7GN2525P25



ENCLOSED ROTARY CAM SWITCH 7GN SERIES, 1-PHASE MOTOR REVERSING SWITCH WITH SPRING RETURN 25A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

| Product designation | | | Enclosed rotary cam switch |
|--|----------------------|-------|---|
| Product type designation | | | 7GN25 |
| General characteristics | | | |
| Switching diagram | | | 25 - 1-phase motor reversing switch with spring return |
| N° of elements | | | 2 |
| Mounting form | | | P25 - Plastic enclosure with red/yellow handle |
| Contact characteristics | | | |
| Rated insulation voltage Ui | | | |
| | IEC/EN | V | 690 |
| | UL/CSA | V | 600 |
| Rated impulse withstand voltage Uimp | | kV | 6 |
| Conventional free air thermal current Ith | | | |
| | IEC/EN | А | 25 |
| | UL/CSA | Α | 30 |
| Rated operational voltage | | V | 480 |
| Rated operational impulse voltage | | kV | 4 |
| Maximum fuse size for short-circuit protection In (gG) | | | |
| | 10kA | А | 25 |
| | 15kA | А | 25 |
| | 25kA | A | 25 |
| Rated short time current Icw | | | |
| | 1s | kA | 400 |
| Conductivity | | | 10/5 mA/V |
| Operational current le IEC/EN | | | |
| AC1/AC21A | | | <u>.</u> |
| | | A | 25 |
| AC15 | 4401/ | • | 4.0 |
| | 110V | A | 16 |
| | 220/230V | A | 12 |
| | 380/400∨ 660/690∨ | A | 8 |
| Dated anarational neuror in AC | 660/690V | A | 2 |
| Rated operational power in AC | | | |
| Three-phase AC-3 | 220/230V | kW | 5.5 |
| | 380/440V | kW | 7.5 |
| | 500/690V | kW | 7.5 |
| Single-phase AC-3 | 300/0301 | K V V | 1.5 |
| Single-phase A0-5 | 110V | kW | 1.5 |
| | 220/230V | kW | 3 |
| | 380/440V | kW | 5.5 |
| Three-phase AC23A | 000,1101 | | 0.0 |
| | 220/230V | kW | 6.5 |
| | 380/440V | kW | 11 |
| | 500/690V | kW | 11 |
| Single-phase AC23A | 200,0001 | | <u> </u> |
| | 110V | kW | 1.5 |
| | 220/230V | kW | 3.7 |
| | 380/440V | kW | 5.5 |
| | | | |

