



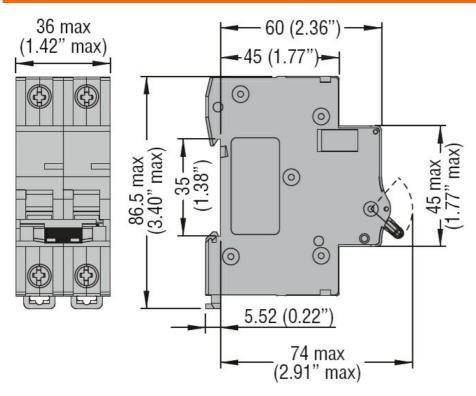
Product designation         Minitary calculation beaker (MCR) breaker (MCR)           Product type designation         1 P1 MB           Number of poles         2 P           Number of DIN modules         1 EC / UL1077           Compliance         IEC / UL1077           Electrical retures         V         440           Rated insulation voltage UI EC/EN         V         40           Rated inpulse withstand voltage Ump         VC         230/400           Rated operational voltage AC (IEC)         VC         203/400           Rated operational voltage BC         VDC         125           Rated derequency         A         6           Rated frequency         B         5060           Rated frequency         KA         10           Rated frequency         KA         10           Rated frequency         KA         10           Rated poerational voltage DC         KA         10           Rated poerational voltage DC         KA         10           Rated poerational voltage DC         KA         10           Power dissipation per pole max         Manal Value         10000           Ambient contitions         min         *C         40           Power dissipation per				
Product type designation	Product designation			
Number of poles         2 P           Number of DIN modules         2 P           Compliance         IEC / UL 1077           Electrical features         IEC / UL 1077           Rated insulation voltage Ui IEC/EN         V 440           Rated insulation voltage Uimp         kV 230/400           Rated operational voltage DC         VDC 125           Rated operational voltage DC         VDC 125           Rated frequency         H2 50/60           Rated current (In)         A 63           Tripping curve         KA 10           Short circuit rating (IEC)         KA 10           Electrical life         cycles 10000           Power dissipation per pole max         KA 10           Ambient conditions         W 5.16           Operating temperature         min °C 40           Max altitude         m 2000           Mechanical features         mm 2000           Operating position         normal °C 480           Fixing         35mm DIN rail           Tightening torque for terminals         min 8mx Nm 2           In max Nm 2         35mm DIN rail           Tightening torque for terminals         min 8mx Nm 2           In max Nm 2         2           Conductor section	-			
Number of DIN modules         2           Corpliance         IEC / UL10177           Electrical features         IEC / UL1017           Rated insulation voltage UI IEC/EN         V         440           Rated insulation voltage LOC         VDC         203/400           Rated operational voltage DC         VDC         125           Rated current (In)         A         63           Rated current (In)         A         63           Floringing curve         KA         10           Electrical life         VDC         10000           Power dissipation per pole max         KA         10           Ambient conditions         V         5.16           Operating temperature         V         5.16           Storage temperature         min         °C         40	• • •			
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         125           Rated doperational voltage DC         Hz         50/60           Rated current (In)         A         63           Tripping curve         B         B           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         5.16           Ambient conditions         W         5.16           Operating temperature         min         °C         -40           Max         °C         -40         max         °C         -40           Storage temperature         min         °C         -40         max         °C         -40           Max altitude         m         2000         2000         Mechanical features         Vertical plan         Fixing         35mm DIN rail           Fixing         n         10         10         10         10         10         10         10         10         10 <t< td=""><td></td><td></td><td></td><td></td></t<>				
Rated insulation voltage Ui IEC/EN				ILC / OLIOI1
Rated impulse withstand voltage Uimp         kV         4           Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage DC         VDC         125           Rated frequency         Hz         50/60           Rated current (In)         A         63           Tripping curve         B         A         10           Short circuit rating (IEC)         kA         10           Power dissipation per pole max         W         5.16           Ambient conditions         min         °C         -40           Operating temperature         min         °C         -40           Max altitude         m         200         20           Mechanical features         m         200         20           Operating position         normal         Vertical plan         1           Fixing         normal         Vertical plan         1           Fixing         min         Nm         1.8           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         2           Conductor section         min         mm         1           AWG/Kcmil			V	440
Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage DC         VDC         125           Rated frequency         Hz         50/60           Rated current (In)         A         63           Tripping curve         B         B           Short circuit rating (IEC)         KA         10           Electrical Iffe         cycles         10000           Power dissipation per pole max         W         5.16           Ambient conditions         min         °C         -40           Power dissipation per pole max         min         °C         -40           Ambient conditions         min         °C         -40           Storage temperature         min         °C         -40           Max altitude         min         200           Mechanical features         min         Vertical plan           Operating position         normal         Vertical plan           Tightening torque for terminals         min         Nm         1.8           max         Nm         2           min         1bin         16           max         1bin         17.7           Terminals tool         min				
