

**Changeover switch, QM, 40 A, 2 x 3 pole + N (switched), without rotary handle, With drive shaft, 6 mm square**



**Part no. QM40/3N  
1319970**

| <b>General specifications</b>                     |  |   |
|---|--|---|
| Product name                                      |  | Eaton QM Changeover switch  |
| Part no.  |  | QM40/3N   |
| EAN   |  | 8711426315396   |
| Product Length/Depth                              |  | 125 millimetre  |
| Product height                                    |  | 90 millimetre   |
| Product width                                     |  | 125 millimetre  |
| Product weight                                    |  | 0.49 kilogram   |
| Certifications                                    |  | CE<br>IEC/EN 60947-3<br>VDE 0660<br>RoHS<br>IEC/EN 60947<br>IEC/EN 60204      |
| Product Tradename                                 |  | QM  |
| Product Type                                      |  | Changeover switch   |
| Product Sub Type                                  |  | None  |
| <b>Features &amp; Functions</b>                   |  |   |
| Fitted with:                                      |  | Drive shaft   |
| Functions   |  | Optional Stop Function  |
| Number of poles                                   |  | Eight-pole  |
| <b>General information</b>                        |  |   |
| Accessories                                       |  | Auxiliary contact fitted by user.   |
| Actuator type                                     |  | Other   |
| Degree of protection                              |  | NEMA Other  |
| Degree of protection (front side)                 |  | IP20  |
| Mounting method                                   |  | Top-hat rail mounting<br>Rear mounting  |
| Mounting position                                 |  | As required   |
| Overvoltage category                              |  | III   |
| Pollution degree                                  |  | 3   |
| Product Category                                  |  | Changeover switches   |
| Rated impulse withstand voltage (Uimp)            |  | 6000 V  |
| Safety parameter (EN ISO 13849-1)                 |  | B10d values as per EN ISO 13849-1, table C.1                                  |
| Suitable for                                      |  | Ground mounting   |
| <b>Climatic environmental conditions</b>          |  |   |
| Ambient operating temperature - min               |  | -25 °C  |
| Ambient operating temperature - max               |  | 55 °C   |
| Ambient storage temperature - min                 |  | -30 °C  |
| Ambient storage temperature - max                 |  | 80 °C   |
| <b>Terminal capacities</b>                        |  |   |
| Terminal capacity                                 |  | 2.5 - 16 mm <sup>2</sup> , solid<br>1 x (2.5 - 10) mm <sup>2</sup> , flexible |
| Stripping length (main cable)                     |  | 10 mm   |
| Tightening torque                                 |  | 1.8 Nm, Screw terminals, Main cables  |
| <b>Electrical rating</b>                          |  |   |
| Rated conditional short-circuit current (Iq)      |  | 0 kA  |
| Rated insulation voltage (Ui)                     |  | 690 V   |
| Rated operational power at AC-23A, 400 V, 50 Hz   |  | 15 kW   |
| Rated operational power at AC-3, 380/400 V, 50 Hz |  | 11 kW   |

|  |  |  |
|--|--|--|
| Rated operational voltage (Ue) at AC - max                                       |  | 690 V  |
| Rated uninterrupted current (Iu)   |  | 40 A   |
| Uninterrupted current  |  | Rated uninterrupted current Iu is specified for max. cross-section.  |
| <b>Contacts</b>  |  |  |
| Number of auxiliary contacts (change-over contacts)                              |  | 0  |
| Number of auxiliary contacts (normally closed contacts)                          |  | 0  |
| Number of auxiliary contacts (normally open contacts)                            |  | 0  |
| <b>Design verification</b>   |  |  |
| Equipment heat dissipation, current-dependent Pvid                               |  | 0 W  |
| Heat dissipation capacity Pdis   |  | 0 W  |
| Heat dissipation per pole, current-dependent Pvid                                |  | 4 W  |
| Rated operational current for specified heat dissipation (In)                    |  | 40 A   |
| Static heat dissipation, non-current-dependent Pvs                               |  | 0 W  |
| 10.2.2 Corrosion resistance  |  | Meets the product standard's requirements.   |
| 10.2.3.1 Verification of thermal stability of enclosures                         |  | Meets the product standard's requirements.   |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat       |  | Meets the product standard's requirements.   |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects |  | 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   |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.6 Mechanical impact   |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.2.7 Inscriptions  |  | Meets the product standard's requirements.   |
| 10.3 Degree of protection of assemblies  |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.4 Clearances and creepage distances   |  | Meets the product standard's requirements.   |
| 10.5 Protection against electric shock   |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.6 Incorporation of switching devices and components                           |  | Does not apply, since the entire switchgear needs to be evaluated.   |
| 10.7 Internal electrical circuits and connections                                |  | Is the panel builder's responsibility.   |
| 10.8 Connections for external conductors   |  | Is the panel builder's responsibility.   |
| 10.9.2 Power-frequency electric strength   |  | 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 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 be observed.                                   |
| 10.12 Electromagnetic compatibility  |  | Is the panel builder's responsibility. The specifications for the switchgear must be observed.                                   |
| 10.13 Mechanical function  |  | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.                         |