Description

Single pole thermal circuit breaker with press-to-reset, tease-free, trip-free, snap action mechanism. Type 2-5000 is available with optional manual release (-H), type 2-5700 can be supplied as a push-push switch/circuit breaker (R-type TO CBE to EN 60934 in press-to-reset configuration; M-type when fitted with manual release -H; S-type with push-push operation). Fitted with flange or threadneck for panel mounting. Options include an additional unprotected circuit tap (-A3). Approved to CBE standard EN 60934 (IEC 60934).

Typical applications

Motors, transformers, solenoids, battery chargers, power supplies, appliances, machinery, extra low voltage systems.



2-5000-...



2-5700-...

Ordering information

Type No.

2-5000 flange mounting

2-5700 threadneck panel mounting (hardware bulk shipped)

Threadneck design – type 2-5700 only

iG1 moulded threadneck 3/8“-27UNS-2A

iG2 moulded threadneck M12x1

Terminal design

P10 blade terminals 6.3-0.8 mm (QC .250)

K10 screw terminals M4x6

Manual release (optional)

H manual release facility (type 2-5000 only)

DD push to release/push to reset (type 2-5700 only)

Current ratings

0.05...25 A

2-5700 - iG1 - P10 - DD - 8 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.

Preferred types

NEW

Preferred types	Standard current ratings (A)												
	1	2	3	4	5	6	8	10	12	15	16	20	25
2-5700-IG1-P10-	x	x	x	x	x	x	x	x	x	x	x	x	x
2-5700-IG1-P10-DD			x	x	x	x	x	x	x	x	x	x	x
2-5700-IG2-P10-			x	x	x	x	x	x	x	x	x	x	x
2-5700-IG2-P10-DD			x	x	x	x	x	x	x	x	x	x	x

Approvals

Authority	Voltage ratings	Current ratings
VDE (EN 60934)	AC 250 V; DC 28 V	0.05...25 A
CSA/ UL	AC 250 V; DC 50 V	0.05...20 A
SEV	AC 250 V; DC 28 V	0.05...25 A
CCC	AC 250 V; DC 28 V	0.05...25 A

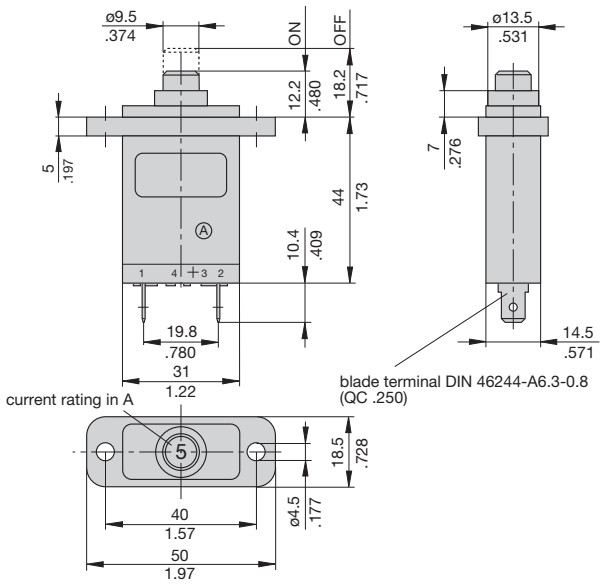
Technical data

For further details please see chapter: Technical Information

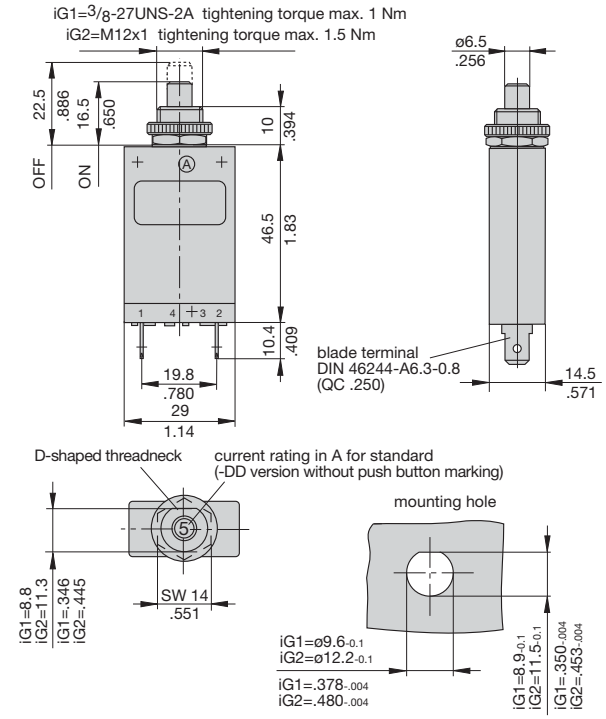
Voltage rating	AC 250 V; DC 28 V (UL: AC 250 V; DC 50 V)	
Current rating range	0.05...25 A	
Typical life	AC 250 V / DC 28 V:	
0.05...16 A	5,000 operations at 2 x I_N, inductive	
17...25 A	5,000 operations at 2 x I_N, resistive	
Ambient temperature	-20...+60 °C (-4...+140 °F)	
Insulation co-ordination (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	test voltage AC 3,000 V	
Insulation resistance	> 100 MΩ (DC 500 V)	
Interrupting capacity I_{cn}	0.05...2.5 A 3...5 A 6...12 A 13...25 A	8 x I_N 20 x I_N 200 A (higher interrupting capacity available to special order) 300 A
Interrupting capacity (UL 1077)	I_N 0.05...20 A 0.05...25 A (higher values upon request)	U_N AC 250 V 2,000 A DC 50 V 2,500 A
Degree of protection (IEC 60529/DIN 40050)	operating area IP40 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	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 60068-2-78, test Cab	
Mass	approx. 29 g	

