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ভিছিন Thermal Overcurrent Circuit Breaker 1140-...

Description

Miniaturised single pole thermal circuit breaker with push-to-reset tease-free, trip-free, snap action mechanism (R-type TO CBE to EN 60934). Available in versions for panel mounting, snap-in or threadneck, or as an integral type. For lower current ratings see types 104, 105, 106. Approved to CBE standard EN 60934 (IEC 60934).

Typical applications

Motors, transformers, solenoids, hand-held machines and appliances.

Ordering information

Type N	lo.								
1140	sing	gle pole thermal circuit breaker							
	Мо	unting							
	E2 integral mounting								
F1 snap-in panel mounting									
G1 threadneck panel mounting 3/8-27UNS with hex nut									
		knurled nut (hardware bulk shipped with 5 pcs plus)							
	-	Number of poles							
		1 1-pole protected							
		Actuator style							
		1 black push button							
		Terminal design							
		P1 blade terminals A6.3-0.8 (QC .250)							
		Characteristic curve							
		M1 medium delaye							
		Current ratings							
		3.516 A							
1140	- F1	1 1 - P1 M1 - 10 A = ordering example							

Preferred types

Preferred types	Standard current ratings (A)												
	4	5	6	7	8	9	10	11	12	13	14	15	16
1140-G111-P1M1-	х	х	х	х	х	х	х	х	х	х	х	х	х

Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance (Ω)	Current rating (A)	Internal resistance (Ω)		
3.5	0.06	10	< 0.02		
4	4 0.04		< 0.02		
5	0.03	12	< 0.02		
6	0.02	13	< 0.02		
7	< 0.02	14	< 0.02		
8	< 0.02	15	< 0.02		
9	< 0.02	16	< 0.02		



Technical data

For further d	etails please	see chapte	er: Technica	I Information				
Voltage rating)	AC 240 V; DC 48 V (UL: AC 250 V; DC 50 V)						
Current rating	js	3.516 A						
Typical life AC + DC	3.58 A 916 A	200 operations at 2 x I _N , inductive 100 operations at 2 x I _N , inductive						
Ambient temp	oerature	-20+60 °	C (-4+140	°F) T 60				
Insulation co- (IEC 60664 ar		rated impulse pollution withstand voltage degree 2.5 kV 2 reinforced insulation in operating area						
Dielectric stre (IEC 60664 ar operating a	nd 60664A)	test voltage AC 3,000 V						
Insulation res	istance	> 100 MΩ (DC 500 V)						
Interrupting c	apacity I _{cn}	3.58 A 916 A	8 x I _N 120 A					
Interrupting c (UL 10777)	apacity	I _N 3.516 A 3.516 A	U _N DC 50 V AC 250 V	2,000 A 2,000 A				
Degree of pro (IEC 60529/D		operating area IP40 terminal area IP00						
Vibration		10 g (57-500 Hz) \pm 0.76 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. 10 g						

Approvals

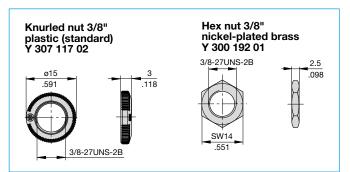
Authority	Standard	Rated voltage	Current ratings		
VDE	IEC/EN 60934	AC 240 V DC 48 V	3.5 A16 A 3.5 A16 A		
UL	UL 1077	AC 250 V DC 50 V	3.5 A16 A 3.5 A16 A		
CSA	C22.2 No 235	AC 250 V DC 50 V	3.5 A15 A 3.5 A16 A		

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.

Dimensions

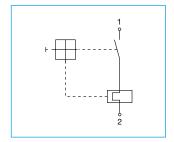
1140-E211-P1M1 O blade terminal DIN 46244-A6.3-0.8 (QC .250) 1140-F111-P1M1 blade terminal DIN 46244-A6.3-0.8 (QC .250) .445+.012 .984 mm inch 0.8 .031 1.0 .039 1.5 .059 22.1 .870 2-3 .079-.118 22.2 .874 а 1140-G111-P1M1 tightening torque max. 0.8 Nm 3/8-27 UNS-2A ø4.2 .165 blade terminal DIN 46244-A6.3-0.8 (QC .250) mounting hole 000

Accessory



Internal connection diagram

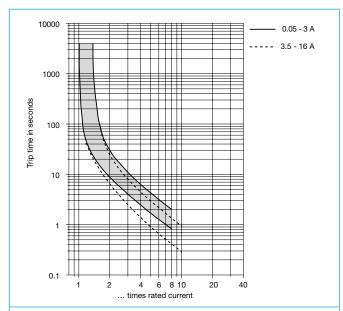
© EিডিA Thermal Overcurrent Circuit Breaker 1140-...



Accessory

Water splash cover/knurled nut assembly, transparent X 201 285 01 (IP64)

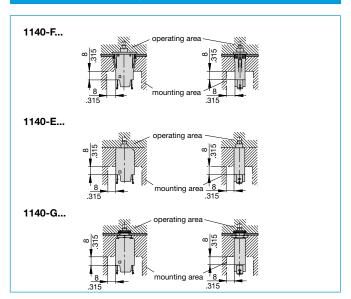
Typical time/current characteristics at +23 °C/+73.4 °F



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		+14 -10	+32 0	+73.4 +23	+104 +40	+122 +50	
Derating factor	0.76	0.84	0.92	1	1.08	1.16	1.24

Installation drawings



This is a metric design and millimeter dimensions take precedence (mm) inch