

Description

An extremely versatile range of rocker switch/thermal circuit breakers (S-type TO CBE to EN 60934 with trip free mechanism) 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. Illumination is optional and there is a range of colours and markings for the rocker.

Add on modules:

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

Approved to CBE standard EN 60934 (IEC 60934).

Meets the requirements regarding fire resistance of EN 60335-1 : 2007-02
Safety of household and similar electrical appliances.

Typical applications

Motors, transformers, solenoids, extra low voltage wiring systems, office machines, electro-medical equipment, power supplies, communications systems, medical equipment to EN 60601.

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	4	0.0435
0.2	24	4.5	0.0435
0.3	12	5	0.0325
0.4	5.30	6	0.0215
0.5	4.20	7	0.0165
0.6	2.90	8	0.0165
0.8	1.50	10	< 0.02
1	0.9	12	< 0.02
1.2	0.80	14	< 0.02
1.5	0.45	15	< 0.02
2	0.27	16	< 0.02
2.5	0.0785	18	< 0.02
3	0.0595	20	< 0.02
3.5	0.0565		

Illumination voltage/power consumption

operating voltage	power consumption		
	Y	R	G
12 V DC	5,2 mA	2 mA	1,4 mA
24 V DC	4,5 mA	2,2 mA	1,6 mA
115 V AC	2,8 mA	1,1 mA	1 mA
230 V AC	2,2 mA	0,9 mA	0,9 mA



Technical data

For further details please see chapter: Technical Information

Voltage rating		AC 240 V; DC 50 V (AC 415 V to special order) (UL: AC 250 V; DC 50 V)	
Current ratings		0.1...20 A (up to 30 A to special order, single pole only)	
Typical life		1-pole AC 240 V: 0.1...20 A 30,000 operations at 1 x I _N , inductive DC 50 V: 0.1...4 A 30,000 operations at 1 x I _N , inductive 4.5...16 A 30,000 operations at 1 x I _N , resistive DC 28 V: 0.1...20 A 30,000 operations at 1 x I _N , inductive 2-pole AC 415 V: 0.1...16 A 10,000 operations at 1 x I _N , inductive AC 240 V: 0.1...16 A 50,000 operations at 1 x I _N , inductive 17...20 A 30,000 operations at 1 x I _N , inductive DC 50 V: 0.1...16 A 50,000 operations at 1 x I _N , inductive 17...20 A 10,000 operations at 1 x I _N , inductive	
Ambient temperature		-30...+60 °C (-22...+140 °F)	
Insulation co-ordination (IEC 60664 and 60664 A)		rated impulse withstand voltage 2.5 kV reinforced insulation in operating area	pollution degree 2
Dielectric strength (IEC 60664 and 60664A) operating area between poles (2-pole)		test voltage AC 3,000 V AC 1,500 V	
Insulation resistance		> 100 MΩ (DC 500 V)	
Interrupting capacity I _{cn}		0.1...2 A 10 x I _N 2.5...20 A 250 A 2-pole, or 150 A 1-pole	
Interrupting capacity (UL 1077)			

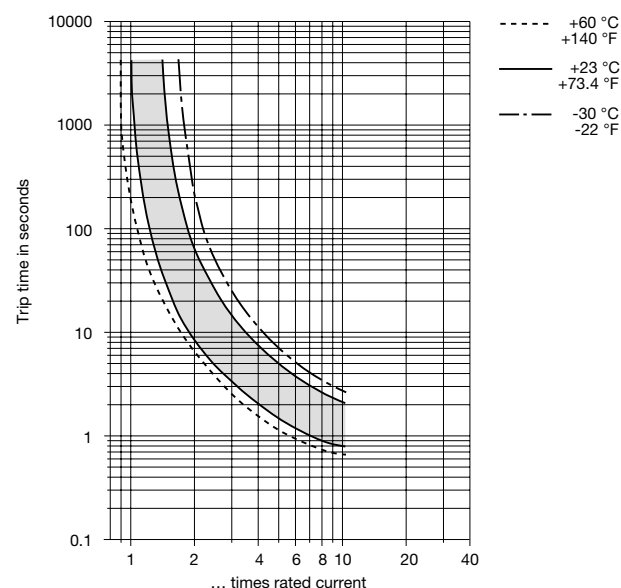
	I _N	U _N	I _{nc}
1, 2-pole	0.1...20 A	AC 250 V	5000 A
1, 2-pole	0.1...20 A	DC 50 V	1000 A

