RCD/MCB combination, 40 A, 30 mA, MCB trip characteristic: B, 1p+N, RCD trip characteristic: AC

Part no. FRBMM-B40/1N/003-G 170715

Similar to illustration

| General specifications  |  |
|---|--|
| Product name  | Eaton Moeller series xEffect - FRBm6/M RCBO - residual-current circuit breaker with overcurrent protection |
| Part no.  | FRBMM-B40/1N/003-G   |
| EAN   | 4015081672868  |
| Product Length/Depth  | 80 millimetre  |
| Product height  | 75 millimetre  |
| Product width   | 35 millimetre  |
| Product weight  | 0.215 kilogram   |
| Compliances   | CE Marked<br>RoHS conform  |
| Certifications  | IEC 61373<br>CE<br>EN45545-2   |
| Product Tradename   | xEffect - FRBm6/M  |
| Product Type  | RCBO - Residual-current circuit breaker with overcurrent protection  |
| Product Sub Type  | None   |
| Delivery program  |  |
| Application   | Switchgear for industrial and advanced commercial applications   |
| Product range   | FRBmM  |
| Basic function  | Combined RCD/MCB devices   |
| Number of poles   | Single-pole + N  |
| Number of poles (protected)   | 1  |
| Number of poles (total)   | 2  |
| Tripping characteristic   | В  |
| Release characteristic  | В  |
| Rated current   | 40 A   |
| Fault current rating  | 0.03 A   |
| Sensitivity type  | AC current sensitive   |
| Туре  | RCBO   |
| Technical Data - Electrical   |  |
| Voltage type  | AC   |
| Voltage rating  | 240 V - 240 V  |
| Rated operational voltage (Ue) - max                                  | 240 V - 240 V  |
| Rated insulation voltage (Ui)   | 500 V  |
| Rated insulation voltage (Oi)  Rated impulse withstand voltage (Uimp) | 4 kV   |
| Rated fault currents of product range                                 |  |
| Impulse withstand current   | 10, 30, 100, 300 MilliAmpere   |
| ·   | Surge-proof, 3 kA  |
| Frequency rating  | 50 Hz  |
| Leakage current type  | AC   |
| Rated switching capacity  | 10 kA  |
| Rated switching capacity (IEC/EN 61009)                               | 10 kA  |
| Rated short-circuit breaking capacity (EN 60947-2)                    | 10 kA  |
| Rated short-circuit breaking capacity (EN 61009)                      | 10 kA  |
| Rated short-circuit breaking capacity (EN 61009-1)                    | 10 kA  |
| Rated short-circuit breaking capacity (IEC 60947-2)                   | 10 kA  |

| observed.  10.12 Electromagnetic compatibility  10.13 Mechanical function  Additional information  Current limiting class  Features  observed.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  3  Anti-nuisance tripping version   | Disconnection characteristic   | Short-time delayed   |
|--|--|--|
| Publishion degree  Tochnical Data - Mechanical  Width in number of model as spocings  2  Bulls in depth  Degree of protection  Commerchable conductor cross section look evan - min  Commerchable conductor cross section look evan - min  Commerchable conductor cross section look evan - min  Commerchable conductor cross section look wired - max  Z5 mm²  Commerchable conductor cross section look wired - min  Read operational current for specified heat dissipation (in)  40 A  Heat dissipation current dependent  9 W  Commerchable conductor cross section look wired - min  40 Y  Commerchable conductor cross section look wired - min  Ambient operating temperature - min  9 25 W  Commerchable conductor cross section look wired - min  Ambient operating temperature - min  9 25 W  Commerchable conductor cross section look wired - min  2 25 W  Commerchable conductor cross section look wired - min  2 25 W  Commerchable conductor of section look wired - min  2 26 W  Commerchable conductor cross section look wired - min  2 27 W  Commerchable conductor cross section look wired - min  2 28 W  Commerchable conductor of section look wired - min  2 29 W  Commerchable conductor of section look wired - min  2 29 W  Commerchable conductor of section look wired - min  2 29 W  Commerchable conductor of section look wired - min  2 20 W  Commerchable conductor of section look wired - min  2 21 W  Commerchable conductor of section look wired - min  2 22 W  Commerchable conductor of section look wired -  | Tripping   | · ·  |
| With in number of modular spacings  Bull-in digith  Dusine of protection  Connectable conductor cross section (solid-cony) -min  Connectable conductor cross section (multi-weed) -max  Design verification as per IEC/EN 61439 - technical date  Rand operational current for specified hast dissipation (multi-weed) -max  Equipment heat dissipation, current-dependent  Extra dissipation problems and the section of the se | Pollution degree   | 2  |
