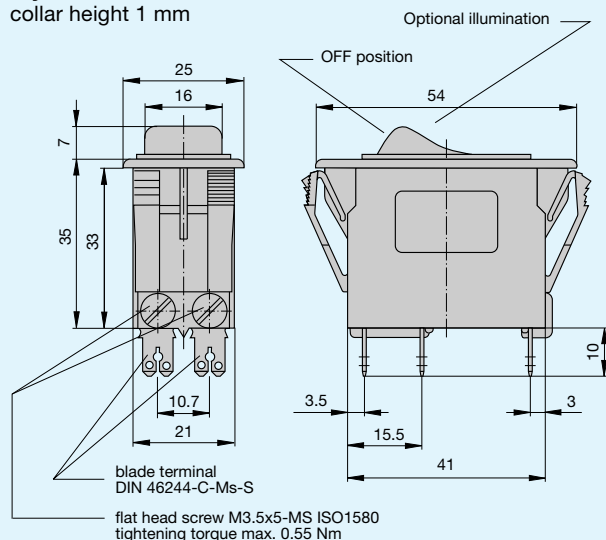


ETA® Thermal Overcurrent Circuit Breaker 3120-F...

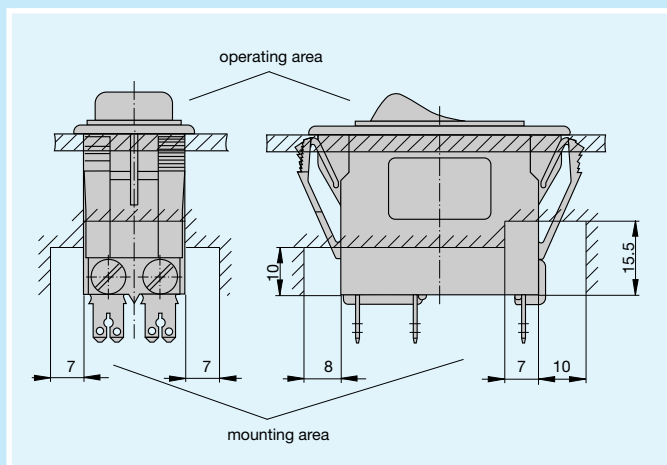
Dimensions

Style F3.1

collar height 1 mm

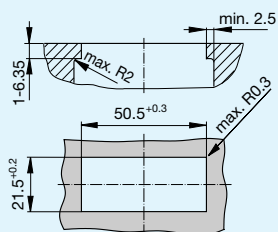


Installation drawing for protection class II (IEC 730-1)

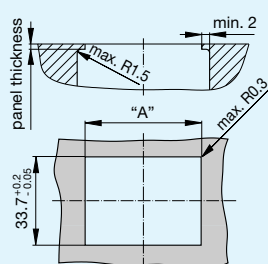


Cut-out dimensions

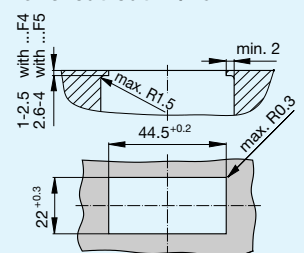
Panel cut-out F3



Panel cut-out F6



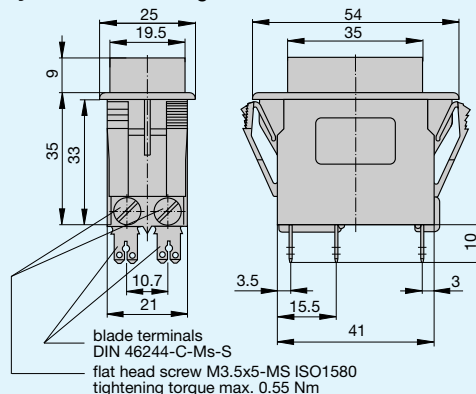
Panel cut-out F4/F5



panel thickness	1.2 ^{+0.4} _{-0.05}	1.6 ^{+0.8} _{-0.05}	2.4 ^{+1.1} _{-0.05}
dimension "A"	45 ^{+0.2} _{-0.05}	45 ^{+1.1} _{-0.05}	45 ^{+2.2} _{-0.05}

