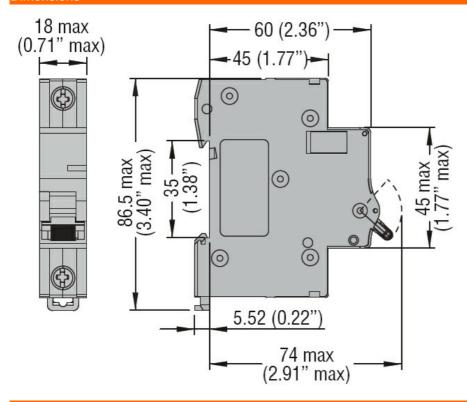




Product designation         Minitature circuits breaker (MCR)           Product type designation         1 P1 M8           Number of poles         1 P1 N           Number of DIN modules         1 EC           Compliance         IEC           Electrical reatures         V         440           Rated insulation voltage Uil EC/EN         V         2 30           Rated impulse withstand voltage Ulimp         kV         2 30           Rated drequency         Hz         50/60           Rated current (In)         A         6           Rated current (In)         A         6           Rated current (In)         KA         6           Short circuit rating (IEC)         kA         6           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions         W         1.04           Power dissipation per pole max         W         1.04           Amail of the product of the produ				
Product type designation	Product designation			
Number of poles         1P+N           Number of DIN modules         1           Compliance         1EC           Electrical features	•			, ,
Number of DIN modules         1           Compliance         IEC           Electrical features         V         40           Rated insulation voltage UI IEC/EN         NV         4           Rated inpulse withstand voltage LOImp         kV         4           Rated operational voltage AC (IEC)         NAC         230           Rated current (In)         A         6           Tripping curve         L         C           Short circuit rating (IEC)         kA         6           Electrical IIfe         cycles         10000           Power dissipation per pole max         W         1,04           Ambient conditions           Tograting temperature           Minimal Properties         C         40           Max altitude         minimal Properties         2         40           Max altitude         moral         C         40           Mechanical features           Operating position         moral         Vertical plan           Tipp Interval of terminals         minimal Properties         1,1           Max altitude         minimal Properties         1,2           Mi				
Compliance         IEC           Electrical features         V         440           Rated inpulse withstand voltage Uinp         kV         4           Rated operational voltage AC (IEC)         VAC         230           Rated doperational voltage AC (IEC)         VAC         230           Rated dreguency         HZ         50/60           Rated current (In)         A         6           Tripping curve         LX         6           Short circuit rating (IEC)         kA         6           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions         w         1.04           Operating temperature         min         °C         -40           Max         r         +70           Storage temperature         min         °C         +40           Max altitude         m         2000           Mechanical features         min         °C         +80           Operating position         mormal         Vertical plan           Fixing         normal         Nm         1.1           Michanical features         min         Nm         1.2     <	·			
Electrical features         Rated insulation voltage Uin p				•
Rated insulation voltage Uir IEC/EN         V         440           Rated impulse withstand voltage Uirp         kV         4           Rated operational voltage AC (IEC)         VAC         230           Rated frequency         Hz         50/60           Rated frequency         A         6           Tripping curve         C         C           Short circuit rating (IEC)         kA         6           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions         W         1.04           Operating temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         min         °C         -40           Operating position         monmal         Vertical plan         Fixing         35mm DIN rail           Fixing         35mm DIN rail         1.1         max         Nm         1.1         max         Nm         1.2         min         Imm         1.0         Nm         1.2         min         Nm         1.2         min         Nm         1.2         min         1.0         Nm         1.2         min				IEC
Rated impulse withstand voltage Uimp         kV         4           Rated operational voltage AC (IEC)         VAC         230           Rated requency         HZ         50/60           Rated current (In)         A         6           Tripping curve         C         C           Short circuit rating (IEC)         kA         6           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions         W         1.04           Operating temperature           min colspan="2">°C         -40           Max altitude         max         °C         -40           Max altitude         max         °C         -40           Mechanical features           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         nm         1.1           max         Nm         1.2         min         min         9.7           Terminals tool         min         min         nm         1.06           AWG/Kcmil         m				
