

## RMQ16

### Technical Data

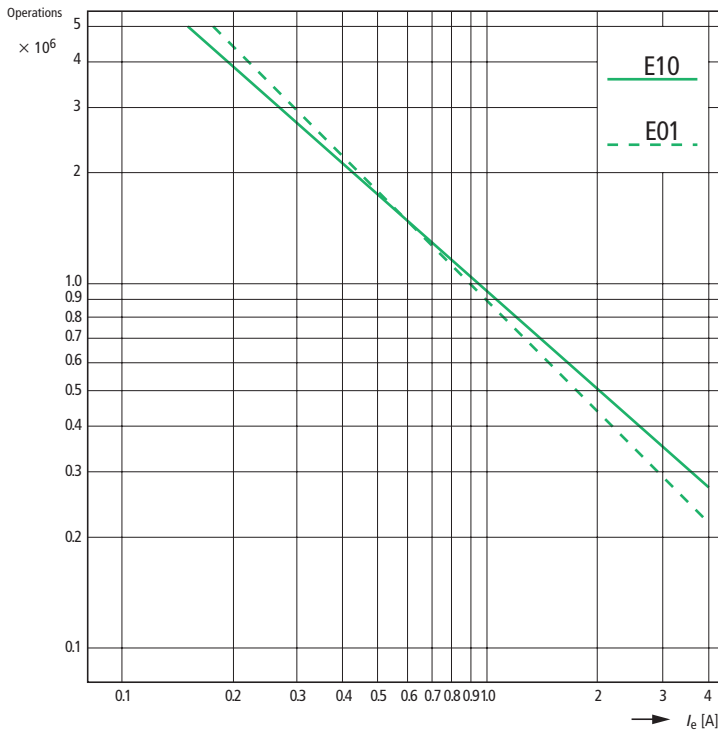
|  |                         |                 | Contact elements  | Illuminated pushbutton operators (maintained) | Illuminated selector switches | Indicating lights |
|--|-------------------------|-----------------|---|---|-------------------------------|-------------------|
| <b>General technical data</b>  |                         |                 |   |   |                               |                   |
| Standards  |                         |                 | UL, CSA, IEC/EN 60 947, VDE 0660, CE  |   |                               |                   |
| Lifespan, mechanical   | Operations              | $\times 10^5$   | 100   | 30 (3)  | 3                             | –                 |
| Maximum operating frequency  |                         | Ops/h           | 3600  | 3600 (1800)                                   | 1800                          | –                 |
| Operating force  |                         | N               | 3   | 4   | –                             | –                 |
| Operating torque   |                         | Nm              | –   | –   | $\leq 0.2$                    | –                 |
| Degree of protection to IEC/EN 60 529  |                         |                 | IP20 with ISH2,8  | IP65  | IP65                          | IP65              |
| Climatic proofing  |                         |                 | Damp heat, constant, to IEC 60 068-2-3<br>Damp heat, cyclical, to IEC 60 068-2-30             |   |                               |                   |
| Ambient temperature  |                         |                 |   |   |                               |                   |
| Open   | Min./Max.               | °C              | –25/+60   | –25/+60                                       | –25/+60                       | –25/+60           |
| Enclosed   | Min./Max.               | °C              | –25/+40   | –25/+40                                       | –25/+40                       | –25/+40           |
| Mounting position  |                         |                 | As required   | As required                                   | As required                   | As required       |
| Mechanical shock resistance to IEC 60 068-2-27 (half-sinusoidal shock, duration 11 ms) |                         |                 | 40  | 40  | 40                            | 40                |
| Terminal capacity  | Min./Max.               | mm <sup>2</sup> | 0.5/1.0   | 0.5/1.0                                       | 0.5/1.0                       | 0.5/1.0           |
| Blade terminal   |                         |                 | 2.8 $\times$ 0.8 mm to DIN 46 244   |   |                               |                   |
| Ferrule  |                         |                 | 2.8 $\times$ 0.8 mm to DIN 46 247 and IEC 60 760  |   |                               |                   |
| Dimensions   |                         |                 | → Page 05/084 → Page 05/084 → Page 05/084 → Page 05/084                                       |   |                               |                   |
| <b>Contacts</b>  |                         |                 |   |   |                               |                   |
| Rated impulse withstand voltage $U_{imp}$  |                         |                 | 4000  | 800   | 800                           | 800               |
| Rated insulation voltage $U_i$   |                         |                 | 250   | 250   | 250                           | 250               |
| Overvoltage category/ pollution degree   |                         |                 | III/3   | III/3   | III/3                         | III/3             |
| Rated operational voltage $U_e$  | Max.                    | V               | 250   | 24  | 24                            | 24                |
| Rated operational current $I_e$  | Max.                    | A               | 4   | –   | –                             | –                 |
| Control circuit reliability at   |                         |                 |   |   |                               |                   |
| 24 V DC/5 mA   | Fault probability $H_f$ |                 | < $10^{-7}$ , < 1 fault in $10^7$ operations  |   |                               |                   |
| 5 V DC/1 mA  | Fault probability $H_f$ |                 | < $5 \times 10^{-6}$ , < 1 fault in $5 \times 10^6$ operations                                |   |                               |                   |
| Use of insulated ferrule ISH 2.8   |                         |                 |   |   |                               |                   |
| From $U_e$   |                         |                 | > 24 V AC/DC recommended  |   |                               |                   |
| From $U_e$   |                         |                 | > 50 V AC or 120 V DC is mandatory, even on unused blade terminals                            |   |                               |                   |
| Maximum short-circuit protective device  |                         |                 |   |   |                               |                   |
| Fuseless   |                         | Type            | FAZ-B6  | –   | –                             | –                 |
| Fuse   |                         | A gG/gL         | 10  | –   | –                             | –                 |
| <b>Switching capacity</b>  |                         |                 |   |   |                               |                   |
| Rated operational current $I_e$  |                         |                 |   |   |                               |                   |
| AC-15  |                         |                 |   |   |                               |                   |
| 24 V   |                         | A               | 4   | –   | –                             | –                 |
| 48 V   |                         | A               | 4   | –   | –                             | –                 |
| 110 V  |                         | A               | 4   | –   | –                             | –                 |
| 230 V  |                         | A               | 4   | –   | –                             | –                 |
| DC-13  |                         |                 |   |   |                               |                   |
| 24 V   |                         | A               | 3   | –   | –                             | –                 |
| 42 V   |                         | A               | 1.0   | –   | –                             | –                 |
| 60 V   |                         | A               | 0.8   | –   | –                             | –                 |
| 110 V  |                         | A               | 0.5   | –   | –                             | –                 |
| 220 V  |                         | A               | 0.2   | –   | –                             | –                 |
| <b>UL/CSA data</b>   |                         |                 | UL listed file No. E 29 184, Guide No. NKCR<br>CSA certified File No. 46 552 Class No. 321103 |   |                               |                   |
| Blade terminal   |                         |                 | .110 x .032 inches  |   |                               |                   |
| Fast-on connector  |                         |                 | .110 x .032 inches AMP # 60 197-1, 62 050-1 or equivalent                                     |   |                               |                   |
| Rated voltage max. AC  |                         | V AC            | 300   | 24  | 24                            | 24                |
| Contact rating code AC   |                         | E10/E01         | C300/Q300   | –   | –                             | –                 |
| Thermal continuous test current  |                         | A               | 2.5   | –   | –                             | –                 |
| Rated voltage max. DC  |                         | V DC            | 300   | –   | –                             | –                 |
| Contact rating code DC   |                         | E10/E01         | C300/R300   | –   | –                             | –                 |
| Thermal continuous test current  |                         | A               | 2.5   | –   | –                             | –                 |

