



Product designation     Final mature circuit breaker (MCR)       Product type designation     1 P4 M       Number of poles     1 P4 N       Number of DIN modules     1 EC       Compliance     IEC       Electrical features     V     440       Rated insulation voltage Uil EC/EN     V     40       Rated insulation voltage Vill EC/EN     VX     230       Rated frequency     NX     230       Rated frequency     XX     230       Rated frequency     XX     230       Rated current (In)     XX     230       Rated current (In)     XX     230       Rated prequency     XX     6       Short circuit rating (IEC)     XX     6       Electrical life     XX     6       Power dissipation per pole max     XX     6       Ambient conditions     XX     6       Storage temperature     min     XX     40       Max altitude     m     200       Mechanical features     XX     40       Fixing     XX <th></th> <th></th> <th></th> <th></th>				
Product type designation	Draduat designation			Miniature circuit
Number of DIN modules     1P+N       Number of DIN modules     1       Compliance     1EC       Electrical features	Product designation			breaker (MCB)
Number of DIN modules     1       Compliance     IEC       Electrical features     V     440       Rated insulation voltage Ui IEC/EN     V     40       Rated inpulse withstand voltage Uirip     kV     23       Rated prequency     Hz     50/60       Rated frequency     Rated prequency     C       Rated frequency     KA     6       Rated current (In)     A     13       Tripping curve     C     C       Short circuit rating (IEC)     KA     6       Electrical life     cycles     10000       Power dissipation per pole max     KA     6       Ambient conditions     W     1,69       Storage temperature     min     °C     40       Max altitude     m     200       Mechanical features     min     °C     40       Operating position     mormal     V     vertical plan       Existing     min     Nm     1,1       Mechanical features     min     Nm     1,2	Product type designation			P1 MB
Compliance     IEC       Electrical features     V     440       Rated insulation voltage Uir IEC/EN     xV     4       Rated impulse withstand voltage Uirip     kV     4       Rated operational voltage AC (IEC)     vAC     230       Rated droperational voltage AC (IEC)     A     13       Rated current (In)     A     13       Tripping curve     x     6       Short circuit rating (IEC)     xA     6       Electrical life     y     1,69       Power dissipation per pole max     w     1,69       Ambient conditions     w     1,69       Operating temperature     min     °C     -40       Manual tirude     m     2,00     -40       Max altitude     m     2,00     -40       Mechanical features     mon     2,00     -40       Operating position     m     y     4,00       Fixing     m     y     1,1       Fixing     m     y     1,2       Operating torque for terminals     <	Number of poles			1P+N
Electrical features     V     440       Rated insulation voltage Uinpp     kV     4       Rated operational voltage AC (IEC)     VAC     230       Rated depending withstand voltage AC (IEC)     VAC     230       Rated operational voltage AC (IEC)     VAC     230       Rated current (In)     A     13       Tripping curve     C     C       Short circuit rating (IEC)     kA     6       Electrical life     cycles     10000       Power dissipation per pole max     W     1.69       Ambient conditions     W     1.69       Operating temperature     min     °C     -40       max     °C     +70       Storage temperature     min     °C     -40       Mechanical features     mm     2000       Operating position     normal     Vertical plan       Fixing     35mm DIN rail       Fixing     35mm DIN rail       Tightening torque for terminals     min     Nm     1.2       min     1bin     9.7     1.2 <td>Number of DIN modules</td> <td></td> <td></td> <td>1</td>	Number of DIN modules			1
Rated insulation voltage Uil EC/EN     V     440       Rated impulse withstand voltage Uimp     kV     4       Rated operational voltage AC (IEC)     VAC     230       Rated frequency     Hz     50/60       Rated current (In)     A     13       Tripping curve     C     C       Short circuit rating (IEC)     kA     6       Electrical life     cycles     10000       Power dissipation per pole max     W     1.69       Ambient conditions     W     1.69       Operating temperature     min     °C     -40       Max altitude     m     2000       Max altitude     m     2000       Mechanical features     min     °C     +40       Operating position     mormal     Vertical plan       Fixing     35mm DIN rail       Tightening torque for terminals     min     Nm     1.1       max     Nm     1.2     nm     1.0       Fixing     min     Nm     1.1     nm     1.0     1.0     1.	Compliance			IEC