Rated operational voltage AC (IEC)         VAC         230           Rated frequency         Hz         50/60           Rated current (In)         A         6           Tripping curve         C         C           Short circuit rating (IEC)         kA         6           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions         W         1.04           Operating temperature         min         °C         -40           max         °C         +70           Storage temperature         min         °C         -40           Max altitude         m         2000           Mexanical features         m         2000           Operating position         normal         °C         -40           Max altitude         m         2000           Meximple         m         2000           Meximple         m         Vertical plan           Fixing         normal         Nm         1.1           Tiple probability         min         Nm         1.1           Image: probability         min         Nm         1.2				
Rated frequency         Hz         50/60           Rated current (In)         A         6           Tripping curve         C         C           Short circuit rating (IEC)         KA         6           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions         w         1.04           Operating temperature         min         °C         -40           max         °C         +70           Storage 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         1.1           max         Nm         1.2         nmin         9.7           Terminals tool         min         min         1.0.6           Terminals tool         min         min         1.0.6           Terminals tool         min         min         min         1.0.6           Terminals tool	<u> </u>			
Rated current (in)         A         6           Tripping curve         C           Short circuit rating (IEC)         kA         6           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions           Operating temperature           min         °C         -40           max         Nm<				
Tripping curve         C           Short circuit rating (IEC)         kA         6           Electrical life         cycles         10000           Power dissipation per pole max         W         1.04           Ambient conditions         min         °C         -40           Operating temperature         min         °C         -40           Max         °C         +70           Storage temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         m         2000           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         1.1           max         Nm         1.2         min         10n         9.7           reminals tool         p         p         2           Conductor section         IEC         min         mm         1.6           AWG/Kcmil         min         mm         1.4         min         min         1.6           AWG/Kcmil         min         min         min<			Hz	
Short circuit rating (IEC)         kA         6           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 min °C -480           Max altitude         m rowspan="2">m rowspan="2">m rowspan="2">m rowspan="2">m rowspan="2">Mechanical features           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min Nm 1.1 max Nm 1.2 max Nm 1.2 max Nm 1.2 max Nm 1.2 max libin 10.6           Terminals tool         p z 2           Conductor section         IEC           min max mm² 16         mm² 16           AWG/Kcmil         min min mm² nm² 1         14           Mechanical life         cycles         20000           Weight         IP20	Rated current (In)		Α	6
Electrical life	Tripping curve			С
Power dissipation per pole max	Short circuit rating (IEC)		kA	6
Ambient conditions	Electrical life		cycles	10000
Operating temperature           min mmx occ +40 mmx occ +470           Storage temperature           min occ +40 mmx occ +480           Max altitude         m 2000           Mechanical features           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min mmx mmx         1.1           max         Nm         1.2           min         lbin         9.7           max         lbin         10.6           Terminals tool         P2 2           Conductor section           IEC         min         mm²         1           AWG/Kcmil         min         mm²         1           AWG/Kcmil         min         min         min         14           max         0         0         0         0         0           Mechanical life         cycles         20000         0         0         0         0         0         0         0         0         0         0         0         0         0         0	Power dissipation per pole max		W	1.04
Minimax   C   40 max   C   470 max   C   480 max   C   4	Ambient conditions			
Storage temperature         min min c c c colspan="2">c c colspan="2">c c colspan="2">c c colspan="2">c c colspan="2">c colspan=	Operating temperature			
Storage temperature		min	°C	-40
Max altitude         min max         °C +80           Max altitude         m 2000           Mechanical features           normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals           min mm Nm Nm 1.1 max         Nm 1.2 min lbin 9.7 max           min lbin 9.7 max         lbin 10.6           Terminals tool         p 2 2           Conductor section           IEC           min max         mm² 14 max           AWG/Kcmil         min max         14 max           Mechanical life         cycles         20000           Weight         g 115           Frontal IP degree         IP20		max	°C	+70