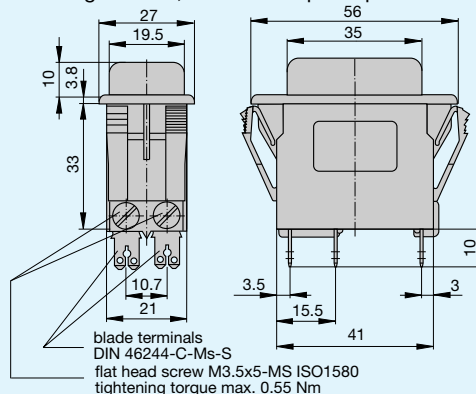
Mounting style variants

Style F3.3 collar height 9 mm

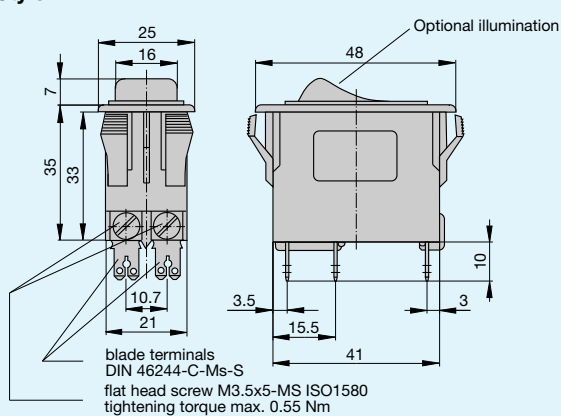


Style F3.4

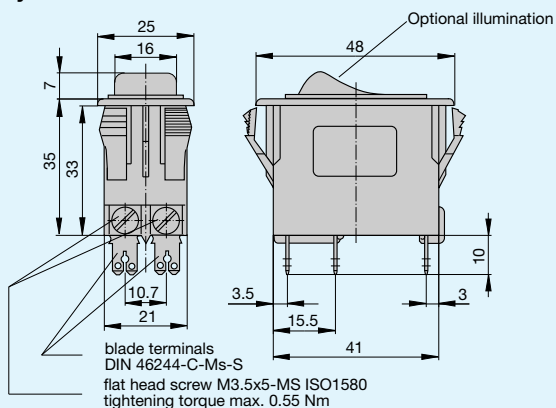
collar height 2 mm, with water splash protection



Style F 4.1



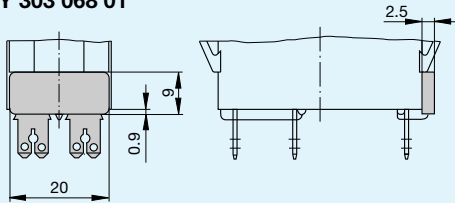
Style F 5.1



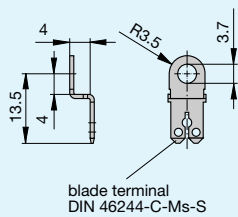
Dimension diagram for style F6 is available on request.

Accessories

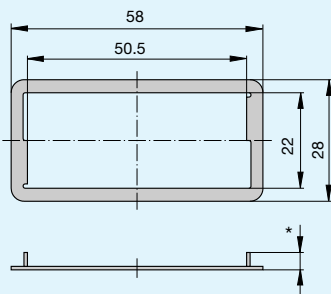
Insulated cover Y 303 068 01



Terminal adapter Y 303 862 01

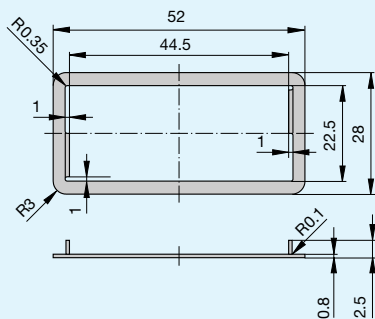


Retaining clip for 3120-F3... Ref. Y 303 675 01/02

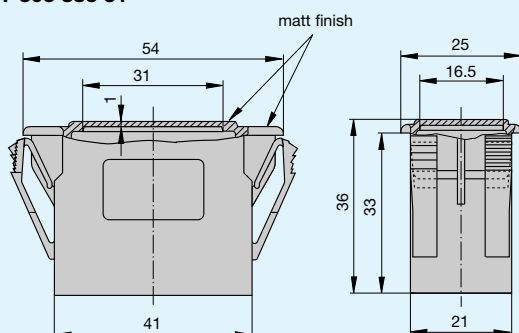


Y 303 675 01 suitable for
panel thickness < 2 mm
Y 303 675 02 suitable for
panel thickness < 4 mm

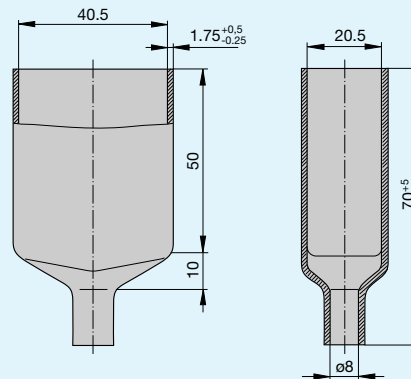
Retaining clip for 3120-F5... Ref. Y 303 676 01



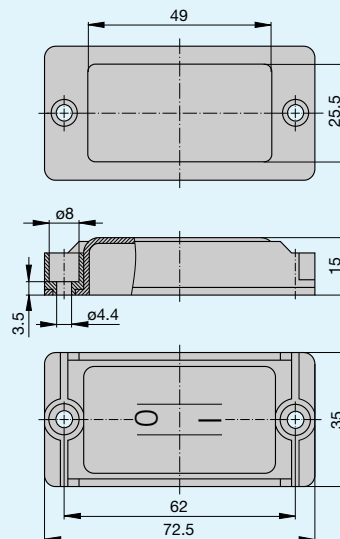
Blanking piece in -F3 frame Y 303 885 31



Rear terminal shroud black Y 304 275 01 (IP64)



Water splash cover, transparent (IP54) for styles -F4../-F5... X 210 832 01



ETA® Thermal Overcurrent Circuit Breaker 3120-F...

Description

Switch/thermal circuit breaker (S-type TO CBE to EN 60934) with standard isolator style two button operation. Single button press-to-reset version also available. Both types can be supplied in single pole configuration only, in double pole with single pole protection, and in double pole with protection on both poles. Designed for snap-in panel mounting. There is a choice of push button colour combinations and neon illumination (filament bulb for low voltages) is optional.

Any one of the following additional function modules can be supplied factory fitted to the rear of the switch/circuit breaker.

