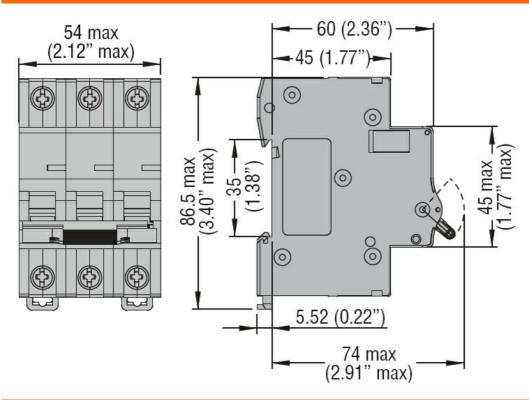




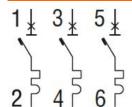
Product type designation         Minimature circuit by ineating (MCB)           Product type designation         91 MB           Number of poles         3P           Number of DIN modules         3           Compliance         IEC / UL1077           Electrical features         IEC / UL1077           Rated insulation voltage Uil IEC/EN         V         440           Rated impulse withstand voltage Ulimp         kV         4           Rated frequency         Hz         50/60           Rated current (In)         A         10           Rated frequency         L         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.25           Ambient conditions         W         1.25           Storage temperature         min         °C         40           Poperating temperature         min         °C         40           Max altitude         m         2000           Mechanical features         min         Nm         2           Poperating position         nomal         "C         40           Incomplete terminals         m				
Product type designation	Product designation			Miniature circuit
Number of poles         3P           Number of DIN modules         3P           Compliance         IEC / UL 1077           Electrical features         IEC / UL 1077           Rated insulation voltage Uil EC/EN         V         440           Rated insulation voltage Uimp         kV         4           Rated operational voltage C(IEC)         VAC         230/400           Rated frequency         Hz         50/60           Rated frequency         KA         10           Rated frequency         KA         10           Electrical life         c         C           Short circuit rating (IEC)         KA         10           Electrical life         cc         10000           Power dissipation per pole max         W         1,25           Ambient conditions         w         1,25           Operating temperature         min         °C         -40           Max         °C         -40         -40           Max altitude         max         °C         -40           Mechanical features         vertical plan         -7         -80           Fixing         normal         vertical plan         -7         -80           Fixin	1 Toddot designation			· · ·
Number of DIN modules         3           Compliance         IEC / UL1077           Electrical features         V         440           Rated insulation voltage UI IEC/EN         NV         4           Rated inpulse withstand voltage LOIrip         kV         4           Rated operational voltage AC (IEC)         NAC         230/400           Rated current (In)         A         10           Tripping curve         KA         10           Short circuit rating (IEC)         KA         10           Power dissipation per pole max         KA         10           Ambient conditions           Tograting temperature           Minimal Security         SC         40           Max altitude         min         °C         40           Max altitude         momal         °C         +80           Mechanical features         Tograting position         Normal         Vertical plan           Fixing         normal         Normal         1.8           Fixing         Normal         Normal         1.8           Fixing         pz 2         2           Conductor section         min         Nr         1.8				
Compliance         IEC / UL1077           Electrical features         x         440           Rated insulation voltage Uirip         kV         4           Rated impulse withstand voltage Uirip         kV         4           Rated operational voltage AC (IEC)         vAC         230/400           Rated operational voltage AC (IEC)         xA         10           Rated current (In)         A         10           Tripping curve         x         10           Short circuit rating (IEC)         xA         10           Electrical life         ycles         10000           Power dissipation per pole max         w         1,25           Ambient conditions         w         1,25           Operating temperature         min         °C         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40         -40 <t< td=""><td>·</td><td></td><td></td><td>3P</td></t<>	·			3P
Rated insulation voltage Ui IEC/EN				-
Rated insulation voltage Uir IEC/EN         V         440           Rated impulse withstand voltage Uirp         RV         4           Rated operational voltage AC (IEC)         VAC         230/400           Rated frequency         Hz         50/60           Rated frequency         A         10           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.25           Ambient conditions         W         1.25           Operating temperature         min         °C         -40           Max altitude         m         2000           Mechanical features         min         °C         +80           Operating position         normal         Vertical plan         Fixing         35mm DIN rail           Fixing         35mm DIN rail         18         max         Nm         1,8           Fixing         normal         Vertical plan         1,8         min         1,6         1,7         1,7         1         1,7         1         1,7         1         1,7         1         1,7         1				IEC / UL1077
