



Product designation

Rotary cam
switches
GN63

Product type designation

General characteristics

Switching diagram

91

N° of elements

1

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}

| | | |
|--------|---|----|
| UL/CSA | A | 60 |
|--------|---|----|

Rated operational voltage

| | |
|---|-----|
| V | 480 |
|---|-----|

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

| | | |
|------|---|----|
| 10kA | A | 63 |
| 25kA | A | 63 |
| 50kA | A | 63 |

Rated short time current I_{cw}

| | | |
|----|---|------|
| 1s | A | 1600 |
|----|---|------|

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
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 |

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 ² | 2.5 |
| Max | mm ² | 10 |

Conductor size (IEC) - Rigid cable

| | | |
|-----|-----------------|-----|
| min | mm ² | 2.5 |
| Max | mm ² | 16 |

Mechanical life cycles 5x10⁶

UL technical data

Motor power for direct-on-line control

for three-phase motor

| | | |
|------|----|----|
| 480V | HP | 25 |
|------|----|----|

Ambient conditions

Temperature

Operating temperature

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

Storage temperature

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

Resistance & Protection

Frontal IP degree IP40

Terminals IP degree IP00

ETIM classification

ETIM 8.0

EC001105 - Off-load switch