



Product designation Froduct type designation Power of DIA Michael Section of Part 19 (19 (19 (19 (19 (19 (19 (19 (19 (19				
Product type designation	Draduat designation			Miniature circuit
Number of poles 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Product designation			breaker (MCB)
Number of DIN modules 2 Compliance IEC / UL1077 Electrical features V 440 Rated insulation voltage UI IEC/EN VX 440 Rated inpulse withstand voltage UImp kV 4 Rated operational voltage DC VDC 80 Rated correctional voltage DC VDC 80 Rated frequency Lb 5060 Rated frequency Lb 1000 Rated current (In) A 1 Electrical life vA 1 Short circuit rating (IEC) kA 1 Electrical life vA 1.07 Power dissipation per pole max w 1.07 Ambient conditions w 1.07 Operating temperature min °C -40 Max altitude m 2000 Mechanical features m 2000 Operating position m 2000 Fixing m 1.8 1.8 Fixing m 1.8	Product type designation			P1 MB
Compliance IEC / UL1077 Electrical features v 440 Rated inpulse withstand voltage Uinp kV 4 Rated operational voltage AC (IEC) VAC 230/400 Rated operational voltage DC VDC 80 Rated frequency Hz 50/60 Rated frequency A 1 Rated frequency KA 10 Storage temperature min "C 40 Max altitude min "C 40 Mechanical features min Nm 2 <	Number of poles			2P
Electrical features V 440 Rated insulation voltage Uin p kV 4 Rated operational voltage DC VAC 230/400 Rated operational voltage DC VDC 80 Rated operational voltage DC Hz 50/60 Rated current (In) A 1 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.07 Ambient conditions W 1.07 Operating temperature min °C -40 Max °C +70 Storage temperature min °C -40 Max altitude m 2000 Mechanical features min Vertical plan Operating position normal Vertical plan Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 2	Number of DIN modules			2
Rated insulation voltage Uir IEC/EN V 440 Rated impulse withstand voltage UImp RV 4 Rated operational voltage AC (IEC) VDC 80 Rated operational voltage DC VDC 80 Rated current (In) A 1 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1,07 Ambient conditions W 1,07 Operating temperature min °C -40 max °C +70 Storage temperature min °C -40 Max altitude m 2000 Mechanical features 0 -40 Operating position normal Vertical plan Fixing normal Vertical plan Tightening torque for terminals min Nm 1.8 min Nm 1.8 1.8 min Ibin 16 <td>Compliance</td> <td></td> <td></td> <td>IEC / UL1077</td>	Compliance			IEC / UL1077
Rated impulse withstand voltage Ulimp kV 4 Rated operational voltage AC (IEC) VAC 230/400 Rated operational voltage DC VDC 80 Rated frequency Hz 50/60 Rated current (In) A 1 Tripping curve C C Short circuit rating (IEC) KA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.07 Ambient conditions min °C -40 Max altitude min °C -40 Max altitude min °C -40 Max altitude mormal Vertical plan Fixing 35mm DIN rail Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 2 Conductor section min nm 1.7 Terminals tool min min min 1.7 Terminals tool <	Electrical features			
Rated operational voltage DC VAC 230/400 Rated operational voltage DC VDC 80 Rated frequency Hz 50/60 Rated current (In) A 1 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.07 Ambient conditions W 1.07 Operating temperature min °C -40 Max altitude m 2000 Mechanical features min °C -40 Operating position normal Vertical plan 1 Fixing 35mm DIN rail 1 Tightening torque for terminals min Nm 1 Infantation min 16 1 Torritority min 16 1 Tightening torque for terminals min 16 1 1 Terminals tool max 10 2	Rated insulation voltage Ui IEC/EN		V	440
Rated operational voltage DC VDC 80 Rated frequency Hz 50/60 Rated current (In) A 1 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.07 Ambient conditions W 1.07 Operating temperature min °C -40 max °C +70 Storage temperature min °C -40 Max altitude m 2000 Mechanical features min 2000 Operating position normal Vertical plan Fixing normal Vertical plan Tightening torque for terminals min Nm 1.8 max Nm 2 1 Terminals tool min loin 16 1 Conductor section min mm 1 1 AWG/Kcmil <	Rated impulse withstand voltage Uimp		kV	4
Rated frequency Hz 50/60 Rated current (In) A 1 Tripping curve C C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.07 Ambient conditions TO Add To Operating temperature min of C of	Rated operational voltage AC (IEC)		VAC	230/400
Rated current (in) A 1 Tripping curve C Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.07 Ambient conditions Operating temperature min °C -40 max °C +70 Storage temperature Max altitude m 2000 Mechanical features Operating position normal Vertical plan Fixing 35mm DIN rail Fixing 35mm DIN rail Tightening torque for terminals min Nm 1.8 max Nm 2 min lbin 17.7 Terminals tool min mm 2 Conductor section IEC min mm 1 AWG/Kcmil min mm 2	Rated operational voltage DC		VDC	80
