

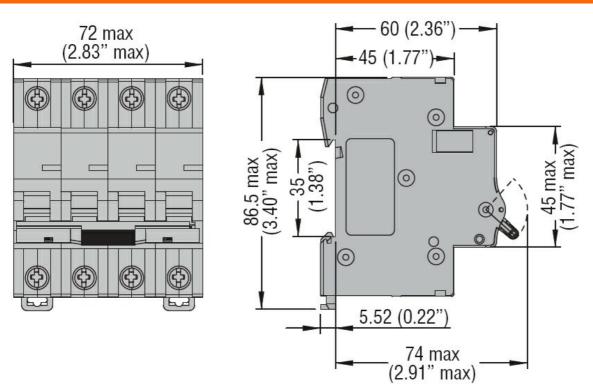


Product type designation         P1 MB           Number of poles         4P           Number of poles         4P           Number of poles         4P           Number of DIN modules         4           Compliance         IEC / UL1077           Electrical features         8           Rated insulation voltage UI IEC/EN         V         440           Rated insulation voltage UI IEC/EQ         VAC         230/400           Rated operational voltage AC (IEC)         VA         4           Rated operational voltage AC (IEC)         VA         4           Rated frequency         Hz         50/60           Rated current (In)         A         50           Tripping curve         C         S0/60           Storage torper pole max         W         3.5           Anthenet conditions         W         3.5           Operating temperature         min         °C         -40           max         °C         +70         Storage temperature         min         °C         -40           Max altitude         m         2000         Metchanical features         -2000         Metchanical features         -2000           Coperating position         inf         <	Product designation			Miniature circuit
Number of Dieles         4P           Number of DIN modules         4           Compliance         IEC / UL1077           Electrical features         V         440           Rated insulation voltage Uil EC/EN         V         440           Rated insulation voltage Uil EC/EN         V/         4           Rated insulation voltage Uil EC/EN         V/         4           Rated operational voltage UIInp         K/         4           Rated insulation voltage AC (IEC)         V/AC         230/400           Rated current (In)         A         50         5           Tripping curve         C         Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000         Power dissipation per pole max         W         3.5           Ambient conditions         Operating temperature         min         *C         +40           Max altitude         m         2000         Mechanical features         ************************************	Ĵ			· · ·
Number of DIN modules         4           Compliance         IEC / ULI 1077           Rated insulation voltage Uinp         V         440           Rated insulation voltage Uinp         KV         4           Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage AC (IEC)         VAC         230/400           Rated frequency         Hz         50/60           Rated operational voltage AC (IEC)         VAC         230/400           Rated operational voltage AC (IEC)         VAC         230/400           Rated frequency         Hz         50/60           Rated operational voltage AC (IEC)         KA         10           Electrical IIfe         cycles         10000           Power dissipation per pole max         W         3.5           Ambient conditions         W         3.5           Operating temperature         min         °C         -40           max         °C         +70         Storage temperature         min         °C         -40           Max altitude         m         2000         Mechanical features         Operating position         Fixing         35mm DIN rail           Tightening torque for terminals         IEC         <				
Compliance         IEC / UL1077           Electrical features         v         440           Rated involution voltage UI IEC/EN         V         440           Rated involution voltage UI IEC/EN         VAC         230/400           Rated frequency         Hz         50/60           Rated requency         Hz         50/60           Rated current (In)         A         50           Tripping curve         C         Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000         Power dissipation per pole max         W         3.5           Ambient conditions         min         °C         -40         max         °C         +70           Storage temperature         min         °C         -40         max         °C         +80           Max altitude         m         2000         max         °C         +80           Max altitude         m         2000         min< °C	•			
Electrical features         V         440           Rated insulation voltage Uimp         KV         4           Rated operational voltage AC (IEC)         VAC         230/400           Rated frequency         Hz         50/60           Rated corrent (In)         A         50           Tripping curve         C         Short circuit rating (IEC)         KA         10           Electrical life         cycles         10000         Power dissipation per pole max         W         3.5           Ambient conditions         W         3.5         C         +70           Storage temperature         min         °C         +40         max         °C         +70           Storage temperature         min         °C         -40         max         °C         +80           Max altitude         max         °C         +40         max         °C         +70           Storage temperature         min         °C         -40         max         °C         +40           Max altitude         max         °C         +40         max         ?C         +40           Max altitude         max         °C         +40         max         ?C         +40 <td< td=""><td></td><td></td><td></td><td></td></td<>				
Rated insulation voltage Ui IEC/EN         V         440           Rated impulse withstand voltage Uimp         KV         4           Rated operational voltage AC (IEC)         VAC         230/400           Rated frequency         Hz         50/60           Rated frequency         KA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         3.5           Ambient conditions         W         3.5           Operating temperature         min         °C         -40           max         °C         -40         max         °C         -40           Max altitude         m         2000         Mechanical features         min         NM         2      <				IEC / UL1077