Rated operational voltage DC         VDC         125           Rated frequency         Hz         50/60           Rated current (In)         A         63           Tripping curve         B         1           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         5.16           Ambient conditions           Operating temperature           min         °C         -40           max         °C         +70           Storage temperature           Max altitude         min         °C         -40           Mechanical features         min         °C         -40           Operating position         min         °C         -40           Fixing         sommon In         Vertical plan           Fixing         min         Nm         1.8           max         Nm         2           gibin         11,7         2           Terminals tool         min         nm         16           max         nm         2         2           Conductor sec				
Rated frequency         Hz         50/60           Rated current (In)         A         63           Tripping curve         B         B           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         5.16           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           In min         Nm         2         2           Conductor section         min         lon         1.7.7           Terminals tool         min         min         1.7.7           Terminals tool         min         min         1.7.7           Conductor section         min         min         1.7.7           AWG/Kc				
Rated current (in)         A         63           Tripping curve         B           Short circuit rating (IEC)         KA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         5.16           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           Fixing         35mm DIN rail           Fixing         1.8           max         Nm         1.8           max         Nm         2           min         Inn         1.8         1.8           max         Nm         2         2           Conductor section         min         mm         2         2           Conductor section         min         mm         1         4           AWG/Kcmil         min				
Tripping curve				
Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         5.16           Ambient conditions         Topa and the proper district conditions           Operating temperature         min °C -40 max °C +70           Storage temperature         min °C -40 max °C +80           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 18 min 16 max lbin 17.7           Terminals tool         p 2 2           Conductor section         P 2 2           Conductor section         min mm² 1 mm² 3 mm² 3 s           AWG/Kcmil         min min mm² 14 max 6 max mm² 3 s           Mechanical life         cycles 20000           Weight         g 230			Α	
Electrical life         cycles         10000           Power dissipation per pole max         W 5.16           Ambient conditions			I.Λ	
Power dissipation per pole max         W 5.16           Ambient conditions           Operating temperature         min °C -40 max °C +70           Storage temperature         min °C -40 max °C +80           Max altitude         min °C -40 max °C +80           Mechanical features         Operating position           Fixing         normal Vertical plan           Fixing         Normal Nm 1.8 max Nm 2 max Nm 16 max Nm 2 max	<u> </u>			
Ambient conditions			-	
Operating temperature         min occ occ occ occ occ occ occ occ occ oc			VV	5.16
Min				
Max   O	Operating temperature		00	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         Vertical plan           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 nm² 1 mm² 1 mm² 35           AWG/Kcmil         min mm² 14 max 6           Mechanical life         cycles 20000           Weight         g 230	20	max	- C	+70
Max altitude         max         °C         +80           Mechanical features         Vertical plan         Mechanical features         Vertical plan         Mechanical features         Mechanical features         Mechanical features         Vertical plan         Mechanical features         Mechanical features         Nmm         1.8         Mechanical features         Nmm         2         Mechanical features         Mechanical features         Nmm         1.8         Mechanical features	Storage temperature		0.0	40
Max altitude         m         2000           Mechanical features           Operating position           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           min         Ibin         1.8           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 17.7           Terminals tool         Pz 2           Conductor section           IEC         min mm² 1 mm² 1 mm² 35           AWG/Kcmil         min mx 14 max 6           Mechanical life         cycles 20000           Weight         g 230	A. Detect	max		
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         max         6           Mechanical life         cycles         20000           Weight         g         230			m	2000
Fixing         Vertical plan           Tightening torque for terminals           min Max Mm 1.8 Mm 2 Mm 2 Mm 1 blin 16 max 1bin 17.7           Terminals tool         Pz 2           Conductor section           IEC         min mm² mm² 1 mm² 12 mm² 35           AWG/Kcmil         min max mm² 35         min max mm² 6           Mechanical life         cycles         20000           Weight         g 230				
Fixing         35mm DIN rail           Tightening torque for terminals         min Nm 1.8 max Nm 2 min Ibin 16 max Ibin 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	Tightening torque for terminals			
Mechanical life   min max   lbin   16 max   lbin   17.7				
Terminals tool				
Terminals tool   Pz 2				
Conductor section   IEC		max	Ibin	
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		max	mm²	35
Mechanical life         cycles         20000           Weight         g         230	AWG/Kcmil			
Mechanical lifecycles20000Weightg230		min		
Weight g 230	·	max		
<u>`</u>			cycles	
Frontal IP degree IP20	<u> </u>		g	
	Frontal IP degree			IP20



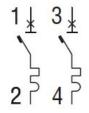
ENERGY AND AUTOMATION

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)