Rated impulse withstand voltage Ulimp         kV         4           Rated operational voltage AC (IEC)         VAC         230/400           Rated current (In)         A         10           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.25           Ambient conditions         W         1.25           Operating temperature         min         °C         -40           Max altitude         max         °C         -40           Max altitude         max         °C         -40           Mechanical features         min         °C         -40           Operating position         normal         Vertical plan         Fixing         35mm DIN rail           Fixing         min         Nm         1.8           Fixing         min         Nm         1.8           Fixing         min         Nm         2           min         Inin         1.7         2           Terminals tool         min         1.7         2           Conductor section         min				
Rated operational voltage AC (IEC)         VAC         230/400           Rated frequency         Hz         50/60           Rated current (In)         A         10           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.25           Ambient conditions         W         1.25           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         normal         vertical plan           Tightening torque for terminals         min         lim         1.8           max         Nm         2         1.8           max         lim         1.7         7           Terminals tool         min         min         min         min         min         min <td< td=""><td>Rated insulation voltage Ui IEC/EN</td><td></td><td>V</td><td>440</td></td<>	Rated insulation voltage Ui IEC/EN		V	440
Rated frequency         Hz         50/60           Rated current (In)         A         10           Tripping curve         C         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.25           Ambient conditions         min         °C         -40           Operating temperature         min         °C         -40           Max         °C         -40         -40	Rated impulse withstand voltage Uimp		kV	4
Rated current (in)         A         10           Tripping curve         C           Short circuit rating (IEC)         KA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.25           Ambient conditions           Operating temperature           min         °C         -40           max         °C         +70           Storage temperature           Max altitude         min         °C         -40           Max altitude         m         2000           Mechanical features         Operating position         vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         2           Terminals tool         min         1bin         16         16           max         min         1mm         1mm <th< td=""><td>Rated operational voltage AC (IEC)</td><td></td><td>VAC</td><td>230/400</td></th<>	Rated operational voltage AC (IEC)		VAC	230/400
Tripping curve         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         1.25           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         1.7.7           Terminals tool         min         lbin         17.7           Terminals tool         min         min         mm         1.7.7           Terminals tool         min         min         1.7.7         1.7.7           Terminals tool         min         min         1.7.7         1.7.7         1.7.7         1.7.7         1.7.7         1.7.7         1.7.7         1.7.7         1.7.7         1.7.7         1.7.7         1.7.7 <td< td=""><td>Rated frequency</td><td></td><td>Hz</td><td>50/60</td></td<>	Rated frequency		Hz	50/60
Short circuit rating (IEC)         kA         10           Electrical life         cycles         100000           Power dissipation per pole max         W         1.25           Ambient conditions	Rated current (In)		Α	10
Electrical life         cycles         10000           Power dissipation per pole max         W 1.25           Amblent conditions         Storage temperature           min orange temperature         min orange temperature         min orange temperature         min orange temperature           Max altitude         m 2000           Mechanical features         Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min loin loin loin loin loin loin loin lo	Tripping curve			С
Power dissipation per pole max	Short circuit rating (IEC)		kA	10