| Bulle-in depth Degree of protection Degree of protection Connectable conductor cross section (solid-coral - max Connectable conductor section cross section (solid-coral - max Connectable conductor cross section (solid-coral - max Connectable conductor cross section (solid-coral - max Connectable cross section cross section (solid-coral - max Connectable cross section cross section cross section cross section cross section conductors Connectable cross section | Technical Data - Mechanical  |  |
| Bull+in depth Degree of protection Degree of protection IP20 Connectable conductor cross section   solid-care -min Cannectable conductor   solid-care -min Cannectable conductor   solid-care -min Cannectable   solid-care -min Can | Width in number of modular spacings  | 2  |
| Connectable conductor cross section (solid-cord) - min   |  | 75.5 mm  |
| Connectable conductor cross section full-wired -nim Connectable conductor -nim Connectable conductor -nim Connectable cond | Degree of protection   | IP20   |
| Connectable conductor cross section (multi-wired) - min Connectable conductor cross section (multi-wired) - max  Design verification as per IEC/EN 61439 - technical data Rated operational current for specified her and sissipation (no Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, current-dependent OW Antibient operating temperature - max Antibient operating temperature - min Design verification as per IEC/EN 61439  10.2.2 Grosson resistance Meets the product standard's requirements. 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.2 Resist of insul, mat to abnormal heat/fine by internal elect. effects 10.2.3.2 Resist of insul, mat to abnormal heat/fine by internal elect. effects 10.2.3 Resistance to ultra-violet (UV) radiation 10.2.4 Resistance to to ultra-violet (UV) radiation 10.2.5 Uring 10.2.5 | Connectable conductor cross section (solid-core) - min                           | 1 mm²  |
| Design verification as per IEC/EN 51439 - technical data Rated operational current for specified heat dissipation (In)  40 A  Rated operational current for specified heat dissipation (In)  40 A  Static heat dissipation per pole, current-dependent  5 Static heat dissipation, con-current-dependent  8 2 W  Static heat dissipation, non-current-dependent  8 2 W  Static heat dissipation, capacity  Ambient operating temperature - min  Pesign verification as per IEC/EN 61439  10.2.2 Corresion resistance  10.2.3.1 Verification as per IEC/EN 61439  10.2.2 Corresion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.1 Verification of thermal stability of enclosures  10.2.4 Resistance to ultra-violet (UVI radiation  10.2.5 Static of insul. mat. to abnormal healt/in by internal elect. offects  10.2.6 Meets the product standard's requirements.  10.2.7 Inscriptions  10.2.8 Meets the product standard's requirements.  10.2.9 Degree of protection of assemblies  10.2.1 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Internal electrical circuits and connections  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Timernal electric alicrouits and connections  10.9 Timernal electric alicrouits and c | Connectable conductor cross section (solid-core) - max                           | 25 mm²   |
| Design verification as per IEC/EN 61439 - technical data Rated operational current for specified heat dissipation (in) Heat dissipation per pole, current-dependent 2 2 W Static heat dissipation, current-dependent 3 2 W Ambient operating temperature - max 40 °C Ambient operating temperature - max 40 °C Ambient operating temperature - min  Design verification as per IEC/EN 61439  10.2.2 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.1 Sesiest of insul. mat to abnormal head/fire by internal elect. effects 10.2.4 Resistance to ultra-violet (UV) radiation 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.6 Dees not apply, since the entire switchgear needs to be evaluated. 10.2.6 Incorporation of switching devices and components 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Internal electrical circuits and comercions 10.8 Connections for external conductors 10.9 Temperature rise 10.9 A Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Deep and apply intered the product standard is requirements. 10.14 Cennections for external conductors 10.15 Temperature rise 10.16 Temperature rise 10.17 Temperature rise 10.18 Temperature rise 10.19 Temperature rise responsibility 10.19 Temperature rise 10.10 Temperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Temperature rise 10.15 Temperature rise 10.15 Temperature rise 10.16 Temperature rise 10.17 Temperature rise 10.18 Temperature rise 10.19 Temperature rise 10.19 Temperature rise 10.19 Temperat | Connectable conductor cross section (multi-wired) - min                          | 1 mm <sup>2</sup>  |