- Under voltage release coil (for double pole versions only).
- Magnetic trip coil for short circuit protection - see page 113.
- Magnetic trip coil for remote relay trip.
- Auxiliary contacts for status signalling.
- Mechanical slide interlock.

Typical applications

Motors, transformers, solenoids, extra low voltage wiring systems, office machines, electro-medical equipment, power supplies, communications systems, industrial controls.

Accessories

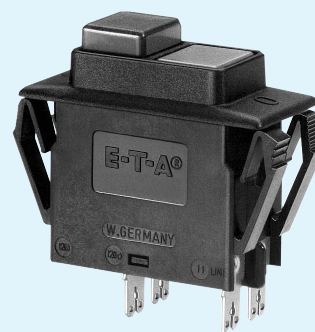
- Y 303 068 01 Insulated cover, snap-fitted to the exposed areas of the two incoming terminals (when terminal screws are not specified) to provide brush contact protection.
- Y 303 862 01 Terminal adapter to convert screw terminals to push on connections when factory fitted under voltage release module is specified (two adapters required per unit).
- Y 303 675 01 Retaining clip for -F3 mounting frame for panel thickness under 2 mm.
- Y 303 675 02 As above for panel thickness under 4 mm.
- Y 303 885 31 Blanking piece in -F3 size mounting frame.
- Y 304 275 01 Rear terminal shroud.
- X 210 832 01 Separate water splash cover for use with -F4 and -F5 size mounting frames.

Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance per pole (Ω)	Current rating (A)	Internal resistance per pole (Ω)
0.1	94	3.5	0.0565
0.2	24	4	0.0435
0.3	12	4.5	0.0435
0.4	5.30	5	0.0325
0.5	4.20	6	0.0215
0.6	2.90	7	0.0165
0.8	1.50	8	0.0165
1	0.9	10	<0.02
1.2	0.80	12	<0.02
1.5	0.45	14	<0.02
2	0.27	16	<0.02
2.5	0.0785	18	< 0.02
3	0.0595	20	< 0.02

Approvals

Authority	Voltage ratings	Current ratings
VDE, ABS, BV, LRoS	AC 250 V, DC 28 V	0.1...20 A
Fimko, SEV	AC 250 V	0.1...16 A
Demko, Nemko	AC 250 V, DC 28 V	0.1...16 A
UL, CSA	AC 250 V, DC 50 V	0.1...20 A
Semko	AC 250 V, DC 28 V	0.1...16 A (without illumination)



3120-F...

Technical data

Max. voltage rating	AC 250 V; DC 28 V (DC 50 V UL/CSA)		
Current ratings	0.1...20 A		
Protection class (IEC 730-1)	I (II when mounted to the installation drawing)		
Typical life	50,000 operations for I _N <16 A double pole 30,000 operations for I _N <16 A single pole, 10,000 operations for I _N >16 A		
Temperature range	0...+55 °C		
Creepage resistance	PTI 400 to IEC 112		
Insulation co-ordination (IEC 664 and 664 A)	Rated impulse withstand voltage	Pollution degree	
	operating area	4 kV	3
	between poles (2 pole)	4 kV	3
Dielectric strength (IEC 664 and 664A)	Test voltage		
	operating area	AC 4000 V (double insulation)	
	between poles (2 pole)	AC 2000 V	
Insulation resistance	>100 M Ω (DC 500 V)		
Interrupting capacity (VDE 0660, Part 101, P-2)	0.1...2 A	10 x I _N	
	2.5...20 A	300 A 2 pole, or 150 A 1 pole	
Interrupting capacity (UL 1077/EN 60934 PC1)	I _N	U _N	2 pole
	0.1... 2 A	AC 250 V	200 A
	2.5... 3 A	AC 250 V	1000 A
	3.5... 8 A	AC 250 V	2000 A
	9 ... 16 A	AC 250 V	3500 A
	18... 20 A	AC 250 V	5000 A
	0.1...20 A	DC 50 V	1000 A
Environmental protection (IEC 529/DIN 40050)	operating area IP 40 terminal area IP 00		
Vibration	8 g (57-500 Hz), ±0.61 mm (10-57 Hz) to IEC 68-2-6, Test Fc 10 frequency cycles/axis		
Shock	30 g (11 ms) to IEC 68-2-27, Test Ea		
Corrosion	96 hours at 5 % saltspray, to IEC 68-2-11, Test Ka		
Humidity	240 hours at 95 % RH, to IEC 68-2-3, Test Ca		
Mass	approx. 33 g (double pole)		
	approx. 27 g (single pole)		

ETA® Thermal Overcurrent Circuit Breaker 3120-F...

