

ENCLOSED ROTARY CAM SWITCH 7GN SERIES, STAR-DELTA MOTOR STARTER SWITCH 20A IN PLASTIC ENCLOSURE 75X75MM WITH BLACK HANDLE

| Product type designation | Product designation | | | | Enclosed rotary |
|--|-------------------------------|------------------|-----------|---------|-------------------------------|
| Switching diagram | _ | | | | |
| Switching diagram | | | | | 7GN20 |
| N° of elements 4 Mounting form P - Plastic enclosure with black handle Contact characteristics Rated insulation voltage Ui IEC/EN UL/CSA V 690 0UL/CSA V 600 Rated impulse withstand voltage Uimp kV 6 6 Conventional free air thermal current Ith IEC/EN UL/CSA A 20 UL/CSA A 16 UL/CSA UL/CSA A 16 UL/CSA UL/CS | | | | | motor starter |
| Mounting form P- Plastic enclosure with black handle Delack characteristics Contact characteristics Contact characteristics Contact characteristics Contact characteristics Contact characteristics Conventional five withstand voltage Uimp EC/EN V 690 Conventional free air thermal current ith Conventional free air thermal current ith Conventional five with stand voltage V 480 Conventional impulse voltage Con | N° of elements | | | | |
| Rated insulation voltage Uim IEC/EN UL/CSA V 690 UL/CSA V 600 Rated impulse withstand voltage Uimp Rated impulse withstand voltage Uimp IEC/EN A 20 Conventional free air thermal current Ith IEC/EN A 20 Rated operational voltage V 480 Rated operational impulse voltage Intelligence of the properties of the | Mounting form | | | | P - Plastic enclosure with |
| Rated impulse withstand voltage Uimp | | | | | |
| Name | Rated insulation voltage Ui | | | | |
| Rated impulse withstand voltage Uimp | | | | | |
| Conventional free air thermal current Ith | Data diamenda a mithata a dia | alta a a I l'ann | UL/CSA | | |
| IEC/EN | | | | KV | 6 |
| Rated operational voltage V | Conventional free air therm | ial current ith | IEC/EN | ۸ | 20 |
| Rated operational voltage V | | | | | |
| Rated operational impulse voltage | Rated operational voltage | | OLICOA | | |
| Maximum fuse size for short-circuit protection In (gG) 10kA A 20 15kA A 16 25kA A 16 Rated short time current lcw 1s kA 250 Conductivity 1s KA 250 Conductivity AC1/AC21A 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 Single-phase AC-3 Three-phase AC-3 Three-phase AC-3 Three-phase AC23A Three-phase AC23A Three-phase AC23A AC20/230V kW 0.8 220/230V kW 0.8 | | voltage | | | |
| 10kA | | | | | <u> </u> |
| 15kA | | (90) | 10kA | Α | 20 |
| Rated short time current low | | | | Α | |
| 1s | | | 25kA | Α | 16 |
| Conductivity | Rated short time current lo | w | | | |
| Operational current le IEC/EN AC1/AC21A 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 220/230V kW 3 380/440V kW 5.5 500/690V kW 5.5 | | | 1s | kA | 250 |
| AC1/AC21A AC15 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 220/230V kW 3 220/230V kW 7.5 500/690V kW 7.5 | Conductivity | | | | 10/5 mA/V |
| AC15 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 220/230V kW 3 220/230V kW 7.5 500/690V kW 5.5 | | | | | |
| 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 220/230V kW 3 220/230V kW 7.5 500/690V kW 7.5 | AC | C1/AC21A | | | |
| 110V | | | | Α | 20 |
| 220/230V | AC | C15 | 440)/ | | 4.0 |
| Rated operational power in AC Three-phase AC-3 220/230V kW 3 380/440V kW 5.5 500/690V kW 5.5 | | | | | |
| 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 220/230V kW 5.5 220/230V kW 7.5 500/690V kW 7.5 | | | | | |
| 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 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 | | | | | |
| 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 220/230V kW 5 380/440V kW 5 500/690V kW 7.5 500/690V kW 7.5 | Rated operational power in |) AC | 000/090 V | | 1.5 |
| 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 220/230V kW 5 380/440V kW 5 380/440V kW 7.5 500/690V kW 7.5 | | | | | |
| 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 220/230V kW 5 380/440V kW 5 500/690V kW 7.5 | 11 | | 220/230V | kW | 3 |
| 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 220/230V kW 5 380/440V kW 5 380/440V kW 7.5 500/690V kW 7.5 | | | | | |
| 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 | | | | | |
| 110V kW 0.8 220/230V kW 2.2 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 | Si | ngle-phase AC-3 | | | |
| 380/440V kW 3 Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 | | | 110V | kW | 0.8 |
| Three-phase AC23A 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 | | | 220/230V | kW | 2.2 |
| 220/230V kW 5 380/440V kW 7.5 500/690V kW 7.5 | | | 380/440V | kW | 3 |
| 380/440V kW 7.5 500/690V kW 7.5 | Th | ree-phase AC23A | | | |
| 500/690V kW 7.5 | | | | | |
| | | | | | |
| Oinele where ACCOA | | | 500/690V | KVV | 1.5 |
| Single-phase AC23A | Sı | ngie-pnase AC23A | 440\/ | J-1.0.1 | 0.0 |
| 110V kW 0.8 220/230V kW 2.5 | | | | | |
| 380/440V kW 3.7 | | | | | |
| Rated operational current in DC | Rated operational current i | n DC | 333, 1.34 | | |





