

**On-Off switch, P3, 63 A, surface mounting, 3 pole, Emergency switching off function, with red thumb grip and yellow front plate**

**Part no.** P3-63/I4-RT  
**Catalog No.** 207357

Similar to illustration

## Delivery program

|                                                    |                |     |                                                                                 |
|----------------------------------------------------|----------------|-----|---------------------------------------------------------------------------------|
| Product range                                      |                |     | On-Off switch                                                                   |
| Part group reference                               |                |     | P3                                                                              |
| Stop Function                                      |                |     | Emergency switching off function                                                |
|                                                    |                |     | with red thumb grip and yellow front plate                                      |
| Information about equipment supplied               |                |     | Auxiliary contact or neutral conductor fitted by user.                          |
| Number of poles                                    |                |     | 3 pole                                                                          |
| <b>Auxiliary contacts</b>                          |                |     |                                                                                 |
|                                                    |                | N/O | 0                                                                               |
|                                                    |                | N/C | 0                                                                               |
| Degree of Protection                               |                |     | IP65                                                                            |
| Design                                             |                |     | surface mounting                                                                |
| <b>Motor rating AC-23A, 50 - 60 Hz</b>             |                |     |                                                                                 |
| 400 V                                              | P              | kW  | 30                                                                              |
| Rated uninterrupted current                        | I <sub>u</sub> | A   | 63                                                                              |
| Note on rated uninterrupted current I <sub>u</sub> |                |     | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section. |

## Technical data

### General

|                                       |                  |      |                                                                                                  |
|---------------------------------------|------------------|------|--------------------------------------------------------------------------------------------------|
| Standards                             |                  |      | IEC/EN 60947, VDE 0660, IEC/EN 60204, CSA, UL<br>Switch-disconnector according to IEC/EN 60947-3 |
| Climatic proofing                     |                  |      | Damp heat, constant, to IEC 60068-2-78<br>Damp heat, cyclic, to IEC 60068-2-30                   |
| Ambient temperature                   |                  |      |                                                                                                  |
| Enclosed                              |                  | °C   | -25 - +40                                                                                        |
| Overvoltage category/pollution degree |                  |      | III/3                                                                                            |
| Rated impulse withstand voltage       | U <sub>imp</sub> | V AC | 6000                                                                                             |
| Mechanical shock resistance           |                  | g    | 15                                                                                               |
| Mounting position                     |                  |      | As required                                                                                      |

### Contacts

|                                                    |                |                  |                                                                                 |
|----------------------------------------------------|----------------|------------------|---------------------------------------------------------------------------------|
| Mechanical variables                               |                |                  |                                                                                 |
| Number of poles                                    |                |                  | 3 pole                                                                          |
| Auxiliary contacts                                 |                |                  |                                                                                 |
|                                                    |                | N/O              | 0                                                                               |
|                                                    |                | N/C              | 0                                                                               |
| Electrical characteristics                         |                |                  |                                                                                 |
| Rated operational voltage                          | U <sub>e</sub> | V AC             | 690                                                                             |
| Rated uninterrupted current                        | I <sub>u</sub> | A                | 63                                                                              |
| Note on rated uninterrupted current I <sub>u</sub> |                |                  | Rated uninterrupted current I <sub>u</sub> is specified for max. cross-section. |
| Load rating with intermittent operation, class 12  |                |                  |                                                                                 |
| AB 25 % DF                                         |                | x I <sub>e</sub> | 2                                                                               |
| AB 40 % DF                                         |                | x I <sub>e</sub> | 1.6                                                                             |
| AB 60 % DF                                         |                | x I <sub>e</sub> | 1.3                                                                             |

|                                                     |          |           |                                    |
|-----------------------------------------------------|----------|-----------|------------------------------------|
| Short-circuit rating                                |          |           |                                    |
| Fuse                                                |          | A gG/gL   | 80                                 |
| Rated short-time withstand current (1 s current)    | $I_{cw}$ | $A_{rms}$ | 1260                               |
| Note on rated short-time withstand current $I_{cw}$ |          |           | Current for a time of 1 second     |
| Rated conditional short-circuit current             | $I_q$    | kA        | 4 (Load side)<br>100 (Supply side) |