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| Rated operational current in DC 48V A 25 60V A 25 110V A 4 220V A 0.7 DC23A (poles in series) 24V A 25 (1) 48V A 25 (2) 60V A 25 (2) 60V A 25 (2) 60V A 25 (3) 110V A 12 (3) 20V A 10 (4) DC13 220V A 10 (4) 10 (4) DC13 24V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 Power dissipation W 1.1 100 A 1.5 100 Mechanical features Migric for terminals max Nm 0.8 10 1.5 Conductor size AWG - Rigid cable min Migric for terminals max Nm 0.8 Conductor size Gover flexible cab |
|---|
| 48V A 25 60V A 25 110V A 4 220V A 0.7 DC3A (poles in series) 24V A 25 (1) 48V A 25 (2) 60V A 25 (3) 110V A 12 (3) 220V A 10 (4) DC13 24V A 25 3 20V A 10 (4) 0.4 0.4 DC13 24V A 25 48V A 20 60V A 16 110V A 1.5 220V A 1.5 220V A 1.1 Mechanical features MM 3.5 Tightening torque for terminals max Nm 0.8 20 Max AWG 10 Conductor size MWG - Rigid cable min MWG 10 10 AWG - Flexible cable min AWG 12 20 12 |
| 60V A 25 110V A 4 220V A 0.7 DC23A (poles in series) 24V A 25 (1) 48V A 25 (2) 60V A 25 (3) 110V A 12 (3) 220V A 10 (4) DC13 24V A 25 48V A 20 60V A 10 (4) 200 60V A 16 DC13 24V A 25 48V A 20 60V A 1.5 220V A 0.4 Power dissipation W 1.1 1.1 Mechanical features M3.5 1.1 Tightening torque for terminals max Nm 0.8 Conductor size MG - Rigid cable Min AWG 20 Max AWG 10 AWG 20 Max AWG 10 AWG - Flexible cable min AWG 20 Max AWG 12 2 |
| 110V A 4 220V A 0.7 DC23A (poles in series) 24V A 25 (1) 48V A 25 (2) 60V A 25 (3) 110V A 12 (3) 220V A 10 (4) DC13 24V A 25 48V A 20 60V A 10 (4) 20 60V A 16 DC13 24V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 200 60V A 16 110V A 1.5 220V A 0.4 Power dissipation W 1.1 100 100 100 Mechanical features Minitical features Minitical features Minitical features 10 Conductor size AWG - Rigid cable Minitical features 10 10 MWG - Fle |
| Image: constraint of the series 220V A 0.7 DC23A (poles in series) 24V A 25 (1) 48V A 25 (2) 60V A 25 (3) 60V A 25 (3) 110V A 12 (3) 220V A 10 (4) 200 60V A 25 48V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 20 Power dissipation W A 1.5 220V A 0.4 Power dissipation W 1.1 1.5 220V A 0.4 Power dissipation W 1.1 1.5 220V A 0.4 Power dissipation W 1.1 1.5 200 1.5 Ightening torque for terminals max Nm 0.8 20 1.6 Conductor size Mid AWG 10 10 </td |
| DC23A (poles in series) 24V A 25 (1) 48V A 25 (2) 60V A 25 (3) 110V A 12 (3) 220V A 10 (4) DC13 24V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 Power dissipation W 1.1 Mechanical features M3.5 Tightening torque for terminals max Nm 0.8 Conductor size Max AWG 10 AWG - Rigid cable Max AWG 10 AWG - Flexible cable 12 Max AWG 12 |
| 24V A 25 (1) 48V A 25 (2) 60V A 25 (3) 110V A 12 (3) 220V A 10 (4) DC13 24V A 25 48V A 25 48V A 20 60V A 16 110V A 1.5 220V A 1.6 110V A 1.5 220V A 0.4 Power dissipation W 1.1 Mechanical features Min 0.8 Conductor size M/G - Rigid cable M/MG - Rigid cable Min AWG - Rigid cable M/Max A/WG AWG - Flexible cable min A/WG 20 Max A/WG 12 Conductor size (IEC) - Flexible cable min m/m |
| 48V A 25 (2) 60V A 25 (3) 110V A 12 (3) 220V A 10 (4) DC13 24V A 25 48V A 25 48V A 25 48V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 20V A 0.4 Power dissipation W 1.1 Wechanical features MM 0.8 Conductor size MWG - Rigid cable Min 0.8 MMG 10 AWG - Rigid cable Min AWG 10 Max AWG 10 AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm 0.5 10 |
| 60V A 25 (3) 110V A 12 (3) 220V A 10 (4) DC13 24V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 Power dissipation W 1.1 10 10 Mechanical features W 1.1 10 Tightening torque for terminals max Nm 0.8 0 Conductor size AWG - Rigid cable min AWG 20 Max AWG 10 10 10 AWG - Flexible cable min AWG 12 Conductor size (IEC) - Flexible cable min mm² 0.5 |
| 110V A 12 (3) 220V A 10 (4) DC13 24V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 Power dissipation W 1.1 Wechanical features W 1.1 Power dissipation screw W 1.1 Wechanical features M3.5 S Fightening torque for terminals max Nm 0.8 Conductor size M3.5 S Conductor size AWG - Rigid cable min AWG 10 A AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min min min 70.5 |
| 110V A 12 (3) 220V A 10 (4) DC13 24V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 Power dissipation W 1.1 Mechanical features W 1.1 Power dissipation torque for terminals max W 1.1 Mechanical features M3.5 M3.5 Fightening torque for terminals max Nm 0.8 0.4 0.4 0.4 Conductor size AWG - Rigid cable M3.5 M3.5 |
| Image: book state 220V A 10 (4) DC13 24V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 Power dissipation W 1.1 0.4 Power dissipation W 1.1 0.4 Power dissipation screw MM 0.4 0.4 Power dissipation screw MM 0.8 0.4 Conductor size MMG - Rigid cable MM 0.8 Conductor size MMG - Flexible cable MM AWG 10 AWG - Flexible cable MM AWG 12 12 Conductor size (IEC) - Flexible cable min min min 12 |
