

### General characteristics

|                   |  |
|-------------------|--|
| Switching diagram | 11 - 3-phase motor reversing switch            |
| N° of elements    | 3  |
| Mounting form     | P25 - Plastic enclosure with red/yellow handle |

### Contact characteristics

|   |                   |      |           |    |
|---|-------------------|------|-----------|----|
| Rated insulation voltage $U_i$                            | IEC/EN            | V    | 690       |    |
|   | UL/CSA            | V    | 600       |    |
| Rated impulse withstand voltage $U_{imp}$                 |                   | kV   | 6         |    |
| Conventional free air thermal current $I_{th}$            | IEC/EN            | A    | 63        |    |
|   | UL/CSA            | A    | 60        |    |
| Rated operational voltage                                 |                   | V    | 480       |    |
| Rated operational impulse voltage                         |                   | kV   | 4         |    |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA              | A    | 63        |    |
|   | 15kA              | A    | 63        |    |
|   | 25kA              | A    | 63        |    |
|   | 50kA              | A    | 63        |    |
|   | 63kA              | A    | 63        |    |
| Rated short time current $I_{cw}$                         | 1s                | kA   | 1600      |    |
|   |                   |      | 10/5 mA/V |    |
| Conductivity  |                   |      |           |    |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A         |      | A         | 63 |
|   | AC15              |      |           |    |
|   | 110V              | A    | 32        |    |
|   | 220/230V          | A    | 25        |    |
|   | 380/400V          | A    | 15        |    |
|   | 660/690V          | A    | 4         |    |
| Rated operational power in AC                             | Three-phase AC-3  |      |           |    |
|   | 220/230V          | kW   | 11        |    |
|   | 380/440V          | kW   | 18.5      |    |
|   | 500/690V          | kW   | 18.5      |    |
|   | Single-phase AC-3 |      |           |    |
|   | 110V              | kW   | 3.7       |    |
|   | 220/230V          | kW   | 6.5       |    |
|   | 380/440V          | kW   | 11.5      |    |
|   | Three-phase AC23A |      |           |    |
|   | 220/230V          | kW   | 12.5      |    |
|   | 380/440V          | kW   | 30        |    |
|   | 500/690V          | kW   | 30        |    |
| Single-phase AC23A  |                   |      |           |    |
| 110V  | kW                | 3.7  |           |    |
| 220/230V  | kW                | 7.5  |           |    |
| 380/440V  | kW                | 12.5 |           |    |
| Rated operational current in DC                           |                   |      |           |    |

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, 3-PHASE MOTOR REVERSING SWITCH  
63A IN PLASTIC ENCLOSURE 125X175MM WITH RED/YELLOW HANDLE

|       |      |   |    |
|-------|------|---|----|
| DC21A | 48V  | A | 63 |
|       | 60V  | A | 50 |
|       | 110V | A | 8  |
|       | 220V | A | 1  |

|                         |      |   |        |
|-------------------------|------|---|--------|
| DC23A (poles in series) | 24V  | A | 50 (1) |
|                         | 48V  | A | 50 (2) |
|                         | 60V  | A | 50 (3) |
|                         | 110V | A | 25 (3) |
|                         | 220V | A | 15 (4) |

|      |      |   |     |
|------|------|---|-----|
| DC13 | 24V  | A | 63  |
|      | 48V  | A | 40  |
|      | 60V  | A | 28  |
|      | 110V | A | 3.3 |

|                   |  |   |     |
|-------------------|--|---|-----|
| Power dissipation |  | W | 3.4 |
|-------------------|--|---|-----|

**Mechanical features**

|                 |  |  |    |
|-----------------|--|--|----|
| Terminals screw |  |  | M5 |
|-----------------|--|--|----|

|                                     |  |    |   |
|-------------------------------------|--|----|---|
| Tightening torque for terminals max |  | Nm | 2 |
|-------------------------------------|--|----|---|

**Conductor size**

|                   |     |     |    |
|-------------------|-----|-----|----|
| AWG - Rigid cable | min | AWG | 14 |
|                   | Max | AWG | 6  |

|                      |     |     |    |
|----------------------|-----|-----|----|
| AWG - Flexible cable | min | AWG | 14 |
|                      | Max | AWG | 8  |

|                                       |     |                 |     |
|---------------------------------------|-----|-----------------|-----|
| Conductor size (IEC) - Flexible cable | min | mm <sup>2</sup> | 2.5 |
|                                       | Max | mm <sup>2</sup> | 10  |

|                                    |     |                 |     |
|------------------------------------|-----|-----------------|-----|
| Conductor size (IEC) - Rigid cable | min | mm <sup>2</sup> | 2.5 |
|                                    | Max | mm <sup>2</sup> | 16  |

|                 |  |        |                   |
|-----------------|--|--------|-------------------|
| Mechanical life |  | cycles | 5x10 <sup>6</sup> |
|-----------------|--|--------|-------------------|

