



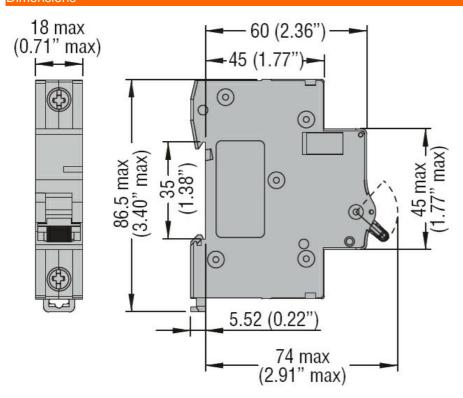
Product designation         Formation or product type designation or product type designatio				
Product type designation	Draduat designation			Miniature circuit
Number of poles         1 P           Number of DIN modules         1 C           Compliance         1 EIC / UL 1077           Electrical features         IEC / UL 1077           Rated insulation voltage UI IEC/EN         V         440           Rated insulation voltage UImp         kV         4           Rated operational voltage DC         VDC         80           Rated operational voltage DC         VDC         80           Rated frequency         A         16           Rated Greguency         KA         10           Rated Guerent (In)         KA         10           Power dissipation per pole max         KA         10           Ambient conditions         W         1,69           Departing temperature         min         °C         40           Max altitude         m         2000           Mechanical features         mm         70         +80           Deparati	Product designation			breaker (MCB)
Number of DIN modules         1         Compliance         EC / UL1077           Cledital features         V         440           Rated insulation voltage UI IEC/EN         V         40           Rated inpulse withstand voltage Uimp         kV         40           Rated operational voltage DC         VDC         20           Rated operational voltage DC         VDC         80           Rated frequency         Lb         50/60           Rated current (In)         A         16           Fipping curve         KA         10           Short circuit rating (IEC)         KA         10           Electrical life         v         1000           Power dissipation per pole max         W         1.68           Ambient conditions         w         1.69           Operating temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         m         2000           Operating position         m         2000           Fixing         nommal         Nm         2           Fixing         min         Nm         1.8           min         Nm         1.8 <t< td=""><td>Product type designation</td><td></td><td></td><td>P1 MB</td></t<>	Product type designation			P1 MB
Compliance   Section   S	Number of poles			1P
Electrical features         V         440           Rated insulation voltage Uimp         kV         4           Rated operational voltage C(IEC)         VAC         230           Rated operational voltage DC         VDC         80           Rated operational voltage DC         Hz         50/60           Rated current (In)         A         16           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           Ambient conditions         W         1.69           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         min         1m         1.8           max         nm         2         2         2           Conductor section	Number of DIN modules			1
Rated insulation voltage Ui IEC/EN         V         4440           Rated impulse withstand voltage Uimp         kV         4           Rated operational voltage DC         VDC         80           Rated operational voltage DC         LB         50/60           Rated operational voltage DC         A         16           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Power dissipation per pole max         W         1.69           Ambient conditions         W         1.69           Operating temperature         min         °C         -40           max         °C         +40         max         °C         +40           Max altitude         m         voltage temperature         voltage temperature         Wetcal temperature         No         1.8         No         1.8         No         1.8         No         1.8         No         1.8         No         1.8	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         16           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           Ambient conditions         min         °C         -40           Max abient conditions         min         °C         -40           Storage temperature         min         °C         -40           Max altitude         min         °C         -40           Max altitude         min         °C         -40           Max altitude         min         °C         -40           Mechanical features         35mm DIN rail           Fixing         35mm DIN rail         10           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         2           Conduc	Electrical features			
Rated operational voltage AC (IEC)         VAC         230           Rated operational voltage DC         VDC         80           Rated frequency         Hz         50/60           Rated current (In)         A         16           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           Ambient conditions         W         1.69           Operating temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         min         200         -40           Operating position         normal         Vertical plan         -35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         -40           max         nm         2         -40           min         nm         2         -40           max         nm         2000         -40           max         nm         20000         -40           max	Rated insulation voltage Ui IEC/EN		V	440
