



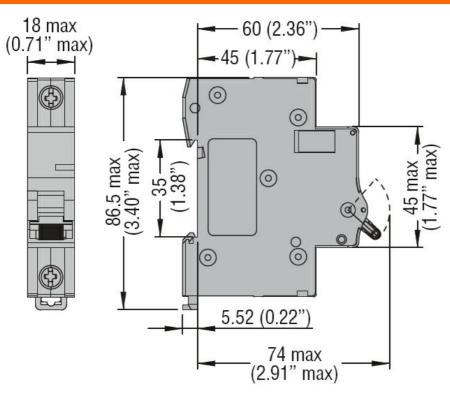
Product designation Formation (Note) Formation (Note) Formation (Note) Formation (Note) Possible (Note) P				
Product type designation	Draduat designation			Miniature circuit
Number of DIN modules 1 P Number of DIN modules 1 EC / Ut.1077 Compliance 1EC / Ut.1077 Electrical features 3 Rated insulation voltage UII EC/EN V 440 Rated insulation voltage Uimp KV 4 Rated operational voltage DC VDC 80 Rated operational voltage DC VDC 80 Rated frequency Hz 50/60 Rated Grequency Hz 50/60 Rated Guerrational Voltage DC Rx 10000 Rated Guerrational Voltage DC Rx 10000 Rated Grequency Hz 50/60 Rated Guerrational Voltage DC Rx 10000 Power dissipation per generature min "C <td< td=""><td>Product designation</td><td></td><td></td><td>breaker (MCB)</td></td<>	Product designation			breaker (MCB)
Number of DIN modules	Product type designation			P1 MB
Compliance IEC / UL1077 Electrical features IEC / UL1077 Electrical features V	Number of poles			1P
Electrical features V 440 Rated insulation voltage Uir IEC/EN kV 4 Rated operational voltage AC (IEC) VAC 230 Rated operational voltage DC VDC 80 Rated operational voltage DC Hz 50/60 Rated current (In) A 20 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.56 Ambient conditions W 1.56 Operating temperature min °C -40 Max altitude m 2000 Mechanical features m 2000 Operating position normal Vertical plan Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 2 Conductor section min nm 1 AWG/Kcmil min nm <td< td=""><td>Number of DIN modules</td><td></td><td></td><td>1</td></td<>	Number of DIN modules			1
Rated insulation voltage Ui IEC/EN	Compliance			IEC / UL1077
Rated impulse withstand voltage Uimp kV 4 Rated operational voltage AC (IEC) VAC 230 Rated operational voltage DC VDC 80 Rated frequency Hz 50/60 Rated current (In) A 20 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.56 Ambient conditions min °C -40 Operating temperature min °C -40 Max °C -40 max °C +70 Storage temperature min °C -40 max °C +80 Max attitude more max vertical plan solution 1 Vertical plan 1	Electrical features			
Rated operational voltage AC (IEC) VAC 230 Rated operational voltage DC VDC 80 Rated frequency Hz 50/60 Rated current (In) A 20 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.56 Ambient conditions W 1.56 Operating temperature min °C -40 Max altitude m 2000 Mechanical features min vertical plan Operating position normal Vertical plan Fixing normal vertical plan Tightening torque for terminals min nm 1.8 max nm 2 2 Conductor section min nm 2 IEC min max nm 2 AWG/Kcmil min nm 2 2 AWG/Kc	Rated insulation voltage Ui IEC/EN		V	440
Rated operational voltage DC VDC 80 Rated frequency Hz 50/60 Rated current (In) A 20 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.56 Ambient conditions W 1.56 Operating temperature min °C -40 Max °C +70 Storage temperature min °C -40 Max altitude max °C +80 Mechanical features Operating position Vertical plan Fixing 35mm DIN rail Tightening torque for terminals Fixing min Nm 1.8 max Nm 2 1.6 min nbin 16 1.7 Terminals tool min min 17.7 Terminals tool min min min min min <	Rated impulse withstand voltage Uimp		kV	4
Rated frequency Hz 50/60 Rated current (In) A 20 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.56 Ambient conditions To -40 Operating temperature min *C -40 Storage temperature min *C -40 Max altitude m 2000 Mechanical features min 2000 Operating position normal Vertical plan Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 min 16 remain lbin 17.7	Rated operational voltage AC (IEC)		VAC	230
Rated current (in) A 20 Tripping curve C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.56 Ambient conditions Operating temperature min °C -40 Max normal "max	Rated operational voltage DC		VDC	80
Tripping curve C Short circuit rating (IEC) kA 10 Electrical life cycles 100000 Power dissipation per pole max w 1.56 Ambient conditions min °C -40 Operating temperature min °C -40 Max a cc +80 max °C -40 Max altitude m 2000 2000 Mechanical features normal Vertical plan Fixing 35mm DIN rail 11 Fixing min Nm 1 2 11 11 12	Rated frequency		Hz	50/60
Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.56 Ambient conditions Operating temperature min °C -40 max °C +70 Storage temperature min °C -40 Max altitude m 2000 Mechanical features Operating position normal Vertical plan Fixing Tightening torque for terminals min Nm 1.8 max Nm 2 min lbin 16 max min 17.7 Terminals tool EC Conductor section IEC Max min mm 1 AWG/Kcmil min mm 14 max mm 6 Mechanical life cycles 20000	Rated current (In)		Α	
Electrical life	Tripping curve			С
Power dissipation per pole max	Short circuit rating (IEC)		kA	10
Ambient conditions	Electrical life		cycles	10000
Operating temperature min max °C valo colspan="4">-40 col	Power dissipation per pole max		W	1.56
Min C -40	Ambient conditions			
Storage temperature Storage temperature min °C -40 max °C +80 Max altitude m 2000 Mechanical features Operating position Fixing normal Vertical plan Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 min lbin 15.7 Terminals tool p2 2 Conductor section Pz 2 Conductor section min mm 1 AWG/Kcmil min mm 35 AWG/Kcmil min min mm 14 max 6 6 Mechanical life cycles 20000	Operating temperature			
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Max altitude min max °C +80 Max altitude m 2000 Mechanical features Operating position Fixing Tormal Tightening torque for terminals min normal Nm 2 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 min 10 lbin 16 max Nm 2 min 17.7 Terminals tool Pz 2 Conductor section IEC Min mm² 1 mm² 1 max mm² 35 AWG/Kcmil min min 14 max 6 Mechanical life cycles 20000 Weight g 115		max	°C	+70
Max altitude max °C +80 Mechanical features Operating position normal Vertical plan Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 min lbin 16 max lbin 17.7 Terminals tool Pz 2 Conductor section IEC Min mm 1 AWG/Kcmil min mm 14 min min 14 max 6 Mechanical life cycles 20000 Weight g 115	Storage temperature			
Max altitude m 2000 Mechanical features Operating position Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 min Nm 2 Terminals tool Pz 2 Conductor section IEC min min min min 1 min 1 4 AWG/Kcmil min 14 min 14 min 14 min 14 min 14 min 14 14 14 14 15 Mechanical life cycles 20000 Weight 115		min	°C	-40
Mechanical features Operating position Fixing 35mm DIN rail Tightening torque for terminals min Nm Nm 1.8 max Nm 2 min lbin 16 max lbin 17.7 Terminals tool Pz 2 Conductor section IEC min mm² 1 nm² 1 nm² 35 AWG/Kcmil min mm² 14 max 6 Mechanical life cycles 20000 Weight g 115		max	°C	+80
Operating position Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 min lbin 16 max lbin 17.7 Terminals tool P2 2 Conductor section IEC min mm² 1 AWG/Kcmil min mm² 35 AWG/Kcmil min mm² 14 Mechanical life cycles 20000 Weight g 115	Max altitude		m	2000
Fixing Journals Tightening torque for terminals min Nm 1.8 max Nm 2 min Ibin 16 max Ibin 17.7 Terminals tool Pz 2 Conductor section IEC min mm² 1 AWG/Kcmil min mm² 35 AWG/Kcmil min 14 max 6 Mechanical life cycles 20000 Weight g 115	Mechanical features			
Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 min lbin 16 max lbin 17.7 Terminals tool Pz 2 Conductor section Pz 2 IEC min mm² nm² 1 max mm² 35 AWG/Kcmil min max min 14 max 6 Mechanical life cycles 20000 Weight g 115	Operating position			
Tightening torque for terminals		normal		
Mechanical life Min Nm 1.8 max Nm 2 min lbin 16 max lbin 17.7	Fixing			35mm DIN rail
Mechanical life Max Nm 2 min lbin 16 max lbin 17.7	Tightening torque for terminals			
Mechanical life min max lbin 16 max lbin 17.7		min		
Terminals tool		max	Nm	2
Terminals tool		min		. •
Conductor section IEC		max	lbin	
IEC				Pz 2
Mechanical life min mx mm² mm² mm² mm² 35 14 Mechanical life cycles 20000 Weight g 115				
AWG/Kcmil max mm² 35 min max 14 6 Mechanical life cycles 20000 Weight g 115	IEC			
AWG/Kcmil min max 14 max 6 Mechanical life cycles 20000 Weight g 115		min		
min max 14 Mechanical life cycles 20000 Weight g 115		max	mm²	35
Mechanical life max 6 Weight cycles 20000 g 115	AWG/Kcmil			
Mechanical lifecycles20000Weightg115				
Weight g 115		max		
·			cycles	
Frontal IP degree IP20			g	
	Frontal IP degree			IP20

ENERGY AND AUTOMATION

Pollution degree

2

Dimensions



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n°235. UR "UL Recognized" per Canada e USA.

IEC/EN 60898-1

IEC/EN 60947-2

UL 1077

Certifications

cURus

EAC

TÜV-Rheinland

ETIM classification

ETIM 8.0

EC000042 -Miniature circuit breaker (MCB)