Ordering information

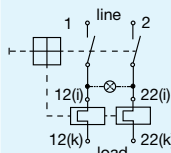
Type No.	
3120	push button switch/circuit breaker
Mounting	
F	snap in frame
Size of frame	
2	special frame for fitting splash cover
3	to fit mounting cut-out 50.5x21.5 mm, panel thickness 1-6.35 mm
Number of poles	
0	2 pole, unprotected, switch only
1	1 pole, thermally protected
2	2 pole, thermally protected
5	2 pole, thermally protected on one pole only (terminals 11, 12k, 12l)
6	1 pole, unprotected, switch only
Mounting frame design	
F	with 2 push buttons
G	with 1 push button (switch-on only)
Terminal configuration	
P7	blade terminals 2x2.8x0.8 mm (terminals 12(k), 22(k), 11, 21), not for zero voltage module, not for switch
H7	12(k), 22(k): blade terminals 2x2.8-0.8 11, 21: terminal screws, not for switch
N7	as P7, but including shunt terminals 12(l) and 22 (l) as blade terminals 2x2.8x0.8 mm not for zero voltage module
G7	as H7, but including shunt terminals 12(l) and 22 (l) as blade terminals 2x2.8x0.8 mm
Characteristic curve	
T1	thermal, 1.01-1.4 I _N
Q1	switch only, only for N7 or G7 terminal
Switch style/colour	
D	1 push button (re-set only)
01X	black
04X	red
12X	white translucent
19X	green translucent
S	2 push buttons on/off
GRX	green translucent/red
WRX	white translucent/red
WBX	white translucent/black
Push button illumination (optional)	
B	filament, AC/DC
L	neon, AC
G	green LED, DC
Y	yellow LED, DC
R	red LED, DC
Illumination voltage range	
0	6 V (B, G, Y, R)
1	12 V (B, G, Y, R)
2	24 V (B, G, Y, R)
3	115 V (L)
4	230 V (L)
5	48 V (B, G, Y, R)
Current ratings	
0.1...20 A	

3120 - F 3 2 F - N7 T1 - S GRX L 4 - 10 A ordering example

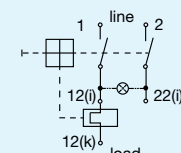
N.B.
Switch only versions must be specified with -N7 or -G7 terminals.
Terminals 12(k) and 22 (k) are not fitted.

Internal wiring diagrams

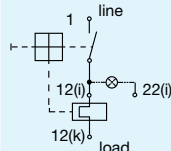
2 pole,
thermally protected



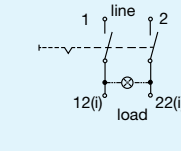
2 pole,
thermally protected on one pole only