Rated operational voltage DC         VDC         80           Rated frequency         Hz         50/60           Rated current (In)         A         16           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           Ambient conditions         W         1.69           Operating temperature         min         °C         -40           Max         °C         +70           Storage temperature         min         °C         -40           Max altitude         max         °C         +80           Max altitude         max         °C         +80           Mechanical features         Operating position         Vertical plan           Fixing         35mm DIN rail         Tightening torque for terminals         min         Nm         1.8           max         Nm         2         1.6         1.7         1.7           Terminals tool         min         Inf         Inf         1.7         1.7         1.7         1.7         1.7         1.7         1.7	Rated impulse withstand voltage Uimp		kV	4
Rated frequency         Hz         50/60           Rated current (In)         A         16           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           Ambient conditions         min         °C         -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           Terminals tool         min         16         min         17.7           Terminals tool         min         min         17.7         17.7           Terminals tool         min         min         16         min         min         17.7           Terminal	Rated operational voltage AC (IEC)		VAC	230
Rated current (in)         A         16           Tripping curve         C           Short circuit rating (IEC)         KA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           Ambient conditions         Temperature           Operating temperature         min         °C         -40           max         Nm	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         1.69           Ambient conditions         min         °C         -40           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         min         lbin         17.7           Terminals tool         min         min         mm²         2           Conductor section         min         mm²         1         mm²         3           AWG/Kcmil         min         min         min         min         14         min         min         6           Mechanical life         cycle         20000         20000         2         20000         2	Rated frequency		Hz	50/60
Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           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         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         nin         10n         1.7           Terminals tool         EC         Conductor section         IEC         min         mm         1         1           AWG/Kcmil         min         mm         14           Mechanical life         cycle         20000           Weight         g         115	Rated current (In)		Α	16
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="3">-40 col	Power dissipation per pole max		W	1.69
Min	Ambient conditions			
Storage temperature           Storage temperature           min or	Operating temperature			
Storage temperature         min max         °C max         -40 max         °C max         +80 max         Moderation		min	°C	-40
Max altitude         min max         °C +80           Max altitude         m 2000           Mechanical features           Operating position           Fixing         Journal of Normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals           min Nm 1.8 max Nm 2 min 10 lbin 16 max 10 lbin 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         Vertical plan           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2           min         lbin         17.7           Terminals tool         pz 2           Conductor section         min         mm²         1           AWG/Kemil         min         mm²         35           AWG/Kemil         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         mm²         1           AWG/Kcmil         min         14           max         min		min	°C	-40
Mechanical features           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           IEC         min         mm²         1           AWG/Kcmil         min         mm²         35           AWG/Kcmil         min         max         6           Mechanical life         cycles         20000           Weight         g         115		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 14 max mm² 35           AWG/Kcmil         min min min mm² 14 max 6           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         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         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 mm² 6           Mechanical life         cycles 20000           Weight         g 115	Operating position			
Tightening torque for terminals		normal		Vertical plan
Mechanical life   Min   Nm   1.8   max   Nm   2   min   lbin   16   max   lbin   17.7     Terminals tool   Pz 2   Terminals tool   Pz 2   Terminals tool   Pz 2   Terminals tool   Terminals tool   Terminals tool   Terminals tool   Pz 2   Terminals tool   Terminals tool   Terminals tool   Terminals tool   Pz 2   Terminals tool   Terminals tool	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	Nm	1.8
Terminals tool		max	Nm	2
Terminals tool   Pz 2		min	lbin	16
Conductor section   IEC		max	lbin	17.7
Fig. 10   Fig. 2000   Fig. 2	Terminals tool			Pz 2
Mechanical life         min mx         mm² mm² mm² mm² 35           Weight         14           min max         6           Veight         g         115	Conductor section			_
Mechanical life         max         mm²         35           Meight         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	mm²	1
min max         14 max           Mechanical life         cycles         20000           Weight         g         115		max	mm²	35
Mechanical life         max         6           Weight         cycles         20000           g         115	AWG/Kcmil			
Mechanical lifecycles20000Weightg115		min		14
Weight g 115		max		6
	Mechanical life		cycles	20000
Frontal IP degree IP20	Weight		g	115
	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**



## 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)