Tripping curve	Rated frequency		Hz	50/60
Short circuit rating (IEC) kA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.07 Ambient conditions Operating temperature min °C -40 max °C +70 Storage temperature min °C -40 max °C +80 Max altitude min 2000 Mechanical features Operating position Fixing 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 mm² 1/max mm² 3/5 AWG/Kcmil min min mm² 14 max mm² 3/5 AWG/Kcmil min max 5/max mm² 3/5 Mechanical life cycles 20000 Weight g 230	Rated current (In)		Α	1
Short circuit rating (IEC) KA 10 Electrical life cycles 10000 Power dissipation per pole max W 1.07 Ambient conditions Operating temperature min °C -40 max °C +70 Storage temperature min °C -40 max °C +80 Max altitude min normal Vertical plan Mechanical features Operating position Fixing 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 mm² 1/max mm² 35 AWG/Kcmil min min mm² 14 max mm² 35 AWG/Kcmil min max 5 cycls 20000 Mechanical life cycls 20000	Tripping curve			С
Electrical life			kA	10
Ambient conditions			cycles	10000
Ambient conditions	Power dissipation per pole max		W	1.07
Min				
Max C +70	Operating temperature			
Storage temperature min max °C max -40 max °C max +80 max Moderance Mod		min	°C	-40
Max altitude min max °C +80 Mechanical features Operating position Fixing Normal Vertical plan Tightening torque for terminals min Nm 1.8 max Nm 2 min 1bin 16 max 1bin 17.7 Terminals tool Pz 2 Conductor section IEC min mm² 1 mm² 1 mm² 35 AWG/Kcmil min min 14 max 6 Mechanical life cycles 20000 Weight g 230		max	°C	+70
Max altitude min max °C +80 Mechanical features Operating position Fixing Normal Vertical plan Tightening torque for terminals min Nm 1.8 max Nm 2 min 1bin 16 max 1bin 17.7 Terminals tool Pz 2 Conductor section IEC min mm² 1 mm² 1 mm² 35 AWG/Kcmil min min 14 max 6 Mechanical life cycles 20000 Weight g 230	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 mm² 1 AWG/Kcmil min min 14 Mechanical life cycles 20000 Weight g 230		min	°C	-40
Mechanical features Operating position Fixing 35mm DIN rail Tightening torque for terminals min Nm Nm 1.8 max Nm 2 mmx Nm 2 mmx lbin 16 max lbin 16 max lbin 17.7 Terminals tool Pz 2 Conductor section IEC min mm² 1 nm² 35 AWG/Kcmil min max mm² 35 AWG/Kcmil min max 14 max 6 Mechanical life cycles 20000 Weight g 230		max	°C	+80
Operating position Fixing 35mm DIN rail Tightening torque for terminals min Nm Nm 1.8 max Nm 2 min Ibin 16 max Ibin 17.7 Terminals tool Pz 2 Conductor section IEC min mm² mm² 35 1 mm² 35 AWG/Kcmil min max mm² 35 14 max 6 Mechanical life cycles 20000 Weight g 230	Max altitude		m	2000
Fixing Jesting Journals 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 mm² 1 AWG/Kcmil min mm² 35 AWG/Kcmil min max 6 Mechanical life cycles 20000 Weight g 2300	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 1 max mm² 35 AWG/Kcmil min max mm² 35 Mechanical life cycles 20000 Weight g 230	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 Pz 2 Conductor section Pz 2 IEC min mm² 1 max mm² 35 AWG/Kcmil min max mm² 35 Mechanical life cycles 20000 Weight g 230		normal		Vertical plan
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 mm² 1 AWG/Kcmil min mm² 35 AWG/Kcmil min 14 max 6 Mechanical life cycles 20000 Weight g 230	Fixing			35mm DIN rail
Max Nm 2 min lbin 16 max lbin 17.7	Tightening torque for terminals			
Mechanical life min max lbin max lbi		min	Nm	1.8
Terminals tool		max	Nm	2
Terminals tool Pz 2		min	lbin	16
Conductor section IEC		max	lbin	17.7
IEC	Terminals tool			Pz 2
min mx mm² mx 1 mm² 35 AWG/Kcmil min mx 14 max Mechanical life cycles 20000 Weight g 230	Conductor section			_
Mechanical life max mm² 35 Meight 14 6 Weight g 230	IEC			
AWG/Kcmil min max 14 max 6 Mechanical life cycles 20000 Weight g 230		min	mm²	
min max 14 max Mechanical life cycles 20000 Weight g 230		max	mm²	35
Mechanical life cycles 20000 Weight g 230	AWG/Kcmil			
Mechanical lifecycles20000Weightg230		min		
Weight g 230		max		
	Mechanical life		cycles	20000
Frontal IP degree IP20			g	
	Frontal IP degree			IP20

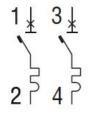


ENERGY AND AUTOMATION

Pollution degree		2
Grid distance as per Annex H.1 of IEC/EN60898-1 standard	mm	60
Dimensions		

36 max (1.42" max) -45 (1.77") -42 max (2.91" max) -40 (2.36") -45 (1.77") -45 (0.22") -74 max (2.91" max)

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)