1 pole,
thermally protected

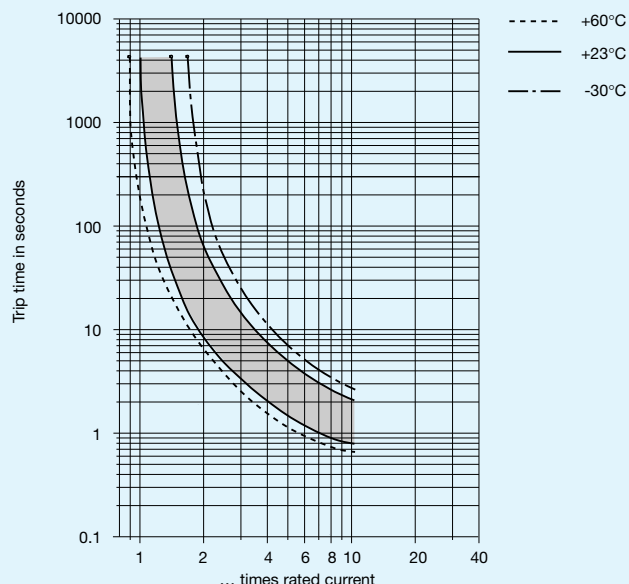


2 pole,
unprotected

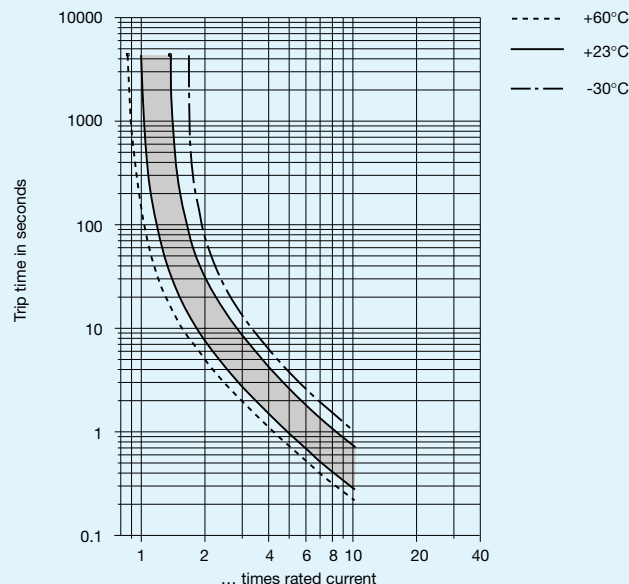


Typical time/current characteristics

1 or 2 pole load
0.1...2 A



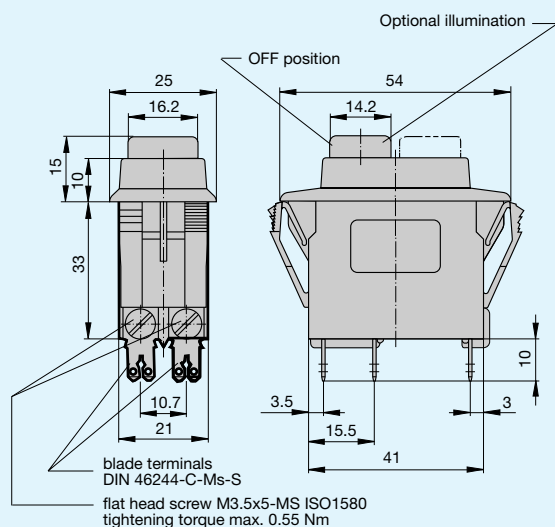
2.5...20 A



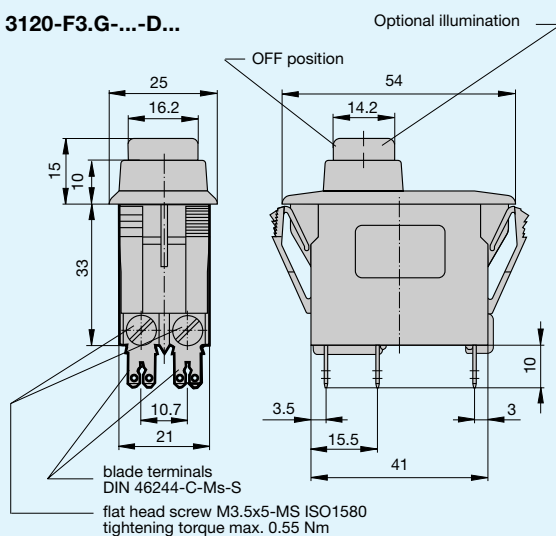
ETA® Thermal Overcurrent Circuit Breaker 3120-F...

Dimensions

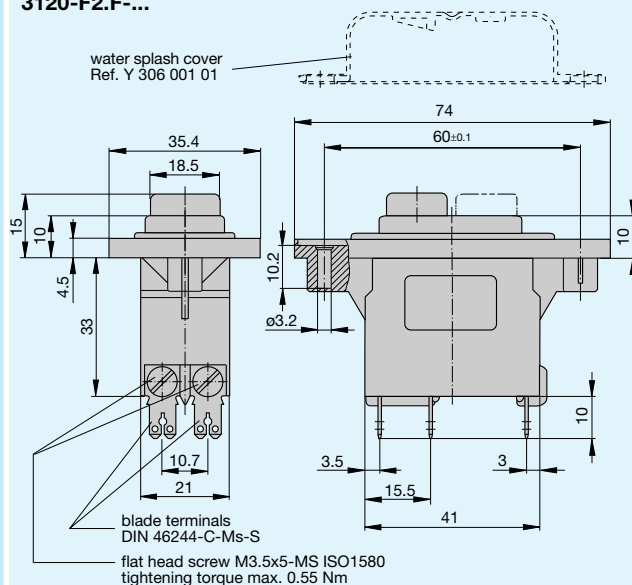
3120-F3.F-...-S...



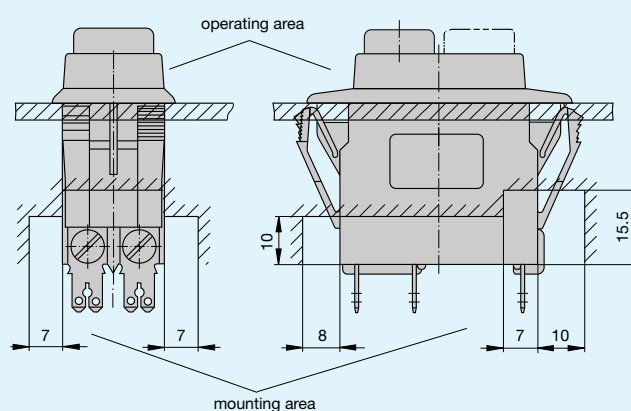
3120-F3.G-...-D...



3120-F2.F-...

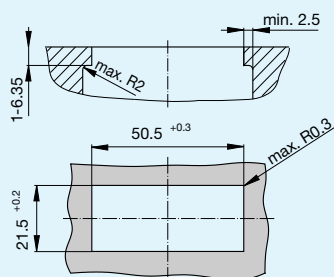


Installation drawing for protection class II (IEC 730-1)

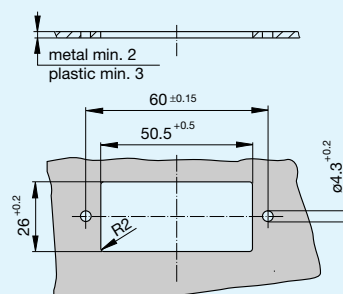


Panel cut-out

3120-F3...

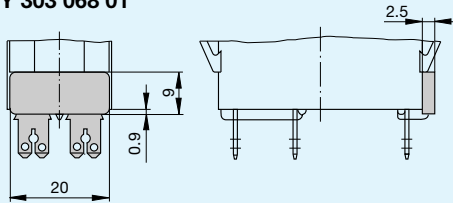


3120-F2...