**RMQ16**  
Technical Data

| Pushbutton operators<br>(maintained)  | Selector switches | Key-released operators | Emergency-Stop operators | Emergency-Stop operators <sup>1)</sup><br>illuminated |
|---|-------------------|------------------------|--------------------------|---|
| UL/CSA, IEC/EN 60 947, VDE 0660, CE   |                   |                        |                          |   |
| 30 (3)  | 3                 | 3                      | 0.5                      | 0.5   |
| 3600 (1800)   | 1800              | 1800                   | 600                      | 600   |
| 4   | -                 | -                      | 25                       | 25  |
| -   | ≤ 0,2             | ≤ 0,4                  | -                        | -   |
| IP65  | IP65              | IP65                   | IP65                     | IP65  |
| Damp heat, constant, to IEC 60 068-2-3<br>Damp heat, cyclical, to IEC 60 068-2-30 |                   |                        |                          |   |
| -25/+60   | -25/+60           | -25/+60                | -25/+60                  | -25/+60   |
| -25/+40   | -25/+40           | -25/+40                | -25/+40                  | -25/+40   |
| As required   | As required       | As required            | As required              | As required   |
| 40  | 40                | 40                     | 40                       | 40  |
| -   | -                 | -                      | -                        | 0.5/1.0   |
| -   | -                 | -                      | -                        | 2.8 × 0.8 mm  |
| -   | -                 | -                      | -                        | 2.8 × 0.8 mm  |
| → Page 05/084   | → Page 05/084     | → Page 05/084          | → Page 05/084            | → Page 05/084   |

Lifespan, electrical AC-15 to IEC/EN 60 947-5-1 at 230 V

$I_e$  = Rated operational current



Notes <sup>1)</sup> See illuminated selector switches for contact values