| DC13 24V A 25 48V A 20 60V A 16 110V A 1.5 220V A 0.4 Power dissipation W 1.1 Mechanical features W 1.1 Ferminals screw M3.5 Fightening torque for terminals max Nm 0.8 Conductor size MWG - Rigid cable min AWG 20 MWG - Flexible cable min AWG 20 Max AWG 10 12 Conductor size (IEC) - Flexible cable min mm² 0.5 |
| $\begin{array}{c c c c c c c } 24V & A & 25 \\ 48V & A & 20 \\ 60V & A & 16 \\ 110V & A & 1.5 \\ 220V & A & 0.4 \end{array}$ |
| $\begin{array}{c c c c c c c c c } & 48V & A & 20 \\ & 60V & A & 16 \\ & 110V & A & 1.5 \\ & 220V & A & 0.4 \\ \hline \end{array}$ |
| 60V A 16 110V A 1.5 220V A 0.4 Power dissipation W 1.1 Mechanical features W 1.1 Ferminals screw M3.5 Fightening torque for terminals max Nm 0.8 Conductor size AWG - Rigid cable min AWG 20 Max AWG 10 AWG - Rigid cable Max AWG 10 AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm² 0.5 |
| 110V A 1.5 220V A 0.4 Power dissipation W 1.1 Mechanical features M3.5 Terminals screw M3.5 Fightening torque for terminals max Nm 0.8 Conductor size AWG - Rigid cable min AWG 20 AWG - Flexible cable min AWG 10 AWG - Flexible cable min AWG 20 Max AWG 12 20 Conductor size (IEC) - Flexible cable min min min |
| 220V A 0.4 Power dissipation W 1.1 Mechanical features M3.5 Ferminals screw M3.5 Tightening torque for terminals max Nm 0.8 Conductor size AWG - Rigid cable min AWG 20 AWG - Flexible cable min AWG 10 AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm² 0.5 |
| Power dissipation W 1.1 Mechanical features M3.5 Terminals screw M3.5 Fightening torque for terminals max Nm 0.8 Conductor size AWG - Rigid cable <u>AWG - Rigid cable</u> <u>Max AWG 10</u> AWG - Flexible cable <u>min AWG 20</u> <u>Max AWG 10</u> <u>AWG 20</u> <u>Max AWG 12</u> Conductor size (IEC) - Flexible cable <u>min mm² 0.5</u> |
| Mechanical features M3.5 Terminals screw M3.5 Tightening torque for terminals max Nm 0.8 Conductor size AWG - Rigid cable min AWG 20 Max AWG 10 AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm² 0.5 |
| Ferminals screw M3.5 Fightening torque for terminals max Nm 0.8 Conductor size AWG - Rigid cable min AWG 20 Max AWG 10 10 10 AWG - Flexible cable min AWG 20 Max AWG 10 12 Conductor size (IEC) - Flexible cable min mm² 0.5 |
| Nm 0.8 Conductor size AWG - Rigid cable Min AWG 20 Max AWG 10 AWG - Flexible cable min AWG 20 Max AWG 10 12 Conductor size (IEC) - Flexible cable min mm² 0.5 |
| Conductor size AWG - Rigid cable min AWG 20 Max AWG 10 AWG - Flexible cable min AWG 20 Max AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm ² 0.5 |
| AWG - Rigid cable min AWG 20 Max AWG 10 AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm ² 0.5 |
| min AWG 20 Max AWG 10 AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm ² 0.5 |
| Max AWG 10 AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm² 0.5 |
| AWG - Flexible cable min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm ² 0.5 |
| min AWG 20 Max AWG 12 Conductor size (IEC) - Flexible cable min mm ² 0.5 |
| Max AWG 12 Conductor size (IEC) - Flexible cable min mm ² 0.5 |
| Conductor size (IEC) - Flexible cable min mm ² 0.5 |
| min mm² 0.5 |
| |
| May mm^2 4 |
| Max IIIII 4 |
| Conductor size (IEC) - Rigid cable |
| min mm ² 0.5 |
| Max mm ² 4 |
| Mechanical life cycles 5x10 ⁶ |
| JL technical data |
| Motor power for direct-on-line control |
| for three-phase motor |
| 120V HP 3 |
| |
| |
| 240V HP 5 |
| 240V HP 5 480V HP 10 |
| 240V HP 5 480V HP 10 600V HP 15 |
| 240V HP 5 480V HP 10 600V HP 15 for single-phase motor |
| 240V HP 5 480V HP 10 600V HP 15 for single-phase motor 120V HP 1.5 |
| 240V HP 5 480V HP 10 600V HP 15 for single-phase motor 120V HP 1.5 240V HP 3 |
| 240V HP 5 480V HP 10 600V HP 15 for single-phase motor 120V HP 1.5 240V HP 3 3 |
| 240V HP 5 480V HP 10 600V HP 15 for single-phase motor 120V HP 1.5 240V HP 3 |
| 240V HP 5 480V HP 10 600V HP 15 for single-phase motor 120V HP 1.5 240V HP 3 Ambient conditions Temperature Operating temperature |
| Ambient conditions Temperature Operating temperature $ \begin{array}{ccccccccccccccccccccccccccccccccccc$ |
| $\begin{array}{cccc} 240 & HP & 5 \\ 480 & HP & 10 \\ 600 & HP & 15 \end{array}$ for single-phase motor $\begin{array}{cccc} 120 & HP & 1.5 \\ 240 & HP & 3 \end{array}$ |
| 240VHP5480VHP10600VHP15for single-phase motor120VHP1.5240VHP3Ambient conditionsTemperaturemin °C -25Min °C -25max °C +55Storage temperature |
| $\begin{array}{cccc} 240V & HP & 5\\ 480V & HP & 10\\ 600V & HP & 15 \end{array}$ for single-phase motor $\begin{array}{cccc} 120V & HP & 1.5\\ 240V & HP & 3 \end{array}$ |

