



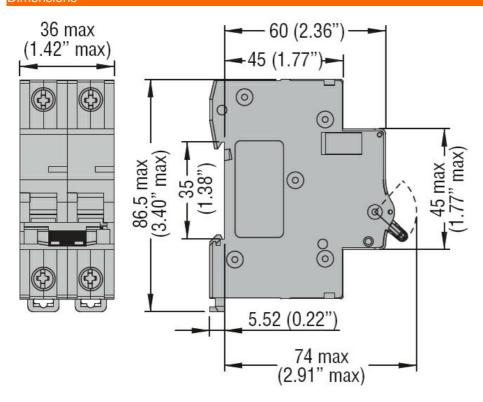
Product type designation         Minitative circuits in product type designation         Minitative circuits in product type designation         P1 MB           Number of poles         2P         P1 MB           Number of DIN modules         2P         IEC / UL1077           Electrical retures         IEC / UL1077           Electrical retures         V         440           Rated insulation voltage UIEC/EN         VC         230/400           Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage BC         VDC         80           Rated derequency         L         50/60           Rated drequency         L         16           Rated drequency         L         16           Rated frequency         L         16           Rated poerational voltage AC (IEC)         KA         10           Rated frequency         L         16           Rated poerational voltage AC (IEC)         KA         10           Electrical life         cycles         10000           Power dissignation per pole max         min         °C         -40           Ambient conditions         min         °C         +70           Storage temperature         min         "C<				
Product type designation	Product 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	-			
Number of DIN modules         2           Compliance         IEC / UL1077           Electrical features         IEC / UL1077           Rated insulation voltage UI IEC/EN         V         440           Rated insulation voltage LOC         VAC         230/400           Rated operational voltage DC         VDC         80           Rated drequency         Hz         50/60           Rated frequency         KA         16           Rated frequency         KA         16           Rated current (In)         KA         10           Electrical life         vclss         10000           Short circuit rating (IEC)         KA         10           Electrical life         vclss         10000           Power dissipation per pole max         W         1.68           Ambient conditions         W         1.69           Operating temperature         min         °C         40         1.60           Storage temperature         min         °C         40         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60         1.60 <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td></td> <td></td>	· · · · · · · · · · · · · · · · · · ·			
Compliance   Section   S	·			
Electrical features         V         440           Rated insulation voltage Uinpp         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         16           Tripping curve         B         B           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         .40         .40           max         °C         .40         .40           Max altitude         m         2000           Mechanical features         .40         .40           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         .2				
Rated insulation voltage Ui IEC/EN	<del>`</del>			IEC / OL 10//
Rated impulse withstand voltage Uimp         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         16           Tripping curve         B         A         10           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			\/	440
Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage DC         NDC         80           Rated frequency         Hz         50/60           Rated current (In)         A         16           Tripping curve         B         B           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           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2           min         1bin         17.7           Terminals tool         min         min         16           Conductor section         min         min         16           AWG/Kcmil         min         min         14				
Rated operational voltage DC         VDC         80           Rated frequency         Hz         50/60           Rated current (In)         A         16           Tripping curve         B         1           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         min         200         Wertical plan           Fixing         normal         Vertical plan           Fixing         35mm DIN rail         1           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         2           Conductor section         min         min         16           max         mm         2         2           AWG/Kcmil         min				
Rated frequency         Hz         50/60           Rated current (In)         A         16           Tripping curve         B         B           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           Ambient conditions         To 40         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         s5mm DIN rail           Tightening torque for terminals         min         Nm         1.8           In min         Nm         1.8         2           min         bin         1.7.7         2           Terminals tool         min         10         1.7.7           Terminals tool         min         10         1.7.7           Terminals tool         min         1.7.7         2.7           Conductor section         min <td></td> <td></td> <td></td> <td></td>				