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| | Books | | | |
|--------------------------------|---|---------------------|---|-------------------|
| | DC21A | 401/ | | 00 |
| | | 48V | A | 20 |
| | | 60V | Α | 20 |
| | | 110V | Α | 4 |
| | | 220V | Α | 0.6 |
| | | 440V | Α | 0.25 |
| | DC23A (poles in series) | | | |
| | | 24V | Α | 20 (1) |
| | | 48V | Α | 20 (2) |
| | | 60V | Α | 20 (3) |
| | | 110V | Α | 10 (3) |
| | | 220V | Α | 8 (4) |
| | DC13 | | | |
| | | 24V | Α | 20 |
| | | 48V | Α | 16 |
| | | 60V | Α | 12 |
| | | 110V | Α | 1 |
| | | 220V | Α | 0.4 |
| | | 440V | Α | 0.15 |
| Power dissipation | | | W | 0.8 |
| Mechanical features | | | • | 0.0 |
| Terminals screw | | | | M3 |
| Tightening torque for te | rminals max | | Nm | 0.5 |
| Conductor size | THINIAIS THAX | | 1 1111 | 0.0 |
| Conductor Size | AWG - Rigid cable | | | |
| | AWG - Rigid Cable | min | AWG | 20 |
| | | Max | AWG | 12 |
| | AWG - Flexible cable | IVIAX | AWG | 12 |
| | AVVG - Flexible cable | | A1A/O | 00 |
| | | min | AWG | 20 |
| | 0 1 (10) 5 11 | Max | AWG | 14 |
| | Conductor size (IEC) - Flexible cable | | | |
| | | min | mm² | 0.5 |
| | | Max | mm² | 2.5 |
| | Conductor size (IEC) - Rigid cable | | | |
| | | min | mm² | 0.5 |
| | | Max | mm² | 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 | 600V | HP | 10 |
| | for single-phase motor | 600V 120V | HP HP | 0.75 |
| | for single-phase motor | | | |
| Ambient conditions | for single-phase motor | 120V | HP | 0.75 |
| Ambient conditions Temperature | for single-phase motor | 120V | HP | 0.75 |
| Ambient conditions Temperature | | 120V | HP | 0.75 |
| | for single-phase motor Operating temperature | 120V 240V | HP HP | 0.75 2 |
| | | 120V 240V min | HP HP | 0.75 2 |
| | Operating temperature | 120V 240V | HP HP | 0.75 2 |
| | | 120V 240V min | HP HP | 0.75 2 |

