

Description

Bimetal operated single pole motor protection control with automatic reset actuation, small physical size, reliable snap-action mechanism.

Caution: In specifying this product, care should be taken to ensure that automatic motor re-start does not represent a safety hazard.

Typical applications

Motors, transformers, extra low voltage wiring.

Ordering information

Type No.	
2-6500	surface type with flange
Terminal design	
P10	blade terminals 6.3-0.8 (QC .250)
Shunt terminal (optional)	
A3	blade terminals or solder terminals; max. load 5 A
Current ratings	
0.1...10 A	
2-6500 - P10 - ... - 6 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)
0.1	140	2	0.47
0.2	47.5	2.5	0.33
0.3	20.5	3	0.212
0.4	11.4	3.5	0.155
0.5	7.25	4	0.107
0.6	5.35	4.5	0.095
0.7	3.8	5	0.072
0.8	2.95	6	0.054
1	1.92	7	0.032
1.2	1.32	8	0.02
1.5	0.85	9	< 0.02
1.8	0.59	10	< 0.02

Approvals

Authority	Voltage rating	Current rating
UL	AC 250 V; DC 28 V	0.1...10 A



2-6500-...

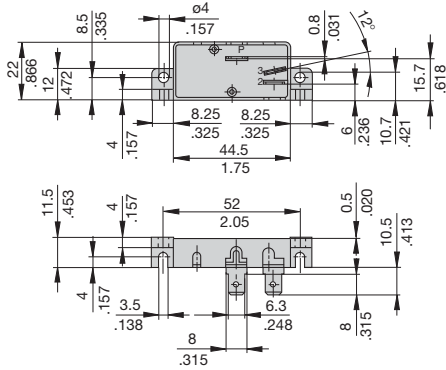
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Technical data

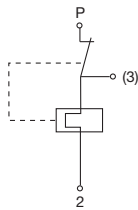
Voltage rating	AC 250 V (50/60 Hz); DC 28 V
Current ratings	0.1...10 A (up to 15 A upon request)
Typical life	100,000 operations at $2 \times I_N$ Protection is ensured for 18 days of continuous locked rotor condition with $I_k \leq 6 \times I_N$, max. 30 A (unsupervised duty)
Ambient temperature	-10...+60 °C (-10...+140 °F)
Insulation co-ordination (IEC 60664 and 60664 A)	rated impulse withstand voltage 2.5 kV pollution degree 3
Dielectric strength (IEC 60664 and 60664A)	test voltage AC 2,000 V
Insulation resistance	> 100 M Ω (DC 500 V)
Interrupting capacity	$8 \times I_N$ (co-co-co)
Reset time at 23 °C	≥ 30 sec ≤ 70 sec
Degree of protection (IEC 60529/DIN 40050)	housing IP30 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	15 g (11 ms) test to IEC 60068-2-27, test Ea
Corrosion	48 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. 20 g

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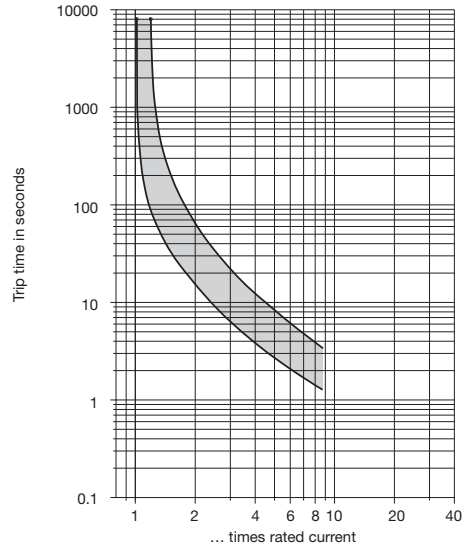
Dimensions



Internal connection diagram



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 9 – Technical information.

Ambient temperature °F	+14	+32	+50	+73.4	+86.1	+104	+122	+140
°C	-10	0	+10	+23	+30	+40	+50	+60
Derating factor	0.84	0.92	1	1	1	1.08	1.16	1.24

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

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.