

Description

Single pole high performance thermal circuit breaker, with push-to-reset tease free, trip-free snap action mechanism (R-type TO CBE to EN 60934). Designed for threadneck panel mounting and for applications with a high fault current switching requirement. Approved to CBE standard EN 60934 (IEC 60934).

Typical applications

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

Ordering information

Type No.	
4130	single pole thermal circuit breaker
Mounting	
G	threadneck panel mounting
Threadneck design	
2	M 12x1, knurled nut (bulk shipped)
4	M 12x1, hex nut and knurled nut (bulk shipped)
Number of poles	
1	single pole, thermally protected
Actuator configuration	
1	black push button
Terminal design	
K4	terminal M6x8 screw and washer bulk shipped
Characteristic curve	
M1	medium delay
Current ratings	
20... 70 A	
4130 - G 2 1 1 - K4 M1 - 20 A	ordering example

Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance (Ω)	Current rating (A)	Internal resistance (Ω)
20	< 0.02	40	< 0.01
25	< 0.02	50	< 0.01
30	< 0.02	60	< 0.01
35	< 0.02	70	< 0.01

Approvals

Authority	Voltage ratings	Current ratings
VDE (EN 60934)	AC 240 V; DC 50 V	20...70 A
UL	AC 240 V; DC 50 V	20...70 A

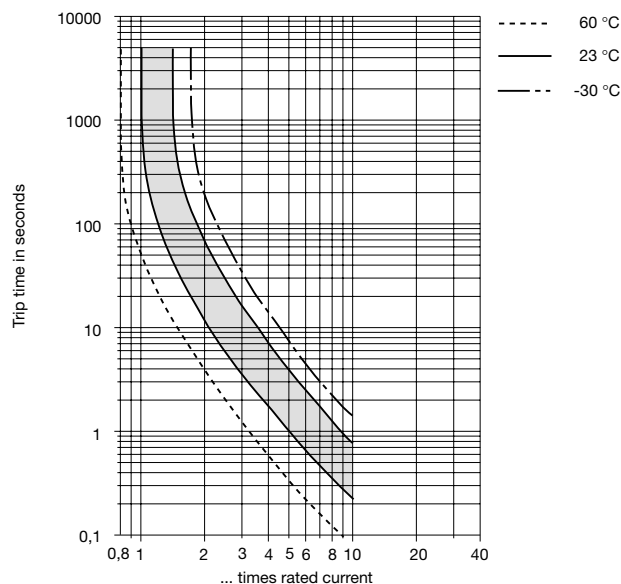


4130-...

Technical data

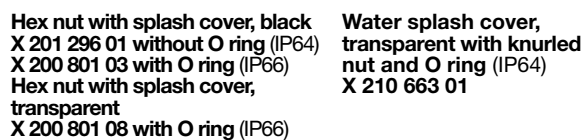
Voltage rating	AC 240 V; DC 50 V		
Current rating range	20... 70 A		
Typical life	300 operations at 2 x I _N (DC 50 V) 500 operations at 2 x I _N (DC 28 V)		
Ambient temperature	-30...+60 °C (-22...+140 °F)		
Insulation co-ordination (IEC 60664)	rated impulse withstand voltage 2.5 kV (reinforced insulation in the mounting area)	pollution degree 2	
Dielectric strength operating area	test voltage AC 3,000 V		
Insulation resistance	> 100 MΩ (DC 500 V)		
Interrupting capacity I _{cn}	800 A		
Interrupting capacity (UL 1077)	I _N 20...70 A 20...60 A 70 A 20...50 A 60...70 A	U _N AC 240 V AC 120 V AC 120 V DC 50 V DC 50 V	1,000 A 3,500 A 2,000 A 3,500 A 2,000 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 60068-27, 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. 55 g		

Typical time/current characteristics

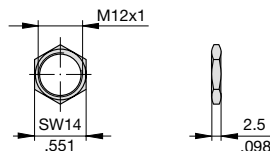


Ambient temperature °F	-22	-4	+14	+32	+73.4	+104	+122	+140
°C	-30	-20	-10	0	+23	+40	+50	+60
Derating factor	0.68	0.76	0.84	0.92	1	1.08	1.16	1.24

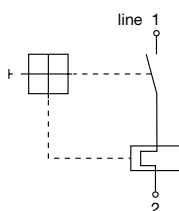
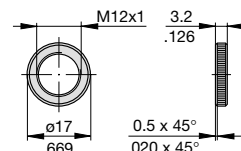
Accessories



Separate hardware
Hex nut Y 300 116 02



**Knurled nut
Y 302 065 01**



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.