ENERGY AND AUTOMATION

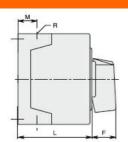
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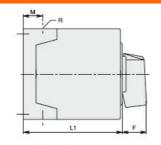
Resistance & Protection
Frontal IP degree

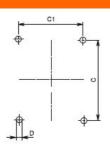
Terminals IP degree

IP00

Dimensions

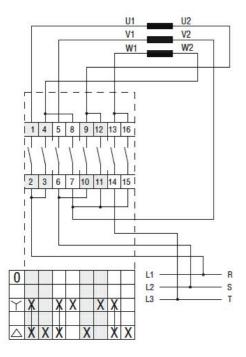






| Conica | Enclosure size | Number o | f elements | Dimensions | | | | | | | | | | Cable | Protection |
|--------|-------------------|----------|------------|------------|--------|--------|-------|----------|--------|------|------|------|----------|-------------|-------------------|
| Series | | L | L1 | Α | A1 | C | C1 | D | F | M | N | L | L1 | entry | Protection 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 | 2-3 | | | | | | | | | | | | |
| 7GN12 | 90x90 | 1-3 | 4 - 6 | | | | | | | | | | | | |
| 7GN20 | 1 | 1-3 | 4 - 6 | | | | | | | | | | | | |
| 7GN25 | 1 | 1-2 | 3 - 4 | 90 | 90 | 79 | 63 | 4.5 | 25 | 19 | 30 | 71.3 | 98.3 | 4xPG16 | IP65 |
| 7GN32 | 1 | 1-2 | 3 - 4 | 3,550.1 | 2000.0 | 53.905 | 19900 | 131.0000 | 50-853 | 2000 | | | 10000000 | 34.0-220000 | 0.0000000 |
| 7GN40 | | 1 | 2-3 | | | | | | | | | | | | |
| 7GN12 | 110x110 | 1-4 | 5 - 8 | | | | | | | | | | | | - |
| 7GN20 | | 1 - 4 | 5 - 8 | | | | | | | | | | | | |
| 7GN25 | 1 | 1-3 | 4 - 5 | 440 | 440 | 00.4 | 83 | 4.5 | 32 | 04 | 20.5 | 05.5 | 110 5 | 40004 | IDOC |
| 7GN32 | 1 | 1-3 | 4 - 5 | 110 | 110 | 98.4 | 83 | 4.5 | 32 | 21 | 39.5 | 85.5 | 119.5 | 4xPG21 | IP65 |
| 7GN40 | 1 | 1-2 | 3-5 | | | | | | | | | | | | |
| 7GN63 | 1 | 1-2 | 3 - 4 | | | | | | | | | | | | |
| 7GN32 | 125x175 | 1-3 | 4 - 5 | | | | | | | | | | | | |
| 7GN40 | | 1-2 | 3 - 4 | 405 | 475 | 440 | 440 | | | 0.4 | -00 | 040 | 4400 | 4xPG21 | IDOE |
| 7GN63 | 1 | 1 - 2 | 3 - 4 | 125 | 175 | 146 | 112 | 5.5 | 32 | 21 | 68 | 84.3 | 118.3 | 2xPG11 | IP65 |
| 7GN125 | | 1 | 2 | | | | | | | | | | | | |
| 7GN32 | 180x254 | 1-5 | 6-8 | | | | | | | | | | | | |
| 7GN40 | | 1 - 4 | 5 - 7 | 100 | 054 | 100 | 100 | | 20 | 25 | 70 | 404 | 175 | 4xPG29 | IDCE |
| 7GN63 | 1 | 1-3 | 4 - 6 | 180 | 254 | 120 | 190 | 5.5 | 32 | 35 | 76 | 121 | 175 | 2xPG11 | IP65 |
| 7GN125 | | 1-2 | 3 - 4 | | | | | | | | | | | | |

Wiring diagrams



Certifications and compliance

Compliance



ENERGY AND AUTOMATION

7GN2012P

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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