

Description

E-T-A's 91H Miniature Circuit Breakers (MCB) offer supplemental and short circuit protection. The 91H has two levels of interruption capacity, 6 kAIC and 10 kAIC, at 480 Y/277. These circuit breakers provide application flexibility with their small size and modularity. They are DIN rail mounted in one-, two- and three-pole construction. Depending on the line, 91H MCBs are Component Recognized under UL1077 and are CE marked.

Typical Applications

Power supplies/UPS, PLC I/O points, lighting circuits, solenoids, relay/contactors coils, appliances, control circuits and motor circuits.

Ordering Information

Current Rating	Single Pole	Double Pole	Triple Pole
0.5 A	91H12005-0.5A	91H22005-0.5A	91H32005-0.5A
1 A	91H1201-1A	91H2201-1A	91H3201-1A
2 A	91H1202-2A	91H2202-2A	91H3202-2A
3 A	91H1203-3A	91H2203-3A	91H3203-3A
4 A	91H1204-4A	91H2204-4A	91H3204-4A
5 A	91H1205-5A	91H2205-5A	91H3205-5A
6 A	91H1206-6A	91H2206-6A	91H3206-6A
10 A	91H1210-10A	91H2210-10A	91H3210-10A
13 A	91H1213-13A	91H2213-13A	91H3213-13A
15 A	91H1215-15A	91H2215-15A	91H3215-15A
16 A	91H1216-16A	91H2216-16A	91H3216-16A
20 A	91H1220-20A	91H2220-20A	91H3220-20A
25 A	91H1225-25A	91H2225-25A	91H3225-25A
30 A	91H1230-30A	91H2230-30A	91H3230-30A
32 A	91H1232-32A	91H2232-32A	91H3232-32A
40 A	91H1240-40A	91H2240-40A	91H3240-40A
50 A	91H1250-50A	91H2250-50A	91H3250-50A
60 A	91H1260-60A	91H2260-60A	91H3260-60A
63 A	91H1263-63A	91H2263-63A	91H3263-63A

Approvals

Test authority	Voltage ratings	Current ratings
UL 1077	AC 277V; 480/277V	0.5... 63A
EN60947-2	AC 415/240V DC 110/50V	0.5... 63A 0.5... 63A
CSA 222	AC 480/277V	0.5...63A

Accessories

Accessories	Part no.
SPDT (auxiliary contact)	676034
Padlock Bracket	624929

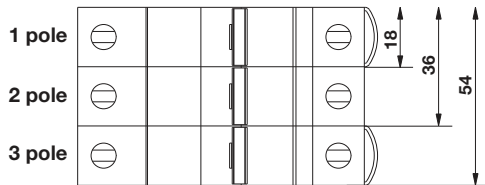
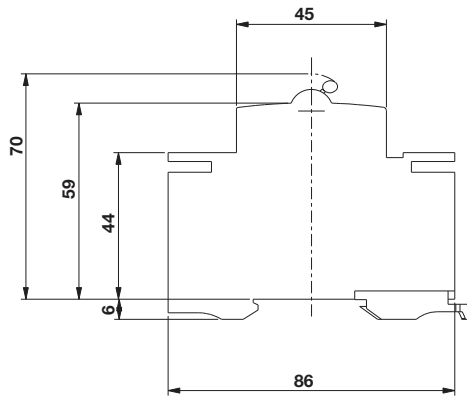


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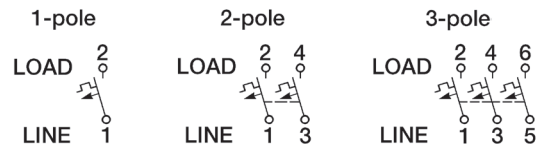
Technical Data

Voltage rating	AC 415 V; AV 240 V; DC 48/110 V	
Current rating range	0.5... 63A	
Auxiliary contact rating	Voltage	Current
	AC 220/240	5A
	AC 227	3A
	AC 24 V	4A
	AC 60 V	1A
	DC 220 V	0.4A
Endurance - electrical at Un, In	10000	
Endurance - mechanical	20000	
Ambient temperature	-25... +55° C (-13... +131° F)	
Storage temperature	-55... +55° C (-67... +131° F)	
Insulation co-ordination	2.5 kV	
Insulation resistance	> 10000 MΩ	
Interrupting capacity	Rupture capacity	Voltage
	10,000A (UL)	277 VAC/50 VDC
	2,000A (UL)	347/600 VAC
	6,000 (UL)	50 VDC (1) pole
	6,000 (UL)	110 VDC (2) pole
Protection class	operating area IP20	
	terminal area IP40	
Vibration (sinusoidal)	± 0.38 mm (10-57 Hz), 3g (10-55 Hz)	
Shock	20 g (10 ms)	
Humidity	240 hrs in 95% RH	
	test to IEC 60068-2-3, test Cab	
Housing material	molded material	
Mounting	on symmetrical rail to EN50022-35x7.5	
Mounting dimension	18 mm x 86 mm x 70 mm	
Torque	4.5 Nm	
Terminal capacity	min/max	
Rigid cable - top	1/35 mm ²	
Flexible cable - top*	0.75/25 mm ²	
Rigid cable - bottom	1/35 mm ²	
Flexible cable - bottom*	0.75/25 mm ²	
(*Flexible cable 0.75/1/1.5 mm ² with cable lug)		

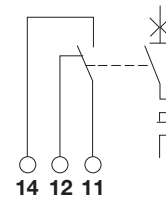
Dimensions



Internal Wiring Diagram



Internal Auxiliary Wiring Diagram



Typical time/current characteristics