Degree of protection (IEC 60529/DIN 40050)	operating area IP40 (IP54 with water splash protection) 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 60068-2-78, test Cab
Mass	approx. 33 g (double pole) approx. 27 g (single pole)

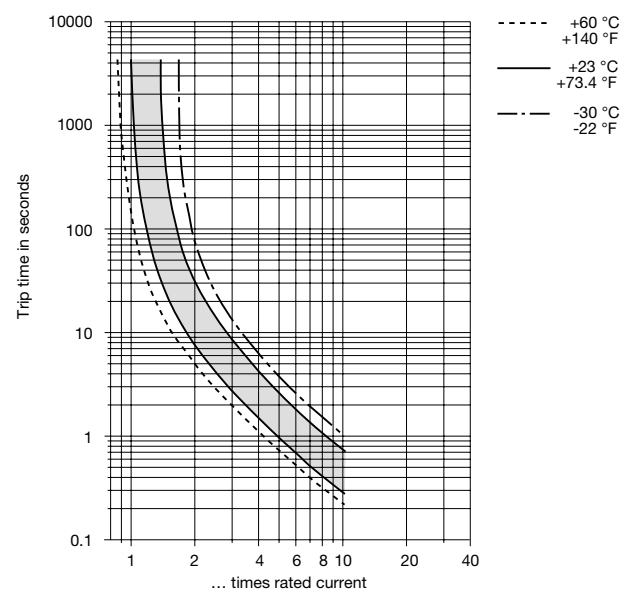
Typical time/current characteristics

single or double pole load

0.1...2 A



2.5...20 A



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 Technical information.

Ambient temperature	°F	-22	-4	+14	+32	+73.4	+104	+122	+140
temperature	°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

Approvals

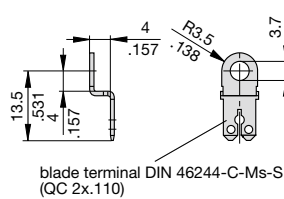
Authority	Standard	Rated voltage	Current ratings
VDE	IEC/EN 60934	3 AC 415 V AC 240 V DC 50 V DC 28 V	0.1 A...16 A (2-pole) 0.1 A...20 A 0.1 A...20 A (2-pole) 0.1 A...4 A (1-pole) 0.1 A...20 A
UL	UL 1077	AC 250 V DC 50 V AC 250 V	0.1 A...20 A 0.1 A...20 A 30 A (2 poles in parallel)
CSA	C22.2 No 235	AC 250 V DC 50 V AC 250 V	0.1 A...20 A 0.1 A...16 A 30 A (2 poles in parallel)
CQC	GB 17701	AC 240 V DC 50 V	0.1 A...20 A 0.1 A...20 A

Accessories

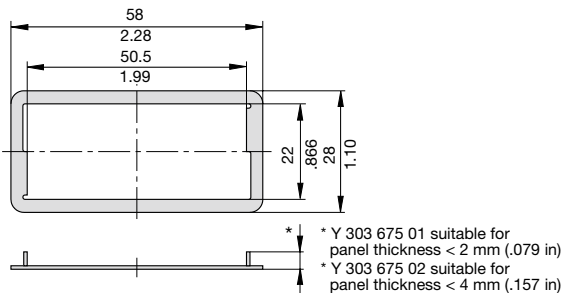
Insulated cover Y 303 068 01



Terminal adapter Y 303 862 01



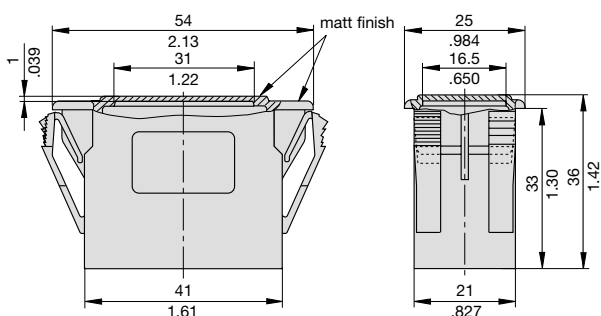
Spacer for 3120-F3... Y 303 675 01/02



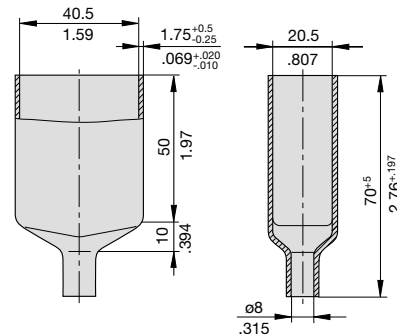
Spacer for 3120-F5... Y 303 676 01



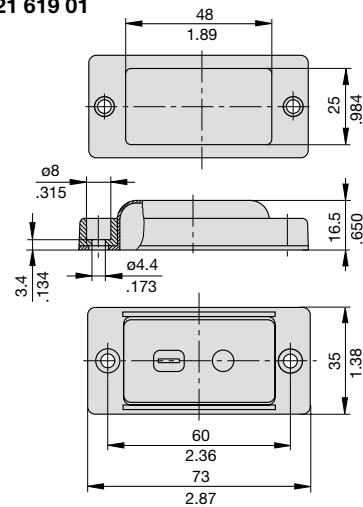
Blanking piece in -F3 frame Y 303 885 31



