

## 7GN2505P25 ENCLOSED ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 25A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

| UL         Rated impulse withstand voltage Uimp         Conventional free air thermal current lth         IE         Rated operational voltage         Rated operational impulse voltage         Maximum fuse size for short-circuit protection ln (gG)         Rated short time current lcw         Conductivity         Operational current le IEC/EN         AC1/AC21A       AC15         220/       380/         660/       Rated operational power in AC         Three-phase AC-3   | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>15kA   | V<br>V<br>kV<br>A<br>A<br>V<br>kV<br>A<br>A<br>A<br>A | cam switch<br>7GN25<br>05 - ON/OFF<br>switch 1 pole<br>1<br>P25 - Plastic<br>enclosure with<br>red/yellow handle<br>690<br>600<br>6<br>25<br>30<br>480<br>4<br>25<br>25<br>25<br>25<br>25                           |
|--|---|---|---|
| General characteristics         Switching diagram         N° of elements         Mounting form         Contact characteristics         Rated insulation voltage Ui         IE         UL         Rated impulse withstand voltage Uimp         Conventional free air thermal current Ith         IE         Rated operational voltage         Rated operational impulse voltage         Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw         Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220/         380/         660/         Rated operational power in AC         Three-phase AC-3         220/  | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>I5kA   | V<br>kV<br>A<br>A<br>kV<br>A<br>A                     | 05 - ON/OFF<br>switch 1 pole<br>1<br>P25 - Plastic<br>enclosure with<br>red/yellow handle<br>690<br>600<br>6<br>25<br>30<br>480<br>4<br>25<br>25<br>25<br>25<br>25  |
| Switching diagram         N° of elements         Mounting form         Contact characteristics         Rated insulation voltage Ui         IE         UL         Rated impulse withstand voltage Uimp         Conventional free air thermal current Ith         IE         UL         Rated operational voltage         Rated operational impulse voltage         Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw         Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220/         380/         660/         Rated operational power in AC         Three-phase AC-3         220/   | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>I5kA   | V<br>kV<br>A<br>A<br>kV<br>A<br>A                     | switch 1 pole<br>1<br>P25 - Plastic<br>enclosure with<br>red/yellow handle<br>690<br>600<br>6<br>25<br>30<br>480<br>4<br>25<br>25<br>25<br>25<br>25   |
| N° of elements Mounting form Contact characteristics Rated insulation voltage Ui Rated impulse withstand voltage Uimp Conventional free air thermal current lth IE UL Rated operational voltage Rated operational impulse voltage Maximum fuse size for short-circuit protection ln (gG) Rated short time current lcw Conductivity Operational current le IEC/EN AC1/AC21A AC15 220/ 380/ 660/ Rated operational power in AC Three-phase AC-3 220/   | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>I5kA   | V<br>kV<br>A<br>A<br>kV<br>A<br>A                     | 1<br>P25 - Plastic<br>enclosure with<br>red/yellow handle<br>690<br>600<br>6<br>25<br>30<br>480<br>4<br>25<br>25<br>25<br>25<br>25  |
| Mounting form         Contact characteristics         Rated insulation voltage Ui         IE         UL         Rated impulse withstand voltage Uimp         Conventional free air thermal current Ith         IE         UL         Rated operational voltage         Rated operational impulse voltage         Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw         Conductivity         Operational current Ie IEC/EN         AC1/AC21A         AC15         220/         380/         660/         Rated operational power in AC         Three-phase AC-3         220/  | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>I5kA   | V<br>kV<br>A<br>A<br>kV<br>A<br>A                     | P25 - Plastic<br>enclosure with<br>red/yellow handle<br>690<br>600<br>6<br>25<br>30<br>480<br>4<br>25<br>25<br>25<br>25<br>25   |