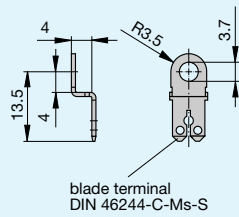


Accessories

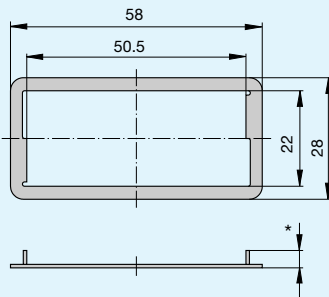
Insulated cover Y 303 068 01



Terminal adapter Y 303 862 01

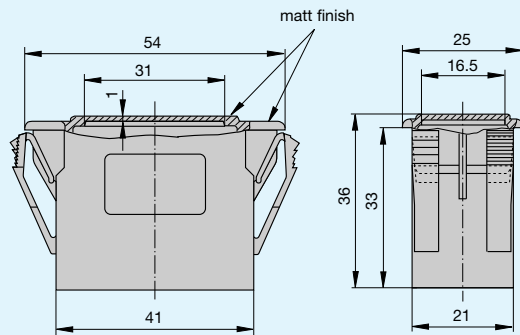


Retaining clip for 3120-F3... Ref. Y 303 675 01/02

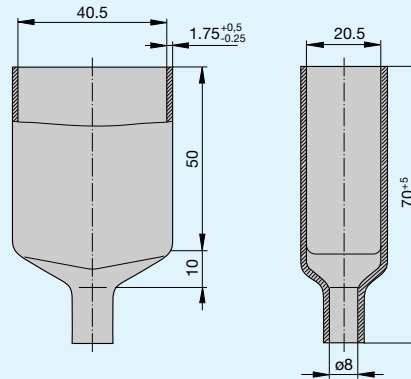


Y 303 675 01 suitable for
panel thickness < 2 mm
Y 303 675 02 suitable for
panel thickness < 4 mm

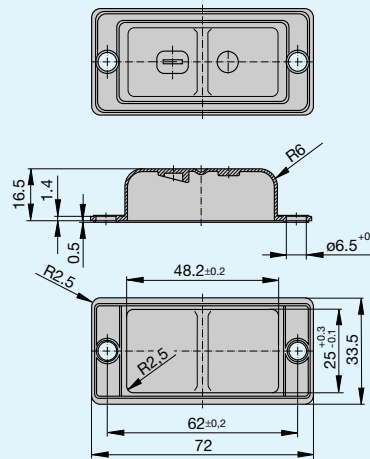
Blanking piece in -F3 frame Y 303 885 31



Rear terminal shroud black Y 304 275 01 (IP64)



Water splash cover, transparent (IP54) for style -F2 Y 306 001 01



Description

A module supplied factory fitted to type 3120 to provide electrically separate changeover contacts which operate as the main contacts open/close. Ideally suited to status signalling and sequence switching.

Typical applications

Monitoring of the switching position of the circuit breaker or any connected load.

Ordering information

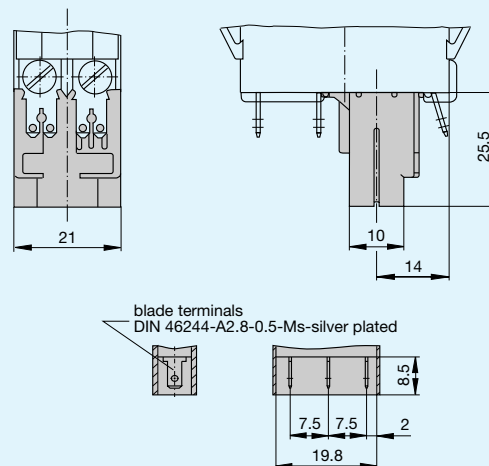
Type No.	
X3120	Module for type 3120
Function	
S	auxiliary contact module
Contact configuration	
0	change-over contact
Terminal design	
1	blade terminals 2.8 x 0.5, silver plated
Contact rating	
AC	
Voltage rating	Current rating
A 10-250 V	0.1...4 A
DC	
Voltage rating	Current rating
12 V	0.1...4 A
24 V	0.1...4 A
60 V	0.1...1 A
110 V	0.1...0.5 A
220 V	0.1...0.25 A
B 5-250 V	0.05...1 A
5 V-250 V	0.05...1 A
M	module mounted to circuit breaker 3120-...

ordering example: X3120 - S 0 1 A M

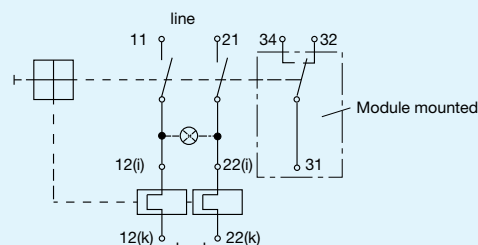
Approvals (complete circuit breaker/module assembly)

Authority	Voltage ratings	Current ratings
VDE	AC 250 V, DC 28 V	4 A
UL, CSA	AC 250 V	4 A

Dimensions



Internal wiring diagram



Technical data

Max. voltage rating	AC 250 V; DC 28 V	
Current rating	4 (1) A	
Typical life	50,000 operations	
Temperature range	0...+55 °C	
Creepage resistance	PTI 400 to IEC 112	
Insulation co-ordination (IEC 664 and 664A) between main and auxiliary circuit	Rated impulse voltage	Pollution degree
	4 kV	3
Dielectric strength (IEC 664 and 664A) between main and auxiliary circuit	Test voltage	
	AC 4000 V (double insulation)	
Insulation resistance	> 100 MΩ (DC 500 V)	
Vibration	6 g (type X3120-S...A) 8 g (type X3120-S...B) (57-500 Hz), ±0.46 mm (10-57 Hz) to IEC 68-2-6, test Fc 10 frequency cycles/axis	
Shock	15 g (11 ms), type X3120-S...A 20 g (11 ms), type X3120-S...B to IEC 68-2-27, test Ea	
Corrosion	96 hours at 5 % saltspray to IEC 68-2-11, test Ka	
Humidity	240 hours at 95 % RH to IEC 68-2-30, test Ca	
Mass	approx. 38 g (complete assembly)	