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IP65

IP00

C1



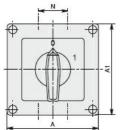
ENCLOSED ROTARY CAM SWITCH 7GN SERIES, 1-PHASE MOTOR REVERSING SWITCH WITH SPRING RETURN 25A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

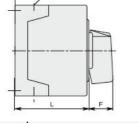
Resistance & Protection

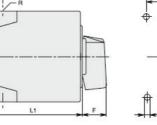
Frontal IP degree

Terminals IP degree

Dimensions



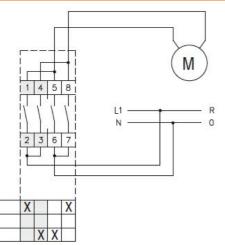




| , . | | 5 | - | | L1 | | | + | ≼ ₽ | - \$ ' | |
|-----|----|----|----|-------|--------|----|----|----------|------------|---------------|-------------------|
| | | | | Dimer | nsions | | | | | Cable | Protection |
| Α | A1 | C | C1 | D | F | М | N | L | L1 | entry | Protection degree |
| 75 | 75 | 50 | 64 | 4.5 | 19 | 14 | 28 | 57.5 | 79.8 | 4xPG13.5 | IP65 |
| 90 | 90 | 79 | 63 | 4.5 | 25 | 19 | 30 | 71.3 | 98.3 | 4xPG16 | IP65 |
| | | | | | | | | | | | |