### Switching capacity

|                                                         |              |               |       |
|---------------------------------------------------------|--------------|---------------|-------|
| $\cos \varphi$ rated making capacity as per IEC 60947-3 |              | A             | 800   |
| Rated breaking capacity $\cos \varphi$ to IEC 60947-3   |              | A             |       |
| 230 V                                                   |              | A             | 640   |
| 400/415 V                                               |              | A             | 600   |
| 500 V                                                   |              | A             | 590   |
| 690 V                                                   |              | A             | 340   |
| Safe isolation to EN 61140                              |              |               |       |
| between the contacts                                    |              | V AC          | 440   |
| Current heat loss per contact at $I_e$                  |              | W             | 4.5   |
| Lifespan, mechanical                                    | Operations   | $\times 10^6$ | > 0.1 |
| Maximum operating frequency                             | Operations/h |               | 1200  |
| AC                                                      |              |               |       |
| AC-3                                                    |              |               |       |
| Rating, motor load switch                               | P            | kW            |       |
| 220 V 230 V                                             | P            | kW            | 15    |
| 400 V 415 V                                             | P            | kW            | 30    |
| 500 V                                                   | P            | kW            | 30    |
| 690 V                                                   | P            | kW            | 30    |
| Rated operational current motor load switch             |              |               |       |
| 230 V                                                   | $I_e$        | A             | 51    |
| 400V 415 V                                              | $I_e$        | A             | 55    |
| 500 V                                                   | $I_e$        | A             | 44    |
| 690 V                                                   | $I_e$        | A             | 22.1  |
| AC-23A                                                  |              |               |       |
| Motor rating AC-23A, 50 - 60 Hz                         | P            | kW            |       |
| 230 V                                                   | P            | kW            | 18.5  |
| 400 V 415 V                                             | P            | kW            | 30    |
| 500 V                                                   | P            | kW            | 45    |
| 690 V                                                   | P            | kW            | 55    |
| Rated operational current motor load switch             |              |               |       |
| 230 V                                                   | $I_e$        | A             | 63    |
| 400 V 415 V                                             | $I_e$        | A             | 63    |
| 500 V                                                   | $I_e$        | A             | 63    |
| 690 V                                                   | $I_e$        | A             | 63    |
| DC                                                      |              |               |       |
| DC-1, Load-break switches L/R = 1 ms                    |              |               |       |
| Rated operational current                               | $I_e$        | A             | 63    |
| Voltage per contact pair in series                      |              | V             | 60    |
| DC-23A, motor load switch L/R = 15 ms                   |              |               |       |
| 24 V                                                    |              |               |       |
| Rated operational current                               | $I_e$        | A             | 50    |
| Contacts                                                |              | Quantity      | 1     |
| 48 V                                                    |              |               |       |
| Rated operational current                               | $I_e$        | A             | 50    |
| Contacts                                                |              | Quantity      | 2     |
| 60 V                                                    |              |               |       |
| Rated operational current                               | $I_e$        | A             | 50    |
| Contacts                                                |              | Quantity      | 2     |

|                                                                            |                   |                 |                                                                  |
|----------------------------------------------------------------------------|-------------------|-----------------|------------------------------------------------------------------|
| 120 V                                                                      |                   |                 |                                                                  |
| Rated operational current                                                  | I <sub>e</sub>    | A               | 25                                                               |
| Contacts                                                                   |                   | Quantity        | 3                                                                |
| Control circuit reliability at 24 V DC, 10 mA                              | Fault probability | H <sub>F</sub>  | < 10 <sup>-5</sup> , < 1 failure in 100,000 switching operations |
| Terminal capacities                                                        |                   |                 |                                                                  |
| Solid or stranded                                                          |                   | mm <sup>2</sup> | 1 x (2,5 - 35)<br>2 x (2,5 - 10)                                 |
| Flexible with ferrules to DIN 46228                                        |                   | mm <sup>2</sup> | 1 x (1.5 - 25)<br>2 x (1.5 - 6)                                  |
| Terminal screw                                                             |                   |                 | M5                                                               |
| Tightening torque for terminal screw                                       |                   | Nm              | 3                                                                |
| Technical safety parameters:                                               |                   |                 |                                                                  |
| Notes                                                                      |                   |                 | B10 <sub>d</sub> values as per EN ISO 13849-1, table C1          |
| Rating data for approved types                                             |                   |                 |                                                                  |
| Contacts                                                                   |                   |                 |                                                                  |
| Rated operational voltage                                                  | U <sub>e</sub>    | V AC            | 600                                                              |
| Rated uninterrupted current max.                                           |                   |                 |                                                                  |
| Main conducting paths                                                      |                   |                 |                                                                  |
| General use                                                                |                   | A               | 60                                                               |
| Auxiliary contacts                                                         |                   |                 |                                                                  |
| General Use                                                                | I <sub>U</sub>    | A               | 10                                                               |
| Pilot Duty                                                                 |                   |                 | A 600<br>P 600                                                   |
| Switching capacity                                                         |                   |                 |                                                                  |
| Maximum motor rating                                                       |                   |                 |                                                                  |
| Single-phase                                                               |                   |                 |                                                                  |
| 120 V AC                                                                   |                   | HP              | 3                                                                |
| 200 V AC                                                                   |                   | HP              | 7.5                                                              |
| 240 V AC                                                                   |                   | HP              | 10                                                               |
| Three-phase                                                                |                   |                 |                                                                  |
| 200 V AC                                                                   |                   | HP              | 15                                                               |
| 240 V AC                                                                   |                   | HP              | 15                                                               |
| 480 V AC                                                                   |                   | HP              | 40                                                               |
| 600 V AC                                                                   |                   | HP              | 50                                                               |
| Short Circuit Current Rating                                               |                   | SCCR            |                                                                  |
| Basic Rating                                                               |                   | kA              | 10                                                               |
| max. Fuse                                                                  |                   | A               | 150                                                              |
| Terminal capacity                                                          |                   |                 |                                                                  |
| Solid or flexible conductor with ferrule                                   |                   | AWG             | 14 - 2                                                           |
| Terminal screw                                                             |                   |                 | M5                                                               |
| Tightening torque                                                          |                   | lb-in           | 26.5                                                             |
| Design verification as per IEC/EN 61439                                    |                   |                 |                                                                  |
| Technical data for design verification                                     |                   |                 |                                                                  |
| Rated operational current for specified heat dissipation                   | I <sub>n</sub>    | A               | 63                                                               |
| Heat dissipation per pole, current-dependent                               | P <sub>vid</sub>  | W               | 4.5                                                              |
| Equipment heat dissipation, current-dependent                              | P <sub>vid</sub>  | W               | 0                                                                |
| Static heat dissipation, non-current-dependent                             | P <sub>vs</sub>   | W               | 0                                                                |
| Heat dissipation capacity                                                  | P <sub>diss</sub> | W               | 0                                                                |
| Operating ambient temperature min.                                         |                   | °C              | -25                                                              |
| Operating ambient temperature max.                                         |                   | °C              | 40                                                               |
| IEC/EN 61439 design verification                                           |                   |                 |                                                                  |
| 10.2 Strength of materials and parts                                       |                   |                 |                                                                  |
| 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 Verification of resistance of insulating materials to abnormal heat and fire due to internal electric effects |  |  | Meets the product standard's requirements.                                                                                       |
| 10.2.4 Resistance to ultra-violet (UV) radiation                                                                       |  |  | UV resistance only in connection with protective shield.                                                                         |
| 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 Insulation properties                                                                                             |  |  |                                                                                                                                  |
| 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.                         |

