



Product designation

Product type designation

General characteristics

Switching diagram

N° of elements

Mounting form

Rotary cam
switches
7GN20

11 - 3-phase
motor reversing
switch

P - Plastic
enclosure with
black 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 | 20 |
| UL/CSA | A | 20 |

Rated operational voltage

V 480

Rated operational impulse voltage

kV 4

Maximum fuse size for short-circuit protection I_n (gG)

| | | |
|------|---|----|
| 10kA | A | 20 |
| 15kA | A | 16 |
| 25kA | A | 16 |

Rated short time current I_{cw}

1s kA 250

Conductivity

10/5 mA/V

Operational current I_e IEC/EN

AC1/AC21A

A 20

AC15

| | | |
|----------|---|-----|
| 110V | A | 10 |
| 220/230V | A | 8 |
| 380/400V | A | 6 |
| 660/690V | A | 1.5 |

Rated operational power in AC

Three-phase AC-3

| | | |
|----------|----|-----|
| 220/230V | kW | 3 |
| 380/440V | kW | 5.5 |
| 500/690V | kW | 5.5 |

Single-phase AC-3

| | | |
|----------|----|-----|
| 110V | kW | 0.8 |
| 220/230V | kW | 2.2 |
| 380/440V | kW | 3 |

Three-phase AC23A

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, 3-PHASE MOTOR REVERSING SWITCH
20A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

| | | | | |
|--|--|----------|-----------------|-------------------|
| | | 220/230V | kW | 5 |
| | | 380/440V | kW | 7.5 |
| | | 500/690V | kW | 7.5 |
| Single-phase AC23A | | | | |
| | | 110V | kW | 0.8 |
| | | 220/230V | kW | 2.5 |
| | | 380/440V | kW | 3.7 |
| Rated operational current in DC | | | | |
| DC21A | | | | |
| | | 48V | A | 20 |
| | | 60V | A | 20 |
| | | 110V | A | 4 |
| | | 220V | A | 0.6 |
| | | 440V | A | 0.25 |
| DC23A (poles in series) | | | | |
| | | 24V | A | 20 (1) |
| | | 48V | A | 20 (2) |
| | | 60V | A | 20 (3) |
| | | 110V | A | 10 (3) |
| | | 220V | A | 8 (4) |
| DC13 | | | | |
| | | 24V | A | 20 |
| | | 48V | A | 16 |
| | | 60V | A | 12 |
| | | 110V | A | 1 |
| | | 220V | A | 0.4 |
| | | 440V | A | 0.15 |
| Power dissipation | | | W | 0.8 |
| Mechanical features | | | | |
| Terminals screw | | | | M3 |
| Tightening torque for terminals max | | | Nm | 0.5 |
| Conductor size | | | | |
| AWG - Rigid cable | | | | |
| | | min | AWG | 20 |
| | | Max | AWG | 12 |
| AWG - Flexible cable | | | | |
| | | min | AWG | 20 |
| | | Max | AWG | 14 |
| Conductor size (IEC) - Flexible cable | | | | |
| | | min | mm ² | 0.5 |
| | | Max | mm ² | 2.5 |
| Conductor size (IEC) - Rigid cable | | | | |
| | | min | mm ² | 0.5 |
| | | Max | mm ² | 2.5 |
| Mechanical life | | | cycles | 5x10 ⁶ |
| UL technical data | | | | |
| Motor power for direct-on-line control | | | | |
| for three-phase motor | | | | |
| | | 120V | HP | 1.5 |
| | | 240V | HP | 3 |
| | | 480V | HP | 7.5 |
| | | 600V | HP | 10 |
| for single-phase motor | | | | |
| | | 120V | HP | 0.75 |

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, 3-PHASE MOTOR REVERSING SWITCH
20A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

240V HP 2

Ambient conditions

Temperature

Operating temperature

min °C -25
max °C +55

Storage temperature

min °C -40
max °C +70

Resistance & Protection

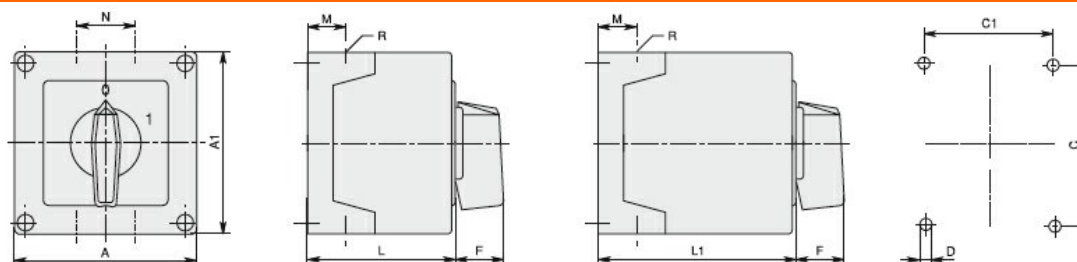
Frontal IP degree

IP65

Terminals IP degree

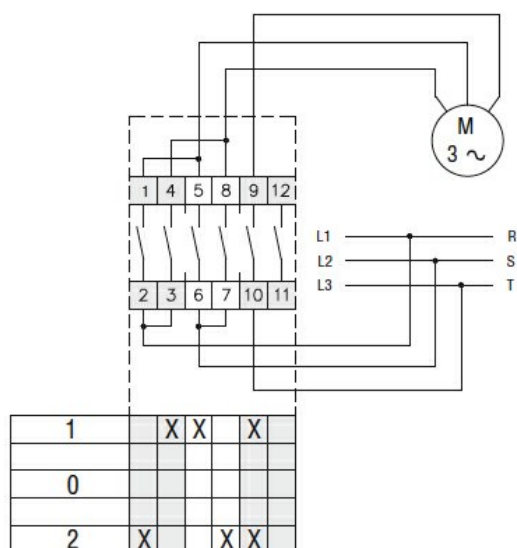
IP00

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 | 75x75 | 1 - 2 | 3 - 4 | 75 | 75 | 50 | 64 | 4.5 | 19 | 14 | 28 | 57.5 | 79.8 | 4xPG13.5 | IP65 |
| 7GN20 | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN25 | | 1 | 2 - 3 | | | | | | | | | | | | |
| 7GN12 | 90x90 | 1 - 3 | 4 - 6 | 90 | 90 | 79 | 63 | 4.5 | 25 | 19 | 30 | 71.3 | 98.3 | 4xPG16 | IP65 |
| 7GN20 | | 1 - 3 | 4 - 6 | | | | | | | | | | | | |
| 7GN25 | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN32 | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 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 | | 1 - 3 | 4 - 5 | | | | | | | | | | | | |
| 7GN40 | | 1 - 2 | 3 - 5 | | | | | | | | | | | | |
| 7GN63 | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN32 | 125x175 | 1 - 3 | 4 - 5 | 125 | 175 | 146 | 112 | 5.5 | 32 | 21 | 68 | 84.3 | 118.3 | 4xPG21 2xPG11 | IP65 |
| 7GN40 | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN63 | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |
| 7GN125 | | 1 | 2 | | | | | | | | | | | | |
| 7GN32 | 180x254 | 1 - 5 | 6 - 8 | 180 | 254 | 120 | 190 | 5.5 | 32 | 35 | 76 | 121 | 175 | 4xPG29 2xPG11 | IP65 |
| 7GN40 | | 1 - 4 | 5 - 7 | | | | | | | | | | | | |
| 7GN63 | | 1 - 3 | 4 - 6 | | | | | | | | | | | | |
| 7GN125 | | 1 - 2 | 3 - 4 | | | | | | | | | | | | |

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

EC001105 - Off-load switch