



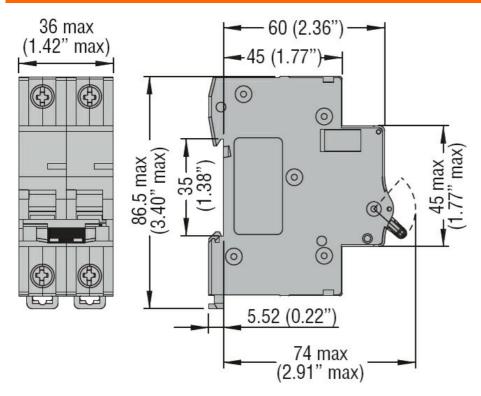
Product designation         Minitary calculation beaker (MCR) breaker (MCR)           Product type designation         1 P1 MB           Number of poles         2 P           Number of DIN modules         1 EC / UL1077           Compliance         IEC / UL1077           Electrical retures         V         440           Rated insulation voltage UI EC/EN         V         40           Rated inpulse withstand voltage Ump         VC         230/400           Rated operational voltage AC (IEC)         VC         230/400           Rated operational voltage BC         VDC         125           Rated derequency         LA         6           Rated frequency         LA         6           Rated frequency         LA         10           Rated frequency         LA         10           Rated frequency         LA         10           Rated perational voltage DC         LA         10           Rated perational voltage DC         LA         10           Rated operational voltage DC         LA         10           Power dissipation per pole max         LA         10           Ambient controllions         min         °C         40           Max allitude         min </th <th></th> <th></th> <th></th> <th></th>				
Product type designation	Product designation			
Number of poles         2P           Number of DIN modules         2           Compliance         IEC / UL 1077           Electrical features         IEC / UL 1077           Rated insulation voltage Ui IEC/EN         V         440           Rated insulation voltage Uimp         kV         4           Rated operational voltage C(IEC)         VAC         230/400           Rated operational voltage DC         VDC         125           Rated operational voltage DC         L         060           Rated frequency         L         060           Rated furgency         L         C           Rated furgency         L         C           Short circui trating (IEC)         L         KA         10           Power dissipation per pole max         KA         10         10000           Power dissipation per pole max         W         10         4           Ambient conditions         min         **C         +40           Max altitude         m         2000         20           Mechanical features         min         **C         +40           Operating position         min         Nm         1.8           Fixing         min         Nm	-			
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         230/400           Rated operational voltage DC         VDC         125           Rated current (In)         A         6           Rated current (In)         A         10           Electrical life         VDC         10000           Power dissipation per pole max         KA         10           Ambient conditions         W         1.04           Operating temperature         min         °C         40           Max altitude         min         °C         40           Max altitude         min         °C         40           Mechanical features         mormal         Vertical plan           Operating position         min         Nm         1.8           Fixing         mormal         Nm         2.8           Fixing         mormal         Nm         2.8           Fixing         min         Nm         2.8           Fixing         min         Nm         2.8	· · · · · · · · · · · · · · · · · · ·			
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         6           Tripping curve         KA         10           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions         W         1.04           Operating temperature         min         °C         -40           Max         °C         -40         max         °C         -40           Max altitude         min         °C         -40         <				
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         6           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions         min         °C         -40           Power dissipation per pole max         min         °C         -40           Ambient conditions         min         °C         -40           Correcting temperature         min         °C         -40           Max altitude         min         °C         -40           Max altitude         min         °C         -40           Max altitude         min         °C         -40           Fixing         mormal         Vertical plan           Fixing         min         Nm         1.8           max         Nm         2			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         6           Tripping curve         C         C           Short circuit rating (IEC)         KA         10           Electrical Iffe         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions           Operating temperature           min cycles         °C         -40           max         nm         -3mm           El				
Rated operational voltage DC         VDC         125           Rated frequency         Hz         50/60           Rated current (In)         A         6           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           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           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         2           Conductor section         min         min         nm         2           AWG/Kcmil				
Rated frequency         Hz         50/60           Rated current (In)         A         6           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           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         s5mm DIN rail           Tightening torque for terminals         min         Nm         1.8           In min         Nm         2         2           In min         loin         16         1.7           Terminals tool         min         loin         16         1.7           Terminals tool         min         loin         1.7         2         2           Conductor section         min         loin         1.4 </td <td></td> <td></td> <td></td> <td></td>				
Rated current (in)         A         6           Tripping curve         C           Short circuit rating (IEC)         KA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions           Operating temperature           min         °C         -40           max         Nm         2           max         Nm <td></td> <td></td> <td></td> <td></td>				
Tripping curve         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           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 Raw Nm 1.8 max Nm 2 max Nm 16 max Nm 17 max Nm 18 max N				
Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           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           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           Max amax mm² 35         AWG/Kcmil           Mechanical life         cycles 20000           Mechanical life         cycles 20000			Α	
Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions           Operating temperature         min of conditions of condition			IzΛ	
Power dissipation per pole max         W 1.04           Ambient conditions           Operating temperature         min °C -40 max °C +70           Storage temperature           min °C -40 max °C +80           Max altitude         m 2000           Mechanical features         Operating position           Fixing         normal         Vertical plan           Tightening torque for terminals         min Nm 1.8 max Nm 2 max Nm 1bin 17.7         2 min Ibin 16 max Ibin 17.7           Terminals tool         pz 2           Conductor section         IEC         min mm mm 2 max mm 35 max 35 max 14 max mm 35 max max mm 35	<u> </u>			
Ambient conditions			-	
Operating temperature         min occ occ occ occ occ occ occ occ occ oc			VV	1.04
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 16 max lbin 17.7           Terminals tool         Pz 2           Conductor section           IEC         min mm² 1 min mm² 35           AWG/Kcmil         min max max 14 min max 6           Mechanical life         cycles         20000           Weight         g 230	A. Detect	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 nm² 1 amax mm² 35           AWG/Kcmil         min max mm² 14 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		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



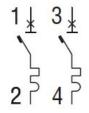
**ENERGY AND AUTOMATION** 

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)