Rated impulse withstand voltage Uimp         kV         4           Rated operational voltage AC (IEC)         VAC         230/400           Rated frequency         Hz         50/60           Rated requency         Hz         50/60           Rated current (In)         A         50           Tripping curve         C         Short circuit rating (IEC)         kA           Electrical life         cycles         10000           Power dissipation per pole max         W         3.5           Ambient conditions         W         3.5           Operating temperature         min         °C         -40           max<				4.4.0
Rated operational voltage AC (IEC)         VAC         230/400           Rated frequency         Hz         50/60           Rated current (In)         A         50           Tripping curve         C         Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000         Power dissipation per pole max         W         3.5           Ambient conditions         0         max         °C         +70           Storage temperature         min         °C         -40           max         °C         +70         Storage temperature           Max altitude         m         2000         Mechanical features           Operating position         max         °C         +80           Max altitude         m         2000         Mechanical features           Operating position         min         Nm         1.8           Fixing         35mm DIN rail         117.7           Terminals tool         P2 2         P2 2           Conductor section         IEC         min         min           IEC         min         min         14           max         6         Mechanical life         20000				
Rated frequency         Hz         50/60           Rated current (In)         A         50           Tripping curve         C         Sont circuit rating (IEC)         kA         10           Electrical life         cycles         10000         Power dissipation per pole max         W         3.5           Ambient conditions         Operating temperature         min         °C         -40           max         °C         -40         max         °C         -40           Max altitude         max         °C         -40         max         °C         -40           Mechanical features         min         °C         -40         max         °C         -40           Max altitude         max         °C         -40         max         °C         +80           Max altitude         max         °C         -40         max         °C         +80           Mechanical features         min         max         °C         +80         °C         >           Operating position         normal         Vertical plan         °C         min         Nm         1.8         max         Nm         1.8         max         Nm         1.8         max <td< td=""><td></td><td></td><td></td><td></td></td<>				
Rated current (in)         A         50           Tripping curve         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         3.5           Ambient conditions         W         3.5           Operating temperature         min         °C         -40           max         °C         +70         Storage temperature         min         °C         -40           Max altitude         max         °C         +80         Max altitude         max         2000           Mechanical features         Operating position         operating position         Somm DIN rail         Tightening torque for terminals         35mm DIN rail           Fixing         35mm DIN rail         16         max         Nm         2           Tightening torque for terminals         min         Nm         1.8         max         Nm         2           Conductor section         IEC         min         min         16         max         6           Mechanical life         cycles         20000         Weight         6         Mechanical life         660				
Tripping curve         C           Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         3.5           Ambient conditions         W         3.5           Operating temperature         min         °C         -40           max         °C         -40         max         °C         -40           Max altitude         min         °C         -40         max         °C         +80           Max altitude         max         °C         +80         Max altitude         max         °C         +80           Max altitude         moreal         Vertical plan         Storage temperature         2000         Mechanical features         00000         00000         00000				
Short circuit rating (IEC)         kA         10           Electrical life         cycles         10000           Power dissipation per pole max         W         3.5           Ambient conditions         min         °C         -40           Operating temperature         min         °C         -40           Max altitude         min         °C         -40           Max altitude         max         °C         +70           Storage temperature         min         °C         -40           Max altitude         max         °C         +80           Max altitude         max         °C         +80           Max altitude         model         Vertical plan           Fixing         35mm DIN rail         35mm DIN rail           Tightening torque for terminals         min         1.8           max         Nm         2         min           Max altitude         Pz 2         2         2           Conductor section         IEC         min         min         1.4           max         min         14         max         6           Mechanical life         cycles         20000         20000         2000 <t< td=""><td></td><td></td><td>A</td><td></td></t<>			A	
Electrical life         cycles         10000           Power dissipation per pole max         W         3.5           Ambient conditions         min         °C         -40           Operating temperature         min         °C         -40           max         °C         +70         Storage temperature         min         °C         -40           Max altitude         max         °C         +80         max         °C         +80           Max altitude         m         2000         mex         %C         +80           Max altitude         m         2000         35mm DIN rail         Tightening torque for terminals         min         In         1.8         max         Nm         2         min         Ibin         16         max         Nm         2         2         Conductor section         Fizing         35         35         35         35         35         35         35         35 <td></td> <td></td> <td></td> <td></td>				