| Contact characteristics         Rated insulation voltage Ui         IE         UL         Rated impulse withstand voltage Uimp         Conventional free air thermal current Ith         IE         UL         Rated operational voltage         Rated operational voltage         Rated operational impulse voltage         Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw         Conductivity         Operational current Ie IEC/EN         AC1/AC21A         AC15         220/         380/         660/         Rated operational power in AC         Three-phase AC-3   | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>I5kA   | V<br>kV<br>A<br>A<br>kV<br>A<br>A                     | enclosure with<br>red/yellow handle<br>690<br>600<br>6<br>25<br>30<br>480<br>4<br>25<br>25<br>25<br>25<br>25  |
| Contact characteristics         Rated insulation voltage Ui         IE         UL         Rated impulse withstand voltage Uimp         Conventional free air thermal current Ith         IE         UL         Rated operational voltage         Rated operational impulse voltage         Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw         Conductivity         Operational current Ie IEC/EN         AC1/AC21A         AC15         220/         Rated operational power in AC         Three-phase AC-3         220/  | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>I5kA   | V<br>kV<br>A<br>A<br>kV<br>A<br>A                     | red/yellow handle   |
| Rated insulation voltage Ui       IE         Rated impulse withstand voltage Uimp       UL         Conventional free air thermal current Ith       IE         Rated operational voltage       UL         Rated operational impulse voltage       Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw       Conductivity         Operational current le IEC/EN       AC1/AC21A         AC15       220/         Rated operational power in AC       Three-phase AC-3   | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>I5kA   | V<br>kV<br>A<br>A<br>kV<br>A<br>A                     | 690<br>600<br>6<br>25<br>30<br>480<br>4<br>4<br>25<br>25<br>25<br>25  |
| IE         Rated impulse withstand voltage Uimp         Conventional free air thermal current Ith         IE         UL         Rated operational voltage         Rated operational impulse voltage         Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw         Conductivity         Operational current Ie IEC/EN         AC1/AC21A         AC15         220/         380/<660/   | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>I5kA   | V<br>kV<br>A<br>A<br>kV<br>A<br>A                     | 600         6         25         30         480         4         25         25         25         25         25         25         25         25         25         25         25         25         25         25 |
| UL       Rated impulse withstand voltage Uimp         Conventional free air thermal current lth       IE         Rated operational voltage       UL         Rated operational impulse voltage       Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw       Conductivity         Operational current le IEC/EN       AC1/AC21A         AC15       220/.380/.660/         Rated operational power in AC       Three-phase AC-3         Z20/.       220/.  | CSA<br>I<br>C/EN<br>CSA<br>I<br>0kA<br>I5kA   | V<br>kV<br>A<br>A<br>kV<br>A<br>A                     | 600         6         25         30         480         4         25         25         25         25         25         25         25         25         25         25         25         25         25         25 |
| Rated impulse withstand voltage Uimp         Conventional free air thermal current Ith         IE         UL         Rated operational voltage         Rated operational impulse voltage         Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw         Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220/.380/.660/         Rated operational power in AC         Three-phase AC-3         220/.   | I<br>C/EN<br>CSA<br>I<br>I<br>0kA<br>I<br>5kA | kV<br>A<br>A<br>V<br>kV<br>A<br>A                     | 6<br>25<br>30<br>480<br>4<br>25<br>25<br>25<br>25   |
| Conventional free air thermal current Ith IE UL Rated operational voltage Rated operational impulse voltage Maximum fuse size for short-circuit protection In (gG) Rated short time current Icw Conductivity Operational current le IEC/EN AC1/AC21A AC15 220/ 380/ 660/ Rated operational power in AC Three-phase AC-3 220/   | C/EN<br>CSA<br>I<br>I<br>OkA<br>I<br>5kA      | A<br>A<br>V<br>kV<br>A<br>A                           | 25<br>30<br>480<br>4<br>25<br>25<br>25<br>25  |