| Rated operational current for specified heat dissipation (In)  Heat dissipation, per pole, current-dependent  Equipment heat dissipation, current-dependent  Heat dissipation, current-dependent  Heat dissipation, current-dependent  Heat dissipation, current-dependent  Heat dissipation, capacity  Ambient operating temperature - min  Pesign verification as per IEC/EN 61439  10.2.2 Organic presistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.3 Resist of insul. mat. to abnormal heat/fire by internal elect effects  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  The panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  The panel builder's responsibility.  The panel builder's responsibility.  The panel builder's responsibility.  The panel bu | Connectable conductor cross section (multi-wired) - max                          | 25 mm <sup>2</sup>   |
| Heat dissipation per pole, current-dependent Equipment heat dissipation, current-dependent Static heat dissipation, current-dependent OW Ambient operating temperature - max Ambient operating temperature - max Ambient operating temperature - min Obsign verification as per IEC/EN 61439  10.2.2 Corrosion resistance Meets the product standard's requirements. 10.2.3.1 Vorification of thermal stability of enclosures Meets the product standard's requirements. 10.2.4 Resistance to ultra-violet (UV) radiation Meets the product standard's requirements. 10.2.5 Lifting Obes not apply, since the entire switchgear needs to be evaluated. 10.2.5 Lifting Obes not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions Meets the product standard's requirements. 10.8 Dees not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.8 Dees not apply, since the entire switchgear needs to be evaluated. 10.4 Clearances and creepage distances Meets the product standard's requirements. 10.8 Connections for external conductors 10.9 Incorporation of switching devices and components Does not apply, since the entire switchgear needs to be evaluated. 10.7 Internal electrical circuits and connections 10.8 Connections for external conductors 10.9 Romero-frequency electric strongth 10.9 Power-frequency electric strongth 10.9 Power-frequency electric strongth 10.9 Power-frequency electric strongth 10.9 Power-frequency electric strongth 10.1 Short-circuit rating 10.1 Electromagnetic compatibility 10.1 Electromagnetic compatibility 10.1 Short-circuit rating 10.10 Emperature rise 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.14 Mechanical function 10.15 Internal electrical circuits and connections 10.15 Internal electrical circuits and connections 10.16 Connections for the entire switchgear must observed. 10.17 Internal electrical circuits and connections 10.18 Connections  | Design verification as per IEC/EN 61439 - technical data                         |  |
| Equipment heat dissipation, current-dependent  Static heat dissipation, current-dependent  Heat dissipation capacity  Ambient operating temperature - max  Ambient operating temperature - max  Ambient operating temperature - max  Ambient operating temperature - min  2-25 °C  Design verification as per IEC/EN 61439  10.22 Corrosion resistance  10.23.1 Verification of thermal stability of enclosures  10.23.3 Resist of insul. mat to abnormal heat/fire by internal elect. effects  Meets the product standard's requirements.  10.23.3 Resist of insul. mat to abnormal heat/fire by internal elect. effects  Meets the product standard's requirements.  10.24. Resistance to ultra-violet (UV) radiation  10.25 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.27 Inscriptions  Meets the product standard's requirements.  10.3.0 longere of protection of assemblies  10.4 Clearances and creepage distances  Meets the product standard's requirements.  10.5 Incorporation of switching devices and components  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.4 Power-frequency electric strength  10.9.5 Power-frequency electric strength  10.9.4 Power-frequency electric strength  10.9.5 Internal electrical circuits and connections  10.7 Internal electrical circuits and connections  10.8 Internal electrical circuits and connections  10.9 Power-frequency electric strength  10.9 Power-frequency electric strength  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Electromagnetic compatibility  10.15 Short-circuit rating  10.16 Electromagnetic compatibility  10.17 Electromagnetic compatibility  10.18 Short-circuit rating  10.19 Short electrical circuits and connections for the switchgear must observed.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Shor | Rated operational current for specified heat dissipation (In)                    | 40 A   |