Ambient conditions	Electrical life		cycles	10000
Operating temperature         min max of colspan="4">of colspan="4	Power dissipation per pole max		W	1.25
Minimax   C   40 max   C   470 max   C   480 max   C   4	Ambient conditions			
Storage temperature         max         °C         470           Storage temperature         min         °C         -40           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         min         min         14           Mechanical life         cycles         20000           Weight         g         345           Frontal IP degree         IP20	Operating temperature			
Storage temperature		min	°C	-40
Max altitude         min max         °C +80           Max altitude         m 2000           Mechanical features           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min max         Nm 2 max           In max         Nm 2 max         16 max           In max         In max         17.7           Terminals tool         p 2 2           Conductor section         min max         mm² 35           AWG/Kcmil         min max         14 max           AWG/Kcmil         min max         6           Mechanical life         cycles         20000           Weight         g 345           Frontal IP degree         IP20		max	°C	+70
Max altitude         max         °C         +80           Mechanical features           Operating position           Informal Prize of the position of the	Storage temperature			
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         2           min         lbin         16         3         2         3           Terminals tool         pz 2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2         2		min	°C	-40
Mechanical features           Operating position           Fixing         35mm DIN rail           Tightening torque for terminals           min Nm Nm 1.8 max Nm 2 max Nm 2 max Nm 2 max Nm 15in 16 max 1bin 17.7           Terminals tool         Pz 2           Conductor section           IEC         min mm² 1 max mm² 35           AWG/Kcmil         min 14 max 6           Mechanical life         cycles 20000           Weight         g 345           Frontal IP degree         IP20		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 1 nm² 35           AWG/Kcmil         min max mm² 35           AWG/Kcmil         min max nm² 6           Mechanical life         cycles 20000           Weight         g 345           Frontal IP degree         IP20	Max altitude		m	2000
Fixing         35mm DIN rail           Tightening torque for terminals         min Mm	Mechanical features			
Fixing         35mm DIN rail           Tightening torque for terminals           min kmax         Nm         1.8 kmax         Nm         2 kmax         Nm         2 kmax         Nm         2 kmax         Nm         16 kmax         Nm         17.7         Terminals tool         Pz 2	Operating position			
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 1 mm² 35           AWG/Kcmil         min 14 max 6           Mechanical life         cycles 20000           Weight         g 345           Frontal IP degree         IP20		normal		Vertical plan
Mechanical life   Min   Min   1.8   max   Nm   2   min   lbin   16   max   lbin   17.7     Terminals tool   Pz 2   Terminals tool   Pz 2   Terminals   Terminals	Fixing			35mm DIN rail
Max   Nm   2   min   Ibin   16   max   Ibin   17.7	Tightening torque for terminals			
min min min mm² 15 max         16 max         16 max         15 max         17.7         17.7         17.7         17.7         17.7         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2         18.2 <td></td> <td>min</td> <td>Nm</td> <td>1.8</td>		min	Nm	1.8
Terminals tool		max	Nm	2
Terminals tool		min	Ibin	16
Conductor section   IEC     min mm²   1   max mm²   35		max	Ibin	17.7
IEC	Terminals tool			Pz 2
Mechanical life         cycles         20000           Weight         g         345           Frontal IP degree         IP20	Conductor section			
AWG/Kcmil         max         mm²         35           min max         14         6           Mechanical life         cycles         20000           Weight         g         345           Frontal IP degree         IP20	IEC			
AWG/Kcmil           min max         14 max         6           Mechanical life         cycles         20000           Weight         g         345           Frontal IP degree         IP20		min	mm²	
min max         14 max           Mechanical life         cycles         20000           Weight         g         345           Frontal IP degree         IP20		max	mm²	35
Mechanical life         cycles         20000           Weight         g         345           Frontal IP degree         IP20	AWG/Kcmil			
Mechanical lifecycles20000Weightg345Frontal IP degreeIP20		min		
Weight g 345 Frontal IP degree IP20		max		
Frontal IP degree IP20			cycles	
			g	
Pollution degree 2				
	Pollution degree			2



## **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)