Description

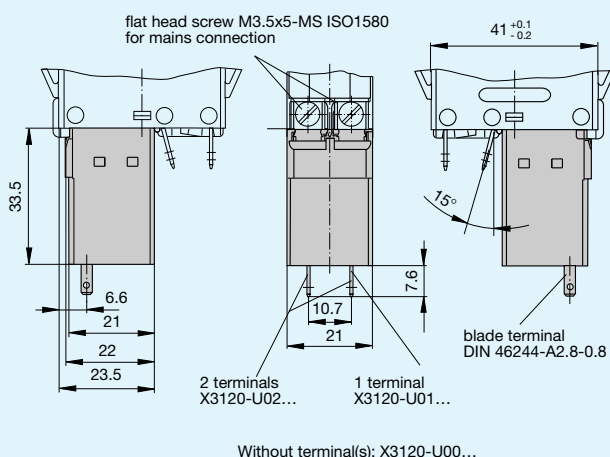
A module suitable for all double pole versions of type 3120 to trip the main switch/circuit breaker mechanism in the event of loss of voltage. When the voltage is restored the rocker switch must be reset to reconnect the load, thereby avoiding the safety hazards associated with automatic re-starting of machinery.

Note: Basic unit 3120-...-H7 or -G7 screw terminals necessary.

Typical applications

Machines and equipment starting automatically after voltage recovery and thus causing a hazard to the operator, e.g. power tools, industrial machines, domestic appliances.

Dimensions



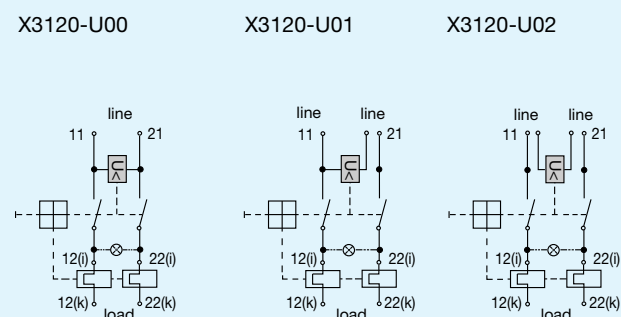
Ordering information

Type No.	
X3120	Module for type 3120
Function	
U	undervoltage release module
Terminal design	
00	standard (without separate connections)
01	1 blade terminal 2.8x0.8
02	2 blade terminals 2.8x0.8
Voltage ratings	
00	230/240 V AC 50/60 Hz
01	120 V AC 50/60 Hz
02	100 V AC 50/60 Hz
03	24 V DC
M	module mounted to the circuit breaker
X3120 - U 00 00 M	ordering example

Approvals (complete circuit breaker/module assembly)

Authority	Voltage ratings
VDE	pending
UL, CSA	pending

Internal wiring diagrams



Technical data

Voltage ratings	AC 100/120 V, 230/240 V 50/60 Hz DC 24 V
Typical life	50,000 operations (0.9 - 1.1 U _N)
Temperature range	0...+55°C
Creepage resistance	PTI 400 to IEC 112
Vibration	8 g (57-500 Hz) ±0.61 mm (10-57 Hz) to IEC 68-2-6, test Fc 10 frequency cycles/axis
Shock	30 g (11 ms) to IEC 68-2-27, test Ea
Corrosion	48 hours at 5 % salt spray to IEC 68-2-11, test Ka
Humidity	240 hours at 95% RH to IEC 68-2-30, test Ca
Mass	approx. 53 g (complete assembly)
Release delay	t < 20 ms
Latch-in values	> 85 % U _N
Release values	20 to 70 % U _N (at a rated voltage of AC 100 V the device may release at 70 V and must release at 20 V)

Description

A module which adds remote trip capability to all versions of type 3120. A voltage applied across the coil, by means of an external sensor for example, will cause disconnection of the main switch/circuit breaker mechanism.

Typical applications

Electrical monitoring of safety systems, remote trip.

Ordering information

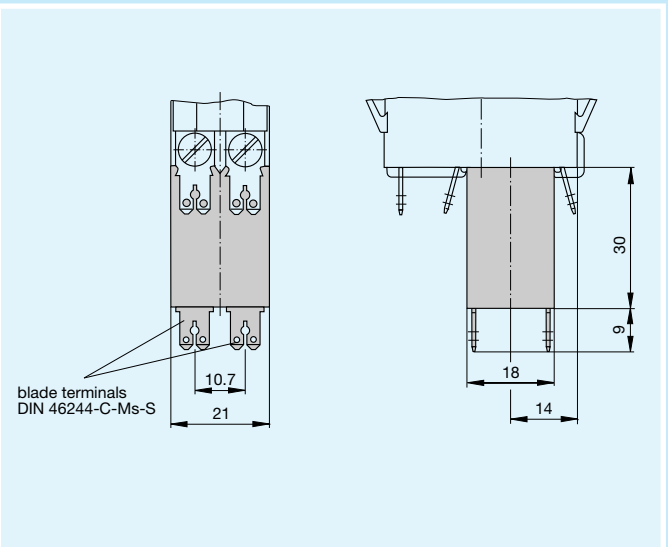
Type No.	
X3120	Module for type 3120
Function	
M	magnetic relay trip module
Style	
2	magnetic remote trip coil
Terminal design	
P7	blade terminals 2 x 2.8 x 0.8 tin plated
M	module mounted to the circuit breaker
Voltage ratings	
AC 48/60/120/220/230/240 V	
AC/DC 12/24 V	