Dimensions

2-5000-P10

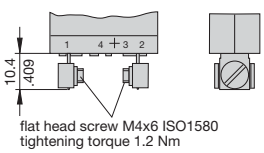


2-5700-P10



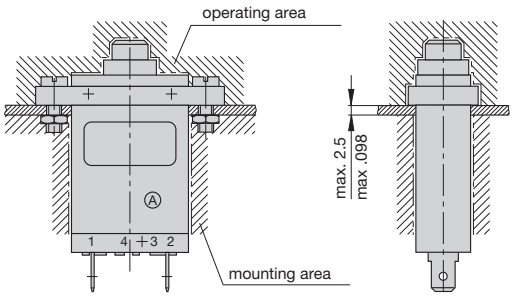
Terminal design

-K10

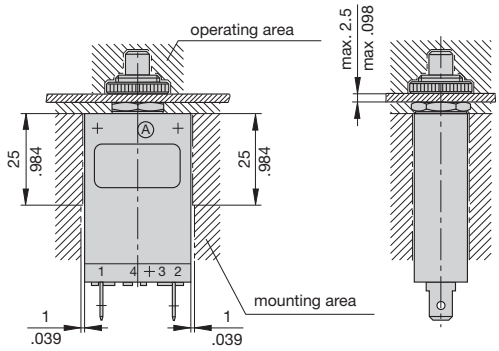


Installation drawings

2-5000-P10



2-5700-P10

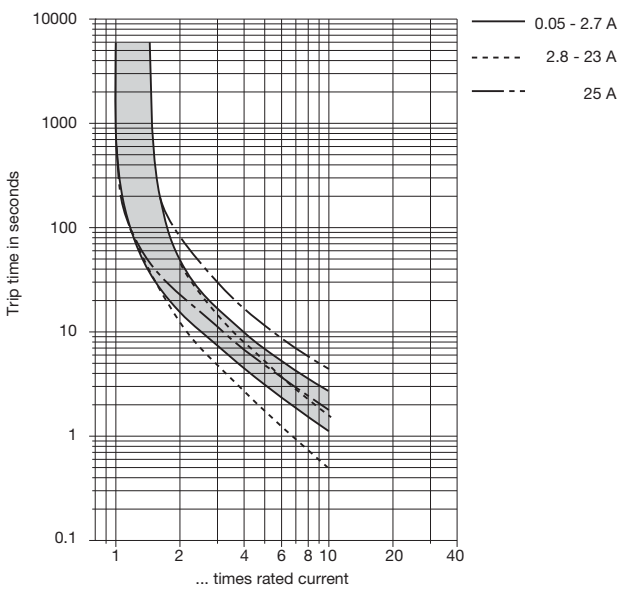


Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance (Ω)	Current rating (A)	Internal resistance (Ω)
0.05	280	3	0.1
0.08	100	3.5	0.06
0.1	110	4	0.06
0.2	29	4.5	0.05
0.3	14	5	0.05
0.4	7	6	0.02
0.5	4.9	7	0.02
0.6	3.4	8	0.02
0.7	2.5	10	< 0.02
0.8	1.8	12	< 0.02
1	1.2	13	< 0.02
1.2	0.8	15	< 0.02
1.5	0.6	16	< 0.02
1.8	0.4	20	< 0.02
2	0.3	22	< 0.02
2.5	0.2	25	< 0.02