**UL technical data**

|   |      |    |     |
|---|------|----|-----|
| Motor power for direct-on-line control<br>for three-phase motor | 120V | HP | 7.5 |
|   | 240V | HP | 15  |
|   | 480V | HP | 25  |
|   | 600V | HP | 25  |

|                        |      |    |    |
|------------------------|------|----|----|
| for single-phase motor | 120V | HP | 3  |
|                        | 240V | HP | 10 |

**Ambient conditions**

**Temperature**

|                       |     |    |     |
|-----------------------|-----|----|-----|
| Operating temperature | min | °C | -25 |
|                       | max | °C | +55 |

|                     |     |    |     |
|---------------------|-----|----|-----|
| Storage temperature | min | °C | -40 |
|                     | max | °C | +70 |

**Resistance & Protection**

|                   |  |  |      |
|-------------------|--|--|------|
| Frontal IP degree |  |  | IP65 |
|-------------------|--|--|------|

Terminals IP degree

IP00

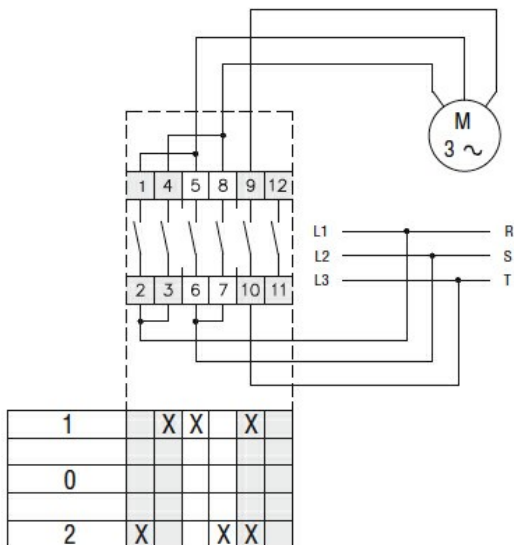
**Dimensions**

| Series              | Enclosure size     | Number of elements |     | Dimensions |     |         |         |     |    |    |      |      |       | Cable entry      | Protection degree |
|---------------------|--------------------|--------------------|-----|------------|-----|---------|---------|-----|----|----|------|------|-------|------------------|-------------------|
|                     |                    | L                  | L1  | A          | A1  | C       | C1      | D   | F  | M  | N    | L    | L1    |                  |                   |
| 7GN12 <sup>Ⓟ</sup>  | 75x75 <sup>Ⓟ</sup> | 1-2                | 3-4 | 75         | 75  | 50      | 64      | 4.5 | 19 | 14 | 28   | 57.5 | 79.8  | 4xPG13.5         | IP65              |
| 7GN20 <sup>Ⓟ</sup>  |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN25 <sup>Ⓟ</sup>  |                    | 1                  | 2-3 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN12 <sup>Ⓟ</sup>  | 90x90              | 1-3                | 4-6 | 90         | 90  | 79      | 63      | 4.5 | 25 | 19 | 30   | 71.3 | 98.3  | 4xPG16           | IP65              |
| 7GN20 <sup>Ⓟ</sup>  |                    | 1-3                | 4-6 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN25 <sup>Ⓟ</sup>  |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN32               |                    | 1                  | 2-3 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN40               |                    | 1                  | 2-3 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN12               | 110x110            | 1-4                | 5-8 | 110        | 110 | 98.4    | 83      | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21           | IP65              |
| 7GN20               |                    | 1-4                | 5-8 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN25               |                    | 1-3                | 4-5 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN32 <sup>Ⓟ</sup>  |                    | 1-2                | 3-5 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN40 <sup>Ⓟ</sup>  |                    | 1-2                | 3-5 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN63               |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN32 <sup>Ⓟ</sup>  | 125x175            | 1-2                | 3-4 | 125        | 175 | 146     | 112     | 5.5 | 32 | 21 | 68   | 84.3 | 118.3 | 4xPG21<br>2xPG11 | IP65              |
| 7GN40 <sup>Ⓟ</sup>  |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN63 <sup>Ⓟ</sup>  |                    | 1-2                | 3-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN125              |                    | 1                  | 2   |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN32               | 198x248            | -                  | 1-7 | 198        | 248 | 190-210 | 140-180 | 5.5 | 32 | 35 | 104  | -    | 166.5 | 6xPG16-<br>21-29 | IP65              |
| 7GN40               |                    | -                  | 1-7 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN63 <sup>Ⓟ</sup>  |                    | -                  | 1-6 |            |     |         |         |     |    |    |      |      |       |                  |                   |
| 7GN125 <sup>Ⓟ</sup> |                    | -                  | 1-4 |            |     |         |         |     |    |    |      |      |       |                  |                   |

Ⓟ Standard dimensions for cam switch in plastic enclosure with black handle (P).

Ⓟ D Standard dimensions for cam switch in plastic enclosure with red/yellow handle padlockable in 0 (P25).

**Wiring diagrams**



**Certifications and compliance**

Compliance

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

Certificates

EAC

**ETIM classification**

ETIM 8.0

EC001029 -  
Selector switch,  
complete