| Static heat dissipation, non-current-dependent Heat dissipation capacity  Ambient operating temperature - max  Ambient operating temperature - max  Ambient operating temperature - min  Design verification as per IEC/EN 61438  102.2 Correction resistance  102.3.1 Verification of thermal stability of enclosures  102.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  Meets the product standard's requirements.  102.4. Resistance to ultra-violet (UV) radiation  Meets the product standard's requirements.  102.5 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  102.7 Inscriptions  10.2.1 Inscriptions  10.3 Degree of protection of assemblies  10.3 Degree of protection of assemblies  10.4 Clearances and crepage distances  10.5 Instrail electrical circuits and connections  10.6 Connections for external conductors  10.7 Instrail electrical circuits and connections  10.8 Connections for external conductors  10.9 Instrail electrical circuits and connections  10.1 Instrail electrical circuits and connections  10.2 Instrail electrical circuits and connections  10.3 Instrail electrical circuits and connections  10.4 Electromagnetic compatibility.  10.5 The panel builder's responsibility.  10.6 Electromagnetic compatibility  10.7 Instrail electrical circuits and connections of the switchgear must observed.  10.1 Electromagnet | Heat dissipation per pole, current-dependent                                     | 0 W  |
| Static heat dissipation, non-current-dependent Heat dissipation capacity  Ambient operating temperature - max  Ambient operating temperature - max  Ambient operating temperature - min  Design verification as per IEC/EN 61439  10.22 Corrosion resistance  10.23.1 Verification of thermal stability of enclosures  10.23.3 Resist, of insul. mat. to abnormal heat/fire by internal elect. effects  Meets the product standard's requirements.  10.24 Resistance to ultra-violet (UV) radiation  Meets the product standard's requirements.  10.25 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  10.26 Mechanical impact  10.27 Inscriptions  10.30 Degree of protection of assemblies  10.40 Clearances and creepage distances  10.41 Clearances and creepage distances  10.43 Clearance and creepage distances  10.44 Clearances and creepage distances  10.55 Inscriptions  10.65 Inscriptions  10.76 Instrail electrical circuits and connections  10.86 Connections for external conductors  10.87 Instrail electrical circuits and connections  10.88 Connections for external conductors  10.99 Power-frequency electric strength  10.91 Temperature rise  10.94 Testing of enclosures made of insulating material  10.95 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder's responsibility.  10.94 Testing of enclosures made of insulating material  10.11 Short-circuit rating  List the panel builder's responsibility.  10.12 Electromagnetic compatibility  List the panel builder's responsibility.  10.14 Electromagnetic compatibility  List the panel builder's responsibility. The specifications for the switchgear must observed.  Additional information  Current limiting class  Features  Anti-nuisance tripping version   |  | 8.2 W  |
| Ambient operating temperature - max Ambient operating temperature - min  Design verification as per IEC/EN 61439  10.22 Corrosion resistance Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  In Standard of the switchgear needs to be evaluated.  In Titure all electrical circuits and connections  Is the panel builder's responsibility.  In Standard of the switchgear needs to be evaluated.  In the panel builder's responsibility.  In the panel b | Static heat dissipation, non-current-dependent                                   | 0 W  |
| Ambient operating temperature - min  Design verification as per IEC/EN 61439  10.22 Corrosion resistance  10.23.1 Verification of thermal stability of enclosures  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  10.25 Lifting  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  In the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  The panel builder's responsibility.  The panel builder's responsibility.  The panel builder's responsibility.  The panel builder's responsibility. The s | Heat dissipation capacity  | 0 W  |
| Design verification as per IEC/EN 61439  10.22 Corrosion resistance 10.2.3.1 Verification of thermal stability of enclosures 10.2.3.3 Resists of insul, mat, to abnormal heat/fire by internal elect, effects 10.2.4 Resistance to ultra-violet (IUV) radiation 10.2.5 Lifting 10.2.6 Meets the product standard's requirements. 10.2.5 Lifting 10.2.6 Mechanical impact 10.2.7 Inscriptions 10.3 Does not apply, since the entire switchgear needs to be evaluated. 10.2.7 Inscriptions 10.3 Degree of protection of assemblies 10.3 Degree of protection of assemblies 10.4 Clearances and creepage distances 10.5 Incorporation of switching devices and components 10.6 Incorporation of switching devices and components 10.7 Inscriptions 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.3 Teaguines withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function  Additional information Current limiting class Features Anti-nuisance tripping version  | Ambient operating temperature - max  | 40 °C  |