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

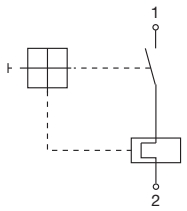
Typical time/current characteristics at +23 °C/+73.4 °F



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

Internal connection diagrams

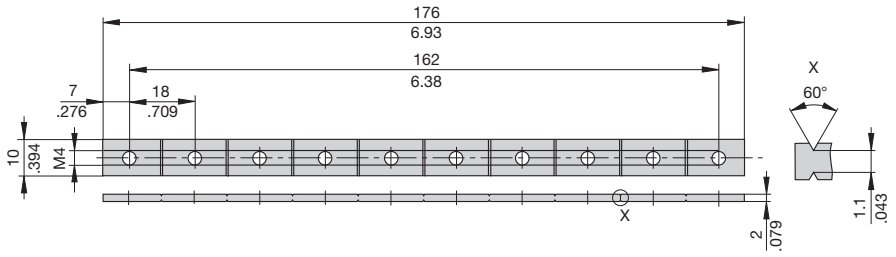


2

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

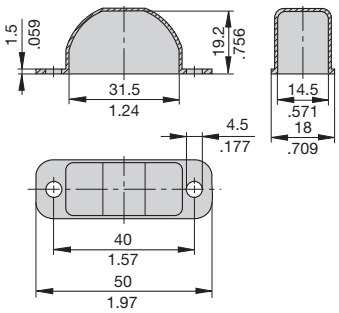
Accessories for types 2-5000 and 2-5700 with screw terminals -K10

Bus bar
Y 303 563 01

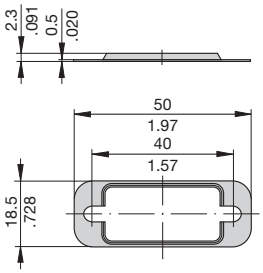


Accessories for type 2-5000-...

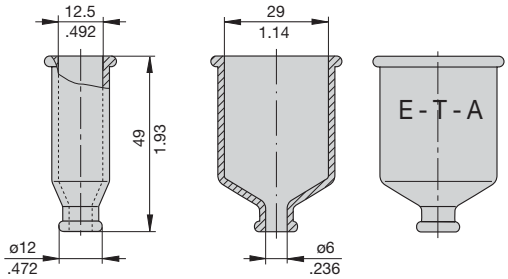
Water splash cover, transparent for push button (IP64)
Y 300 728 01



Fixing plate
Y 301 056 02



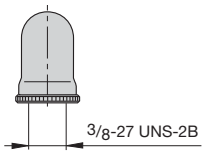
Rear terminal shroud, transparent (IP64)
Y 300 476 01



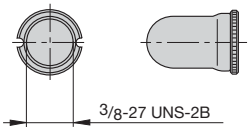
Accessories for type 2-5700-...

With 3/8" threadneck (-iG1)

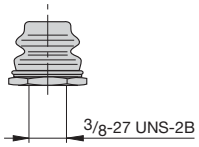
Water splash cover, transparent Y 300 538 01 and knurled nut Y 300 628 01
X 200 799 01 (IP64)



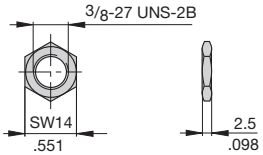
Water splash cover, transparent with special knurled nut
X 200 798 02 (IP64)



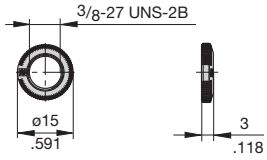
Hex nut with splash cover black without O ring
X 210 739 01 (IP64)
transparent splash cover
X 201 296 03 (IP64)



Separate hardware
Hex nut
Y 300 192 01



Knurled nut
Y 307 117 02

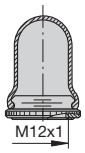


With M12 threadneck (-iG2)

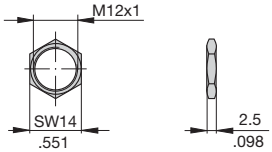
Hex nut with splash cover, black
X 201 296 01 without O ring (IP64)
X 200 801 03 with O ring
(IP66 and IP67)
Hex nut with splash cover, transparent
X 200 801 08 with O ring
(IP66 and IP67)



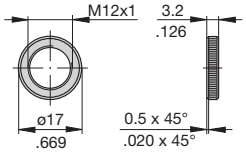
Water splash cover, transparent with knurled nut and O ring
X 210 663 01 (IP64)



Hex nut
Y 300 116 02



Knurled nut
Y 302 065 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.

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Живое партнерство

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