X3120 - M 2 P7 M - 12 V ordering example

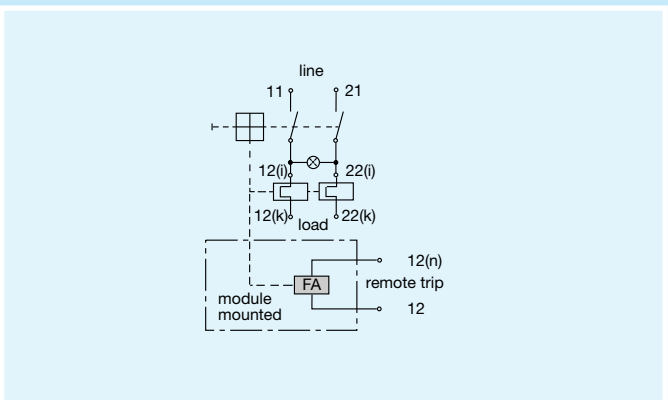
Approvals (complete circuit breaker/module assembly)

Authority	Voltage ratings
VDE	AC 12...240 V; DC 12...24 V
UL, CSA	AC 12...240 V; DC 12...24 V

Dimensions



Internal wiring diagram



Technical data

Max. voltage ratings	AC 12...240 V; DC 12...24 V	
Typical life	50,000 operations at U_N	
Temperature range	0...+55 °C	
Creepage resistance	PTI 400 to IEC 112	
Insulation co-ordination (IEC 664 and 664A) between main circuit and trip coil circuit	Rated impulse withstand voltage	Pollution degree
	4 kV	3
Dielectric strength (IEC 664 and 664A) between main circuit and trip coil circuit	Test voltage	
	AC 4000 V (double insulation)	
Insulation resistance	>100 MΩ (DC 500 V)	
Vibration	8 g (57-500 Hz) ±0.61 mm (10-57 Hz) to IEC 68-2-6, test Fc 10 frequency cycles/axis	
Shock	30 g (11 ms) to IEC 68-2-27, test Ea	
Corrosion	96 hours at 5 % salt spray to IEC 68-2-11, test Ka	
Humidity	240 hours at 95 % RH to IEC 68-2-30, test Ca	
Mass	approx. 53 g (complete assembly)	
Release delay	t < 20 ms	
Duty cycle	1 % /10 sec. (20 to 100 ms pulse)	
Power consumption	approx. 200 W	

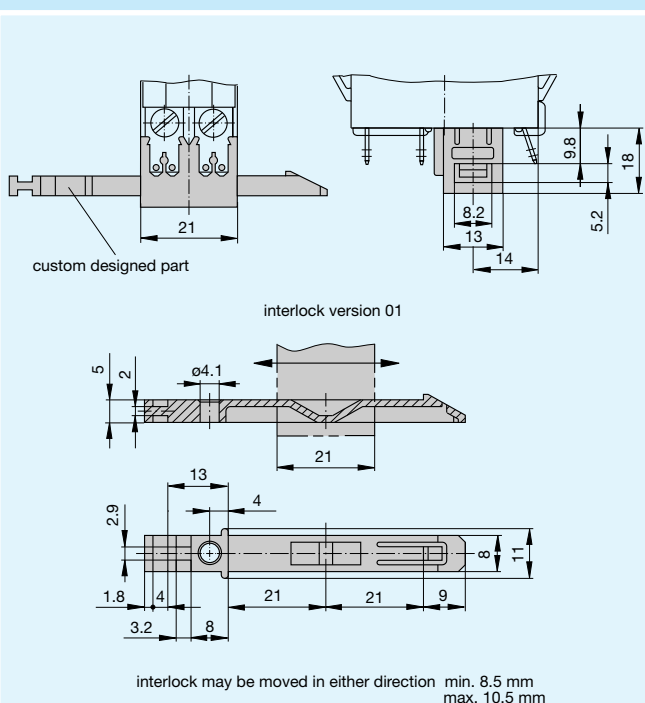
Description

Suitable for use with all type 3120 versions, this module provides a mechanical safety interlock which, according to the option specified, prevents the main switch/circuit breaker mechanism from being reset/switched on. The actuator is intended for use with interlock systems to ensure that machinery cannot be operated without covers and safety guards in place, for instance.

Typical applications

Mechanical monitoring of safety systems, e.g. for garden shredders

Dimensions



Ordering information

Type No.	
X3120	Module for type 3120
Function	
V	mechanical slide interlock module
Module operation	
0	3120 cannot be switched on without the interlock fitted
1	3120 can only be switched on without the interlock fitted
Interlock design	
00	without interlock
01	interlock version 01 (see dimension diagram)
Delivery condition of slide	
L	interlock supplied separately with the module
M	module factory-fitted with the slide in its centre position
O	module supplied without interlock
Operating direction of interlock	
0	without interlock, or interlock supplied separately
1	interlock operated from the side near terminals 11, 12k, 12i of the 3120-...
2	interlock operated from the side near terminals 21, 22k, 22i of the 3120-...
Assembly status	
L	module supplied separately
M	module mounted to the circuit breaker

X3120 - V 0 00 0 0 M ordering example

Approval (complete assembly with type 3120-F...)

Authority	Voltage rating
VDE	AC 250 V; DC 28 V