| 10.2.2 Corrosion resistance  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.1 Verification of thermal stability of enclosures  10.2.3.8 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3.0 Eagree of protection of assemblies  10.4 Clearances and creepage distances  10.4 Clearances and creepage distances  10.5 Incorporation of switching devices and components  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.1 Power-frequency electric strength  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Additional information  Current limiting class  Features  Anti-nuisance tripping version   | Ambient operating temperature - min  | -25 °C   |
| 10.2.3.1 Verification of thermal stability of enclosures  10.2.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.4 Clearances and creepage distances  10.5 Internal electrical circuits and connections  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Additional information  Current limiting class  Features  Meets the product standard's requirements.  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  In the panel builder's responsibility.  In the panel builder's responsibility. The specifications for the switchgear must observed.  Additional information  Current limiting class  Features  Anti-nuisance tripping version  | Design verification as per IEC/EN 61439  |  |
| 10.2.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects  10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.4 Clearances and creepage distances  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.1 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Current limiting class  Features  Meets the product standard's requirements.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  In the panel builder's responsibility.  Is the panel builder's responsibility.  The panel builder's responsibility.  The panel builder's responsibility. The specifications for the switchgear must observed.  Additional information  Current limiting class  Features  Anti-nuisance tripping version   | 10.2.2 Corrosion resistance  | Meets the product standard's requirements.   |
| 10.2.4 Resistance to ultra-violet (UV) radiation  10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.4 Clearances and creepage distances  10.5 Internal electrical circuits and connections  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Short-circuit rating  10.15 Mechanical function  Current limiting class  Features  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  In the panel builder's responsibility.  Is the panel builder's responsibility.  In the panel builder's resp | 10.2.3.1 Verification of thermal stability of enclosures                         | Meets the product standard's requirements.   |
| 10.2.5 Lifting  10.2.6 Mechanical impact  10.2.7 Inscriptions  Meets the product standard's requirements.  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.5 Incorporation of switching devices and components  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Current limiting class  Features  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Internal electrical circuits and connections  Is the panel builder's responsibility.  The panel builder's responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  In the devices.  In the device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Current limiting class  Features  Anti-nuisance tripping version  | 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | Meets the product standard's requirements.   |
| 10.2.6 Mechanical impact  10.2.7 Inscriptions  Meets the product standard's requirements.  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  Meets the product standard's requirements.  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Current limiting class  Features  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Is the panel builder's responsibility.  Is the panel builder is responsibility.  The panel builder is responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  Additional information  Current limiting class  Features  Anti-nuisance tripping version   | 10.2.4 Resistance to ultra-violet (UV) radiation                                 | Meets the product standard's requirements.   |