## Technical data ETIM 8.0

|                                                                                                                                                                                                               |  |    |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----|----------------------------|
| Low-voltage industrial components (EG000017) / Switch disconnecter (EC000216)                                                                                                                                 |  |    |                            |
| Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss10.0.1-27-37-14-03 [AKF060013]) |  |    |                            |
| Version as main switch                                                                                                                                                                                        |  |    | No                         |
| Version as maintenance-/service switch                                                                                                                                                                        |  |    | No                         |
| Version as safety switch                                                                                                                                                                                      |  |    | No                         |
| Version as emergency stop installation                                                                                                                                                                        |  |    | No                         |
| Version as reversing switch                                                                                                                                                                                   |  |    | No                         |
| Number of switches                                                                                                                                                                                            |  |    | 1                          |
| Max. rated operation voltage Ue AC                                                                                                                                                                            |  | V  | 690                        |
| Rated operating voltage                                                                                                                                                                                       |  | V  | 690 - 690                  |
| Rated permanent current Iu                                                                                                                                                                                    |  | A  | 63                         |
| Rated permanent current at AC-23, 400 V                                                                                                                                                                       |  | A  | 63                         |
| Rated permanent current at AC-21, 400 V                                                                                                                                                                       |  | A  | 63                         |
| Rated operation power at AC-3, 400 V                                                                                                                                                                          |  | kW | 30                         |
| Rated short-time withstand current Icw                                                                                                                                                                        |  | kA | 1.26                       |
| Rated operation power at AC-23, 400 V                                                                                                                                                                         |  | kW | 30                         |
| Switching power at 400 V                                                                                                                                                                                      |  | kW | 30                         |
| Conditioned rated short-circuit current Iq                                                                                                                                                                    |  | kA | 100                        |
| Number of poles                                                                                                                                                                                               |  |    | 3                          |
| Number of auxiliary contacts as normally closed contact                                                                                                                                                       |  |    | 0                          |
| Number of auxiliary contacts as normally open contact                                                                                                                                                         |  |    | 0                          |
| Number of auxiliary contacts as change-over contact                                                                                                                                                           |  |    | 0                          |
| Motor drive optional                                                                                                                                                                                          |  |    | No                         |
| Motor drive integrated                                                                                                                                                                                        |  |    | No                         |
| Voltage release optional                                                                                                                                                                                      |  |    | No                         |
| Device construction                                                                                                                                                                                           |  |    | Complete device in housing |
| Suitable for floor mounting                                                                                                                                                                                   |  |    | Yes                        |
| Suitable for front mounting 4-hole                                                                                                                                                                            |  |    | No                         |
| Suitable for front mounting centre                                                                                                                                                                            |  |    | No                         |
| Suitable for distribution board installation                                                                                                                                                                  |  |    | No                         |
| Suitable for intermediate mounting                                                                                                                                                                            |  |    | No                         |

|                                               |  |  |                  |
|-----------------------------------------------|--|--|------------------|
| Colour control element                        |  |  | Red              |
| Type of control element                       |  |  | Short thumb-grip |
| Interlockable                                 |  |  | No               |
| Type of electrical connection of main circuit |  |  | Screw connection |
| Degree of protection (IP), front side         |  |  | IP65             |
| Degree of protection (NEMA)                   |  |  | 12               |