| Series | Enclosure | Number o | f elements | | Dimensions | | | | | | | | | Cable | Protection |
|--------|-------------------------|----------|------------|-----|------------|------|-------|-----------|----|--------|-------|------|-------|----------|------------|
| Series | size | L | L1 | Α | A1 | C | C1 | D | F | M | N | L | L1 | entry | degree |
| 7GN12 | 75x75 | 1-2 | 3 - 4 | | | | | | | | | | | | |
| 7GN20 |] | 1-2 | 3 - 4 | 75 | 75 | 50 | 64 | 4.5 | 19 | 14 | 28 | 57.5 | 79.8 | 4xPG13.5 | IP65 |
| 7GN25 | 1 | 1 | 2-3 | | | | | | | | | | | | |
| 7GN12 | 90x90 | 1-3 | 4 - 6 | | | | | | | | | | | | |
| 7GN20 |] | 1-3 | 4 - 6 | | | | 10000 | 100000-00 | | 100000 | 10000 | | | | |
| 7GN25 | | 1-2 | 3 - 4 | 90 | 90 | 79 | 63 | 4.5 | 25 | 19 | 30 | 71.3 | 98.3 | 4xPG16 | IP65 |
| 7GN32 |] | 1-2 | 3 - 4 | | | | | | | | | | | | |
| 7GN40 | | 1 | 2 - 3 | | | | | | | | | | | | |
| 7GN12 | 110x110 | 1-4 | 5 - 8 | | | | 83 | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21 | IP65 |
| 7GN20 | | 1 - 4 | 5 - 8 | | | | | | | | | | | | |
| 7GN25 | 1 | 1-3 | 4 - 5 | 110 | 110 | 98.4 | | | | | | | | | |
| 7GN32 |] | 1-3 | 4 - 5 | 110 | 110 | 50.4 | | | | | | | | | |
| 7GN40 |] | 1-2 | 3 - 5 | | | | | | | | | | | | |
| 7GN63 | | 1-2 | 3 - 4 | | | | | | | | | | | | |
| 7GN32 | 125x175 | 1-3 | 4 - 5 | | | | | | | | | | | | |
| 7GN40 | 200.1210.020.000.0000 M | 1 - 2 | 3 - 4 | 125 | 175 | 146 | 112 | 5.5 | 32 | 21 | 68 | 84.3 | 118.3 | 4xPG21 | IP65 |
| 7GN63 |] | 1 - 2 | 3 - 4 | 125 | 1/5 | 140 | 112 | 5.5 | 32 | 21 | 00 | 04.3 | 110.3 | 2xPG11 | IP05 |
| 7GN125 | | 1 | 2 | | | | | | | | | | | | |
| 7GN32 | 180x254 | 1 - 5 | 6 - 8 | | | | | | | | | | | | |
| 7GN40 | | 1 - 4 | 5 - 7 | 180 | 054 | 120 | 190 | 5.5 | 32 | 35 | 76 | 121 | 175 | 4xPG29 | IP65 |
| 7GN63 |] | 1 - 3 | 4 - 6 | 180 | 254 | 120 | 190 | 5.5 | 32 | 35 | 70 | 121 | 1/5 | 2xPG11 | 100 |
| 7GN125 | | 1-2 | 3 - 4 | | | | | | | | | | | | |

Wiring diagrams



EAC

Certifications and compliance

Compliance

0 2

| Compliance | | |
|--------------|---------------------|--|
| | IEC/EN/BS 60947-1 | |
| | IEC/EN/BS 60947-3 | |
| | IEC/EN/BS 60947-5-1 | |
| Certificates | | |

ETIM classification

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ETIM 8.0

EC001029 -Selector switch, complete