| 10.27 Inscriptions  10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9 Power-frequency electric strength  10.9.2 Power-frequency electric strength  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Current limiting class  Features  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder is responsibility.  Is the panel builder is responsibility. The specifications for the switchgear must observed.  In the panel builder's responsibility. The specifications for the switchgear must observed.  Additional information  Current limiting class  Features  Anti-nuisance tripping version   | 10.2.5 Lifting   | Does not apply, since the entire switchgear needs to be evaluated.                             |
| 10.3 Degree of protection of assemblies  10.4 Clearances and creepage distances  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Additional information  Current limiting class  Features  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  Additional information  Current limiting class  Anti-nuisance tripping version   | 10.2.6 Mechanical impact   | Does not apply, since the entire switchgear needs to be evaluated.                             |
| 10.4 Clearances and creepage distances  10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  Current limiting class  Meets the product standard's requirements.  Does not apply, since the entire switchgear needs to be evaluated.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder's responsibility.  Is the panel builder is responsibility.  The panel builder is responsibility.  Is the panel builder is responsibility.  The panel builder is responsibility. The specifications for the switchgear must observed.  In the panel builder's responsibility. The specifications for the switchgear must observed.  Additional information  Current limiting class  3  Features  Anti-nuisance tripping version   | 10.2.7 Inscriptions  | Meets the product standard's requirements.   |
| 10.6 Incorporation of switching devices and components  10.7 Internal electrical circuits and connections  10.8 Connections for external conductors  10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.14 Meditional information  Current limiting class  2 Is the panel builder's responsibility.  10.15 Is the panel builder's responsibility.  10.16 Is the panel builder's responsibility.  10.17 Is device meets the requirements, provided the information in the instruction leaflet (IL) is observed.   | 10.3 Degree of protection of assemblies  | Does not apply, since the entire switchgear needs to be evaluated.                             |
| 10.7 Internal electrical circuits and connections  1s the panel builder's responsibility.  10.8 Connections for external conductors  1s the panel builder's responsibility.  10.9.2 Power-frequency electric strength  1s the panel builder's responsibility.  10.9.3 Impulse withstand voltage  1s the panel builder's responsibility.  1s the panel builder's responsibility. The specifications for the switchgear must observed.  1s the panel builder's responsibility. The specifications for the switchgear must observed.  1s the panel builder's responsibility. The specifications for the switchgear must observed.  1s the panel builder's responsibility. The specifications for the switchgear must observed.  1s the panel builder's responsibility. The specifications for the switchgear must observed.  Additional information  Current limiting class  3  Features  Anti-nuisance tripping version  | 10.4 Clearances and creepage distances   | Meets the product standard's requirements.   |
| 10.8 Connections for external conductors 10.9.2 Power-frequency electric strength 10.9.3 Impulse withstand voltage 10.9.4 Testing of enclosures made of insulating material 10.10 Temperature rise 10.11 Short-circuit rating 10.12 Electromagnetic compatibility 10.13 Mechanical function 10.13 Mechanical function 10.14 Meditional information Current limiting class Features 10.15 the panel builder's responsibility. The specifications for the instruction list the panel builder's responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility 10.13 Mechanical function 2   | 10.6 Incorporation of switching devices and components                           | Does not apply, since the entire switchgear needs to be evaluated.                             |
| 10.9.2 Power-frequency electric strength  10.9.3 Impulse withstand voltage  10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  Current limiting class  10.19 Power-frequency electric strength  Is the panel builder's responsibility.  Is the panel builder is responsibility.  The panel builder is responsibility.  The panel builder is responsibility. The specifications for the switchgear must observed.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  State panel builder's responsibility. The specifications for the switchgear must observed.  Additional information  Current limiting class  3  Features  Anti-nuisance tripping version   | 10.7 Internal electrical circuits and connections                                | Is the panel builder's responsibility.   |