Power dissipation per pole max         W         3.5           Ambient conditions         min         °C         -40           Operating temperature         min         °C         -40           max         °C         +70				
Ambient conditions           Operating temperature         min         °C         -40           max         °C         +70           Storage temperature         min         °C         -40           max         °C         +80         max         °C         +80           Max alitude         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           Tightening torque for terminals         min         Nm         1.8         max         Nm         2         min         Ibin         17.7           Terminals tool         P2 2         P2 0         P2 2         P2 0         P2 2         P2 0         P2 2         P2 0         P2 2				
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         m         2000           Fixing         35mm DIN rail         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         min         Ibin         16           max         Ibin         16         max         max         1.7           Terminals tool         P2 2         P2 2         Conductor section         P2 2         Conductor section         P2 2         Conductor section         IEC         min         max         mm²         35           AWG/Kcmil         min         14         max         6         Mechanical life         cycles         20000           Weight         g         460         Frontal IP degree         IP20         IP20         IP20			W	3.5
min         °C         -40           max         °C         +70           Storage temperature         min         °C         +70           Max altitude         min         °C         -40           Max altitude         m         2000         max         °C         +80           Max altitude         m         2000         mechanical features         0         9         400         18         18         18         18         18         18         18         18         18         18         18         16         17         7				
max         °C         +70           Storage temperature         min         °C         -40           max         °C         +80           Max attitude         max         °C         +80           Machanical features         mormal         2000           Operating position         normal         Vertical plan           Fixing         35mm DIN rail         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         min         lbin         16           max         Ibin         16         max         lbin         17.7           Terminals tool         Pz 2         Pz 2         Conductor section         IEC         min <mm²< td="">         1           McAnarcal life         min         14         max         6           Mechanical life         cycles         20000         Velight         6           Velight         g         460         Frontal IP degree         IP20</mm²<>	Operating temperature			
Storage temperature         min         °C         -40 max         °C         +80           Max altitude         m         2000         m         2000           Mechanical features         m         2000         m         2000           Operating position         normal         Vertical plan         1           Fixing         35mm DIN rail         35mm DIN rail         18           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         min         16           max         Nm         2         min         16           max         Ibin         16         max         Ibin         17.7           Terminals tool         pz 2         2         Conductor section         Pz 2         2           Conductor section         IEC         min         mm²         1         max         6           Mechanical life         cycles         20000         min         14         max         6           Mechanical life         cycles         20000         Quight         g         460         1920		min		
min         °C         -40 max           Max altitude         m         2000           Mechanical features         m         2000           Operating position         normal         Vertical plan           Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm           min         Nm         1.8           max         Nm         2           min         Ibin         16           max         Ibin         17.7           Terminals tool         Pz 2           Conductor section         Pz 2           Conductor section         IEC         min         mm²           Max         Mm²         35         MG/Kcmil           min         14         max         6           Mechanical life         cycles         20000         Veight           Veight         g         460         1P20		max	°C	+70
max         °C         +80           Max attitude         m         2000           Mechanical features         Operating position         normal         Vertical plan           Fixing         35mm DIN rail         35mm DIN rail           Tightening torque for terminals         min         Nm         2           min         Nm         2         min         Ibin         16           max         Nm         2         min         Ibin         17.7           Terminals tool         Pz 2         Conductor section         Pz 2         Conductor section         IEC         min         mm²         35.           AWG/Kcmil         min         14         max         6         Mechanical life         cycles         20000           Weight         g         460         Frontal IP degree         IP20         IP20         IP20	Storage temperature			
Max altitude         m         2000           Mechanical features         Operating position         normal         Vertical plan           Fixing         35mm DIN rail         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         min         Ibin         16           max         Nm         2         min         Ibin         16           Terminals tool         Pz 2         Pz		min	°C	-40