Rear terminal shroud black (IP64) Y 304 275 01



Water splash cover, transparent (IP66) for style -F5.. X 221 619 01



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.

Description

The appliance inlet module X3120 with circuit breaker type 3120-F5/-F7/-F8 combines three functions within a single component: A C20 appliance inlet, a rocker-actuated or push button switch and resettable overcurrent protection. Screw-type mounting from the front or from the rear.

Typical applications

Electrical medical apparatus, laboratory equipment, professional audio equipment and office machines.

Order numbering code

Type No.

X3120 Appliance inlet module for circuit breaker type 3120

Module

B appliance inlet C20

Version

04 screw-type mounting

Accessories

00 without

Version

00 not wired; mounting position 3120: ON position to connector

01 not wired; mounting position 3120: OFF position to connector (standard)

Assembly status

M module supplied with circuit breaker 3120 fitted

X3120-B 04 00 01 M ordering example

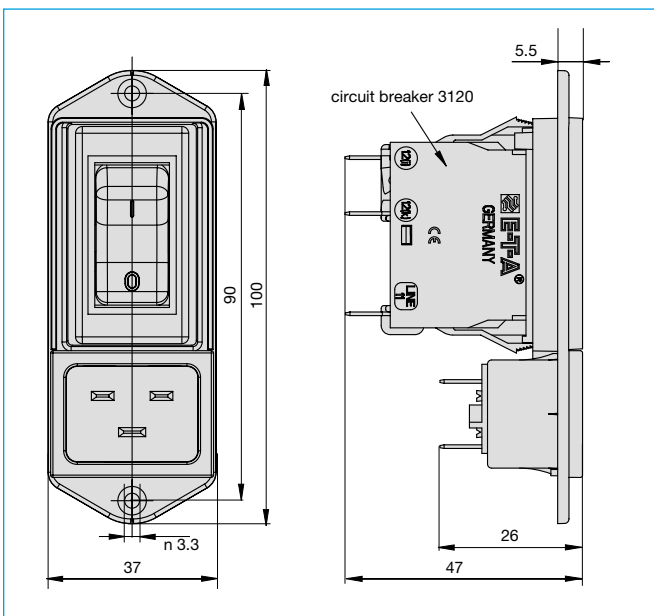
Approvals

ENEC, UL, CCC

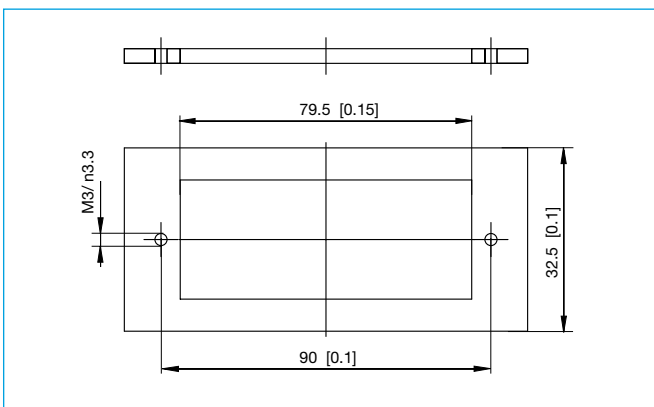
Technical Data

Rated voltage	AC 240 V
Current rating	16 A (IEC) 20 A (UL/CSA)
Ambient temperature	-25°C ...+ 70°C
Number of poles	L, N + earth
Protection class:	I
Mounting method:	screw-type mounting (front or rear)
Connection:	blade terminals DIN 46244 6.3mm x 0.8mm
Housing material:	thermoplastics, black UL94V-0
Appliance inlet:	C20 according to IEC/EN 60320-1, UL498
Mains switch:	Circuit breaker 3120-F5/-F7/-F8 (3120-F8 with push button actuation: technical data upon request)

Dimensions



Cut-out dimensions





**Стандарт
Электрон
Связь**

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