Rated current (In)         A         16           Tripping curve         B           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         °C         -40         max         °C         -40           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         16         min         17.7           Terminals tool         pz 2         2         Conductor section         min         mm         1         min         mm         2         min				
Tripping curve				
Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           Amblent 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         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min Nm 1.8 max Nm 2 min 10 lbin 16 max lbin 17.7           Terminals tool         p 2 2           Conductor section         IEC           min max mm² 35           AWG/Kcmil         min min mm² 14 max 6           Mechanical life         cycles 20000           Weight         g 230			Α	
Electrical life         cycles         10000           Power dissipation per pole max         W         1.69           Ambient conditions			Ι- Λ	
Power dissipation per pole max         W 1.69           Ambient conditions           Operating temperature         min °C -40 max °C +70           Storage temperature           min °C -40 max °C +80           Max attitude         m 2000           Mechanical features         Operating position           Fixing         Torminal small plan           Fixing         Torminal small plan           Tightening torque for terminals         min Nm 1.8 max Nm 2 max Nm 16 max Nm 2 max Nm				
Ambient conditions			-	
Operating temperature           Storage temperature         min occordents occordent o			VV	1.69
Min				
Max   C   +70	Operating temperature		0.0	40
Storage temperature         min max         °C max         -40 max         °C max         +80 max         Moderation				
Max altitude         min max         °C +40 +80           Max altitude         m 2000           Mechanical features           Operating position           Fixing         Other terminals           Tightening torque for terminals         min Nm 1.8 max Nm 2 min 10 in 16 max 10 in 17.7           Terminals tool         Pz 2           Conductor section           IEC         min mm² 1 mm² 1 mm² 35         min mm² 35         min mm² 35         min mm² 4 mm² 36         min mm² 4 mm² 36         min mm² 14 max 6         min min mm² 6         min mm² 2000         min min mm² 35         min min mm² 35         min min mm² 35         min mm² 3		max	<u> </u>	+/0
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         mm²         1           AWG/Kcmil         min         mm²         35           AWG/Kcmil         min         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				
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 16 max lbin 17.7           Terminals tool         Pz 2           Conductor section           IEC         min mm² 1 min mm² 35           AWG/Kcmil         min max m² 35           AWG/Kcmil         min min min min min min min max 6         Mechanical life         cycles 20000         Weight         g 230	- 100 A	max		
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 mm² 1 sol           AWG/Kcmil         min max mm² 35           AWG/Kcmil         min max max mm² 35           Mechanical life         cycles 20000           Weight         g 230			m	2000
Fixing         Journal of the plan				
Fixing         35mm DIN rail           Tightening torque for terminals         min Nm 1.8 max Nm 2 min 1bin 16 max 1bin 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			
Tightening torque for terminals           min max         Nm max Nm	<del></del>	normal		
Min   Nm   1.8   max   Nm   2   min   Ibin   16   max   Ibin   17.7				35mm DIN rail
Max   Nm   2   min   lbin   16   max   lbin   17.7	lightening torque for terminals			4.0
Mechanical life   min max   lbin max   lbi				
Terminals tool				
Terminals tool				
Conductor section   IEC	<del>-</del>	max	IDIN	
IEC				Pz 2
min mx         mm² mx         1 mm² 35           AWG/Kcmil         min mx         14 max           Mechanical life         cycles         20000           Weight         g         230				
AWG/Kcmil         max         mm²         35           min max         14 max         6           Mechanical life         cycles         20000           Weight         g         230	IEC	_	•	
AWG/Kcmil           min max         14 max         6           Mechanical life         cycles         20000           Weight         g         230				
min max         14 max           Mechanical life         cycles         20000           Weight         g         230	- NAC 25	max	mm²	35
Mechanical life         cycles         20000           Weight         g         230	AWG/Kcmil	_		
Mechanical lifecycles20000Weightg230				
Weight g 230	To	max		
<u>`</u>			cycles	
Frontal IP degree IP20			g	
	Frontal IP degree			IP20



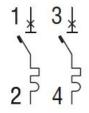
ENERGY AND AUTOMATION

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

## **Dimensions**



## 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)