Rated impulse withstand voltage Uimp     kV     4       Rated operational voltage AC (IEC)     VAC     230       Rated perational voltage AC (IEC)     VAC     230       Rated drequency     Hz     50x60       Rated current (In)     A     13       Tripping curve     C     C       Short circuit rating (IEC)     kA     6       Electrical life     cycles     10000       Power dissipation per pole max     W     1.69       Ambient conditions       Operating temperature       min     °C     -40       Max altitude     max     °C     +80       Max altitude     max     c     +80       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     2       Conductor section     min <td< td=""><td>Electrical features</td><td></td><td></td><td></td></td<>	Electrical features			
Rated operational voltage AC (IEC)     VAC     230       Rated frequency     Hz     50/60       Rated current (In)     A     13       Tripping curve     C     C       Short circuit rating (IEC)     KA     6       Electrical life     cycles     10000       Power dissipation per pole max     W     1.69       Ambient conditions       Operating temperature       min     °C     -40       max     °C     -40 </td <td>Rated insulation voltage Ui IEC/EN</td> <td></td> <td>V</td> <td>440</td>	Rated insulation voltage Ui IEC/EN		V	440
Rated frequency     Hz     50/60       Rated current (In)     A     13       Tripping curve     C     C       Short circuit rating (IEC)     kA     6       Electrical life     cycles     10000       Power dispation per pole max     W     1.69       Ambient conditions     min     °C     -40       Coperating temperature     min     °C     -40       Max     °C     -40     -40       max     "C     -40     -40 <td>Rated impulse withstand voltage Uimp</td> <td></td> <td>kV</td> <td>4</td>	Rated impulse withstand voltage Uimp		kV	4
Rated current (In)     A     13       Tripping curve     C       Short circuit rating (IEC)     kA     6       Electrical life     cycles     10000       Power dissipation per pole max     W     1.69       Ambient conditions       Operating temperature       min     °C     -40       max     °C     +70       Storage temperature       min     °C     -40       max     °M     1.1 <td>Rated operational voltage AC (IEC)</td> <td></td> <td>VAC</td> <td>230</td>	Rated operational voltage AC (IEC)		VAC	230
Tripping curve     C       Short circuit rating (IEC)     kA     6       Electrical life     cycles     10000       Power dissipation per pole max     W     1.69       Ambient conditions     min     °C     -40       Operating temperature     min     °C     -40       Max     °C     +70       Storage temperature     min     °C     -40       Max attitude     m     2000       Mechanical features     vertical plan     1       Operating position     normal     vertical plan       Fixing     35mm DIN rail       Tightening torque for terminals     min     Nm     1.1       max     Nm     1.2     nmin     10.6       Terminals tool     pz 2     2       Conductor section     EEC     min     nm     16       AWG/Kcmil     min     nm     14       AWG/Kcmil     min     nm     14       Mechanical life     cycles     20000       Weight     g	Rated frequency		Hz	50/60
Short circuit rating (IEC)     kA     6       Electrical life     cycles     100000       Power dissipation per pole max     W     1.69       Ambient conditions     Operating temperature     min °C -40 max °C +70       Storage temperature     min °C -40 max °C +80       Max altitude     min normal     Vertical plan       Max altitude     mormal     Vertical plan       Fixing     35mm DIN rail       Tightening torque for terminals     min Nm 1.1       max     min lbin 9.7       max     Ibin 10.6       Terminals tool     p 2       Conductor section     IEC     min mm mm² 1     mm² 16       AWG/Kcmil     min mm² 14     max     min mm² 14       Mechanical life     cycles     20000       Weight     Jepo	Rated current (In)		Α	13
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 occ occ occ occ occ occ occ occ oc	Power dissipation per pole max		W	1.69
Minimax	Ambient conditions			
Storage temperature     max     °C     +70       Storage temperature       Max altitude     min     °C     +80       Max altitude     max     °C     +80       Mechanical features       Operating position     normal     Vertical plan       Fixing     35mm DIN rail       Tightening torque for terminals       min     Nm     1.1     normal     Nm     1.2     normal     Post colspan="2">p.2       Terminals tool     EC     min     nm     1.0.6     p.2     P.	Operating temperature			
Storage temperature     min max °C - 40 nmax °C + 80       Max altitude     m 2000       Mechanical features       Operating position     normal     Vertical plan       Eixing     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     p 2       Conductor section       IEC     min mm² mm² 1 nmx mm² 16     AWG/Kcmil     min mx 14 nmx 6     Mechanical life     cycles 20000     Weight     g 115     Frontal IP degree     IP20     IP20     Mechanical life     cycles 20000     Weight     g 115     Frontal IP degree     IP20     Frontal IP degree     IP20     IP20     IP20     Mechanical life     cycles 20000     Weight     IP20     IP20     IP20     IP20     IP20     IP20				



**ENERGY AND AUTOMATION** 

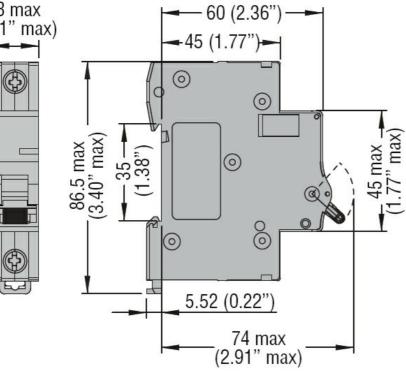
## Grid distance as per Annex H.1 of IEC/EN60898-1 standard

mm

60



**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)