Mechanical features         Operating position       normal       Vertical plan         Fixing       35mm DIN rail         Tightening torque for terminals       min       Nm       1.8         max       Nm       2       min       Ibin       16         max       Ibin       16       max       Ibin       17.7         Terminals tool       Pz 2       Pz 2       Conductor section       IEC       min       mm²       1         AWG/Kcmil       min       14       max       6       Mechanical life       cycles       20000         Weight       g       460       Frontal IP degree       IP20       IP20		max	°C	+80
Operating position       normal       Vertical plan         Fixing       35mm DIN rail         Tightening torque for terminals       min       Nm       1.8         max       Nm       2       min       Ibin       16         max       Ibin       16       max       Ibin       17.7         Terminals tool       Pz 2       Pz 2       Conductor section       Pz 2         Conductor section       IEC       min       mm²       35         AWG/Kcmil       min       14       max       6         Mechanical life       cycles       20000       2000         Weight       g       460       Frontal IP degree       IP20	Max altitude		m	2000
normal     Vertical plan       Fixing     35mm DIN rail       Tightening torque for terminals     min     Nm     1.8       max     Nm     2     min     lbin     16       max     Ibin     16     max     lbin     17.7       Terminals tool     Pz 2     Conductor section     Pz 2       IEC     min     mm²     1       Max     mm²     35       AWG/Kcmil     min     14       max     6       Mechanical life     cycles     20000       Weight     g     460       Frontal IP degree     IP20	Mechanical features			
Fixing         35mm DIN rail           Tightening torque for terminals         min         Nm         1.8           max         Nm         2         min         Ibin         16           max         Ibin         16         max         Ibin         17.7           Terminals tool         Pz 2         Pz	Operating position			
Tightening torque for terminals         min         Nm         1.8           max         Nm         2         min         Ibin         16           max         Ibin         16         max         Ibin         17.7           Terminals tool         Pz 2		normal		Vertical plan
min         Nm         1.8           max         Nm         2           min         Ibin         16           max         Ibin         17.7           Terminals tool         Pz 2           Conductor section         IEC	Fixing			35mm DIN rail
max         Nm         2           min         Ibin         16           max         Ibin         17.7           Terminals tool         Pz 2           Conductor section         IEC         min         mm²         1           AWG/Kcmil         min         mm²         35         1           AWG/Kcmil         min         14         6           Mechanical life         cycles         20000         6           Weight         g         460         1P20	Tightening torque for terminals			
min         Ibin         16           max         Ibin         17.7           Terminals tool         Pz 2           Conductor section         IEC           IEC         min         mm²           AWG/Kcmil         35           AWG/Kcmil         6           Mechanical life         cycles         20000           Weight         g         460           Frontal IP degree         IP20		min	Nm	1.8
max         Ibin         17.7           Terminals tool         Pz 2           Conductor section         IEC           Min         mm²         1           max         mm²         35           AWG/Kcmil         min         14           max         6         6           Mechanical life         cycles         20000           Weight         g         460           Frontal IP degree         IP20		max	Nm	2
Terminals tool         Pz 2           Conductor section         IEC           min         mm²         1           max         mm²         35           AWG/Kcmil         min         14           max         6         6           Mechanical life         cycles         20000           Weight         g         460           Frontal IP degree         IP20		min	Ibin	16
Conductor section         IEC         min         mm²         1           max         mm²         35           AWG/Kcmil         min         14           max         6           Mechanical life         cycles         20000           Weight         g         460           Frontal IP degree         IP20		max	Ibin	17.7
IEC         min         mm²         1           max         mm²         35           AWG/Kcmil         min         14           max         6           Mechanical life         cycles         20000           Weight         g         460           Frontal IP degree         IP20         IP20	Terminals tool			Pz 2
min         mm²         1           max         mm²         35           AWG/Kcmil         min         14           max         6           Mechanical life         cycles         20000           Weight         g         460           Frontal IP degree         IP20	Conductor section			
max         mm²         35           AWG/Kcmil         min         14           max         6           Mechanical life         cycles         20000           Weight         g         460           Frontal IP degree         IP20	IEC			
AWG/Kcmil       min       14         max       6         Mechanical life       cycles       20000         Weight       g       460         Frontal IP degree       IP20		min	mm²	1
min max14 6Mechanical lifecycles20000Weightg460Frontal IP degreeIP20		max	mm²	35
max6Mechanical lifecycles20000Weightg460Frontal IP degreeIP20	AWG/Kcmil			
Mechanical lifecycles2000Weightg460Frontal IP degreeIP20		min		14
Weightg460Frontal IP degreeIP20		max		6
Frontal IP degree IP20	Mechanical life		cycles	20000
Frontal IP degree IP20	Weight		g	460
				IP20
	Pollution degree			

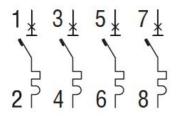
P1MB4PC50



## Dimensions



## Wiring diagrams



Certifications and cor	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				
		FC000040		

## ETIM 8.0

EC000042 -Miniature circuit breaker (MCB)