| IE         Rated operational impulse voltage       Maximum fuse size for short-circuit protection ln (gG)         Rated short time current lcw       Image: Conductivity         Operational current le IEC/EN       AC1/AC21A         AC15       220/.380/.660/.         Rated operational power in AC       Three-phase AC-3   | CSA<br>I<br>I0kA<br>I5kA                      | A<br>V<br>kV<br>A<br>A                                | 30<br>480<br>4<br>25<br>25<br>25<br>25  |
| Image: Construct of the second sec | CSA<br>I<br>I0kA<br>I5kA                      | A<br>V<br>kV<br>A<br>A                                | 30<br>480<br>4<br>25<br>25<br>25<br>25  |
| Rated operational voltage         Rated operational impulse voltage         Maximum fuse size for short-circuit protection In (gG)         Rated short time current Icw         Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220/.         380/.         660/.         Rated operational power in AC         Three-phase AC-3         220/.         220/.   | <br> 0kA<br> 5kA                              | V<br>kV<br>A<br>A                                     | 480<br>4<br>25<br>25<br>25<br>25  |
| Rated operational impulse voltage         Maximum fuse size for short-circuit protection In (gG)         Rated short time current lcw         Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220/380/         Rated operational power in AC         Three-phase AC-3         220/2  | 1<br>10kA<br>15kA                             | kV<br>A<br>A  | 4<br>25<br>25<br>25   |
| Maximum fuse size for short-circuit protection In (gG)          Rated short time current Icw         Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220/.380/.660/.         Rated operational power in AC         Three-phase AC-3         220/.  | 10kA<br>15kA                                  | A<br>A  | 25<br>25<br>25  |
| Rated short time current Icw       Conductivity       Operational current le IEC/EN       AC1/AC21A       AC15       220/.       380/.       660/.       Rated operational power in AC       Three-phase AC-3       220/.  | 15kA  | А   | 25<br>25  |
| Rated short time current lcw         Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220//<br>380//<br>660//         Rated operational power in AC         Three-phase AC-3         220//  | 15kA  | А   | 25<br>25  |
| Rated short time current lcw         Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220/         380/         660/         Rated operational power in AC         Three-phase AC-3         220/  |   |   | 25  |
| Rated short time current lcw         Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220//380//660//         Rated operational power in AC         Three-phase AC-3         220//200//200//200//200//200//200//200   | 25KA  | A   |   |
| Conductivity         Operational current le IEC/EN         AC1/AC21A         AC15         220/.380/.660/.         Rated operational power in AC         Three-phase AC-3         220/.   |   |   |   |
| Operational current le IEC/EN<br>AC1/AC21A<br>AC15<br>220/<br>380/<br>660/<br>Rated operational power in AC<br>Three-phase AC-3<br>220/  | 1s  | kA  | 400   |
| Operational current le IEC/EN<br>AC1/AC21A<br>AC15<br>220/<br>380/<br>660/<br>Rated operational power in AC<br>Three-phase AC-3<br>220/  | 15 1  | KA .  | 10/5 mA/V   |
| AC1/AC21A<br>AC15<br>220/<br>380/<br>660/<br>Rated operational power in AC<br>Three-phase AC-3<br>220/   |   |   | 10/3 117/ 1   |
| AC15<br>220/<br>380/<br>660/<br>Rated operational power in AC<br>Three-phase AC-3<br>220/  |   |   |   |
| 220/<br>380/<br>660/<br>Rated operational power in AC<br>Three-phase AC-3<br>220/  |   | А   | 25  |
| 220/<br>380/<br>660/<br>Rated operational power in AC<br>Three-phase AC-3<br>220/  |   |   | -   |
| Rated operational power in AC<br>Three-phase AC-3<br>220/2   | 110V  | А   | 16  |
| Rated operational power in AC<br>Three-phase AC-3<br>220/2   | 230V  | А   | 12  |
| Rated operational power in AC<br>Three-phase AC-3<br>220/2   | 400V  | Α   | 8   |
| Three-phase AC-3   | 690V  | А   | 2   |
| 220/   |   |   |   |
|  |   |   |   |
| 280/   |   | ٢W  | 5.5   |
|  |   | ٢W  | 7.5   |
| 500/   | 690V k  | ٨W  | 7.5   |
| Single-phase AC-3  |   |   |   |
|  |   | W)<br>۸۸  | 1.5   |
| 220/   |   | W)<br>۸۸  | 3   |
| 380/   | 14UV K  | ٢W  | 5.5   |
| Three-phase AC23A  |   | ٧W  | 6.5   |
|  | 20// r  | <w<br>W</w<br>  | 0.5<br>11   |
|  |   | <w<br><w< td=""><td>11</td></w<></w<br>               | 11  |
| Single-phase AC23A   | 140V k  |   |   |
|  | 140V k  | ٧W  | 1.5   |
| 220/   | 140V k<br>890V k                              |   | 3.7   |
| 380/   | 140V k<br>390V k<br>110V k                    | ٨W  | 5.5   |