Max altitude         max         °C         +80           Mechanical features           Operating position           normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals           min         Nm         1.1         nmx         Nm         1.2         nm         nm         1.2         nm         9.7         nm         1.0         nm         2.2         nm         1.0         nm         2.2         nm         1.0         nm         1.0         nm         2.2         nm         nm         1.0         nm         1.0 </td <td>Storage temperature</td> <td></td> <td></td> <td></td>	Storage temperature			
Max altitude         m         2000           Mechanical features           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         1.1           max         Nm         1.2         nm         nm         2.2         2.2         2.0         2.0         nm         nm         1.6         nm         nm         1.6         nm         nm <th< td=""><td></td><td>min</td><td>°C</td><td>-40</td></th<>		min	°C	-40
Mechanical features           Operating position           Fixing         35mm DIN rail           Tightening torque for terminals           min         Nm         1.1           max         Nm         1.2           min         lbin         9.7           max         lbin         10.6           Terminals tool         Pz 2           Conductor section           IEC         min         mm²         1           AWG/Kcmil         min         mm²         16           AWG/Kcmil         min         14         4           Mechanical life         cycles         20000           Weight         g         115           Frontal IP degree         IP20		max	°C	+80
Operating position           Fixing         35mm DIN rail           Tightening torque for terminals           min Nm Nm 1.1 nmax Nm 1.2 nmin lbin 9.7 nmax lbin 10.6           Terminals tool         Pz 2           Conductor section           IEC         min nmin nmm² 1 nm² 16           AWG/Kcmil         min nmax nm² 14           AWG/Kcmil           Mechanical life         cycles         20000           Weight         g 115           Frontal IP degree         IP20	Max altitude		m	2000
Fixing         35mm DIN rail           Tightening torque for terminals         min max	Mechanical features			
Fixing         35mm DIN rail           Tightening torque for terminals         min max Nm 1.1 max Nm 1.2 min lbin 9.7 max lbin 10.6           Terminals tool         Pz 2           Conductor section         min mm² mm² 1 max mm² 16           AWG/Kcmil         min max mm² 16           Mechanical life         cycles 20000           Weight         g 115           Frontal IP degree         IP20	Operating position			
Tightening torque for terminals           min Nm 1.1 max Nm 1.2 min Ibin 9.7 max Ibin 10.6           Terminals tool         Pz 2           Conductor section           IEC         min mm² 1 1 max mm² 16           AWG/Kcmil         min 14 max 6           Mechanical life         cycles 20000           Weight         g 115           Frontal IP degree         IP20		normal		Vertical plan
Mechanical life   Min   Min	Fixing			35mm DIN rail
Max   Nm   1.2   min   Ibin   9.7   max   Ibin   10.6	Tightening torque for terminals			
min min lbin 9.7 max           Terminals tool         Pz 2           Conductor section           IEC           min max         mm² 10           AWG/Kcmil         min max         14           Mechanical life         cycles         20000           Weight         g         115           Frontal IP degree         IP20		min	Nm	1.1
Terminals tool		max	Nm	1.2
Terminals tool		min	lbin	9.7
Conductor section   IEC     min mm²   1   max mm²   16     min mm²   16     min mm²   16     min max   6   min max   6     min max   6     min max   6     min max   6   min max   6   min max   6   min max   6   min max   6   min max   6   min max   6   min max   6   min max   6   min max   min max   6   min max   min max   6   min max   min m		max	lbin	10.6
Frontal IP degree   IEC	Terminals tool			Pz 2
Mechanical life         cycles         20000           Weight         g         115           Frontal IP degree         IP20	Conductor section			
AWG/Kcmil         max         mm²         16           min max         14         6           Mechanical life         cycles         20000           Weight         g         115           Frontal IP degree         IP20	IEC			
AWG/Kcmil           min max         14 max         6           Mechanical life         cycles         20000           Weight         g         115           Frontal IP degree         IP20		min	mm²	1
min max         14 max           Mechanical life         cycles         20000           Weight         g         115           Frontal IP degree         IP20		max	mm²	16
Mechanical life         cycles         20000           Weight         g         115           Frontal IP degree         IP20	AWG/Kcmil			
Mechanical life         cycles         20000           Weight         g         115           Frontal IP degree         IP20		min		14
Weight g 115 Frontal IP degree IP20				
Weight g 115 Frontal IP degree IP20	Mechanical life		cycles	20000
Frontal IP degree IP20	Weight			115



## **Dimensions**



## Wiring diagrams

## Certifications and compliance

Compliance

IEC/EN 60898-1

IEC/EN 60947-2

Certifications

EAC

TÜV-Rheinland

## ETIM classification

**ETIM 8.0** 

EC000042 -Miniature circuit breaker (MCB)