| 10.9.3 Impulse withstand voltage  Is the panel builder's responsibility.  10.9.4 Testing of enclosures made of insulating material  Is the panel builder's responsibility.  10.10 Temperature rise  The panel builder is responsibile for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Current limiting class  Features  Anti-nuisance tripping version  | 10.8 Connections for external conductors   | Is the panel builder's responsibility.   |
| 10.9.4 Testing of enclosures made of insulating material  10.10 Temperature rise  The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  10.11 Short-circuit rating  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Current limiting class  Features  Anti-nuisance tripping version   | 10.9.2 Power-frequency electric strength   | Is the panel builder's responsibility.   |
| 10.10 Temperature rise  The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.  10.11 Short-circuit rating  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.12 Electromagnetic compatibility  Is the panel builder's responsibility. The specifications for the switchgear must observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Current limiting class  3  Features  Anti-nuisance tripping version  | 10.9.3 Impulse withstand voltage   | Is the panel builder's responsibility.   |
| provide heat dissipation data for the devices.  10.11 Short-circuit rating  10.12 Electromagnetic compatibility  10.13 Mechanical function  10.13 Mechanical function  Current limiting class  Preatures  provide heat dissipation data for the devices.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  Is the panel builder's responsibility. The specifications for the switchgear must observed.  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Anti-nuisance tripping version   | 10.9.4 Testing of enclosures made of insulating material                         | Is the panel builder's responsibility.   |
| observed.  10.12 Electromagnetic compatibility  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Current limiting class  3  Features  Anti-nuisance tripping version   | 10.10 Temperature rise   |  |
| observed.  10.13 Mechanical function  The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.  Additional information  Current limiting class  Features  Anti-nuisance tripping version   | 10.11 Short-circuit rating   | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| Additional information  Current limiting class  Features  leaflet (IL) is observed.  3  Anti-nuisance tripping version   | 10.12 Electromagnetic compatibility  | Is the panel builder's responsibility. The specifications for the switchgear must be observed. |
| Current limiting class  3 Features  Anti-nuisance tripping version   | 10.13 Mechanical function  | · · · · · · · · · · · · · · · · · · ·  |
| Features Anti-nuisance tripping version  | Additional information   |  |
|  | Current limiting class   | 3  |
| Concurrently switching N-neutral   | Features   | Anti-nuisance tripping version Concurrently switching N-neutral                                |

## **Technical data ETIM 9.0**

| Circuit breakers and fuses | (EG000020)  | Farth leakage | circuit breaker (EC000905) |
|----------------------------|-------------|---------------|----------------------------|
| Circuit breakers and luses | (LU000020)/ | Laitiileakaye | circuit breaker (Ecooo303) |

| Electric engineering, automation, process control engineering / Electrical installation, device / nestudal current protection system / Nicb/Nocb combination (ec/@ss13-z/-14-zz-0/ [AFZ610020]) |    |     |  |  |
|---|----|-----|--|--|
| Number of poles (total)   |    | 2   |  |  |
| Number of protected poles   |    | 1   |  |  |
| Rated voltage   | V  | 240 |  |  |
| Rated insulation voltage Ui   | V  | 500 |  |  |
| Rated impulse withstand voltage Uimp  | kV | 4   |  |  |
| Rated current   | А  | 40  |  |  |

| А   | 0.03                |
|-----|---------------------|
|     | AC                  |
|     | 3                   |
| W   |                     |
| kA  | 10                  |
| kA  | 10                  |
| kA  | 10                  |
|     | Short-time delayed  |
| kA  | 3                   |
|     | AC                  |
|     | 50 Hz               |
|     | В                   |
|     | Yes                 |
|     | No                  |
|     | 3                   |
|     | 2                   |
| °C  | -25 - 40            |
|     | 2                   |
| mm  | 75.5                |
|     | No                  |
|     | Yes                 |
|     | IP20                |
| mm² | 1 - 25              |
| mm² | 1 - 25              |
|     | W kA kA kA  kA  mm² |