## Rated operational current in DC

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ENERGY AND AUTOMATION

OVE

|                          | DC21A                                 |      |        |                   |
|--------------------------|---------------------------------------|------|--------|-------------------|
|                          |                                       | 48V  | А      | 25                |
|                          |                                       | 60V  | А      | 25                |
|                          |                                       | 110V | А      | 4                 |
|                          |                                       | 220V | А      | 0.7               |
|                          | DC23A (poles in series)               |      |        |                   |
|                          | u i                                   | 24V  | А      | 25 (1)            |
|                          |                                       | 48V  | А      | 25 (2)            |
|                          |                                       | 60V  | А      | 25 (3)            |
|                          |                                       | 110V | А      | 12 (3)            |
|                          |                                       | 220V | А      | 10 (4)            |
|                          | DC13                                  |      |        |                   |
|                          |                                       | 24V  | А      | 25                |
|                          |                                       | 48V  | А      | 20                |
|                          |                                       | 60V  | А      | 16                |
|                          |                                       | 110V | A      | 1.5               |
|                          |                                       | 220V | A      | 0.4               |
| Power dissipation        |                                       |      | W      | 1.1               |
| Mechanical features      |                                       |      |        |                   |
| Terminals screw          |                                       |      |        | M3.5              |
| Tightening torque for te | arminals may                          |      | Nm     | 0.8               |
| Conductor size           |                                       |      |        | 0.0               |
|                          | AWG - Rigid cable                     |      |        |                   |
|                          | AWG - Rigid Cable                     | min  | AWG    | 20                |
|                          |                                       |      |        |                   |
|                          |                                       | Max  | AWG    | 10                |
|                          | AWG - Flexible cable                  |      |        | 00                |
|                          |                                       | min  | AWG    | 20                |
|                          |                                       | Max  | AWG    | 12                |
|                          | Conductor size (IEC) - Flexible cable |      |        |                   |
|                          |                                       | min  | mm²    | 0.5               |
|                          |                                       | Max  | mm²    | 4                 |
|                          | Conductor size (IEC) - Rigid cable    |      |        |                   |
|                          |                                       | min  | mm²    | 0.5               |
|                          |                                       | Max  | mm²    | 4                 |
| Mechanical life          |                                       |      | cycles | 5x10 <sup>6</sup> |
| UL technical data        |                                       |      |        |                   |
| Motor power for direct-  | on-line control                       |      |        |                   |
|                          | for three-phase motor                 |      |        |                   |
|                          |                                       | 120V | 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                 |      |        |                   |
|                          |                                       | min  | °C     | -25               |
|                          |                                       | max  | °Č     | +55               |
|                          | Storage temperature                   |      | ~      |                   |
|                          |                                       | min  | °C     | -40               |
|                          |                                       | max  | °C     | +70               |
|                          |                                       |      | -      | · -               |
| Resistance & Protectio   | n                                     |      |        |                   |

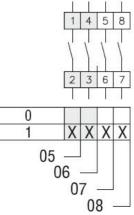


## 7GN2505P25 ENCLOSED ROTARY CAM SWITCH 7GN SERIES, ON-OFF SWITCH 1 POLE 25A IN PLASTIC ENCLOSURE 90X90MM WITH RED/YELLOW HANDLE

ENERGY AND AUTOMATION

| Terminals IP degree IP00                                   |   |     |     |      |     |            |             |    | IP65<br>IP00 |        |       |                  |                      |  |
|--|---|-----|-----|------|-----|------------|-------------|----|--------------|--------|-------|------------------|----------------------|--|
| Dimensions   |   |     |     |      |     |            |             |    |              |        |       |                  |                      |  |
|  |   |     |     |      | -   |            | R<br>       |    | F            | -<br>- |       | °                | i.                   |  |
| Series Enclosur  | e Number of elements  | A   | A1  | С    | C1  | Dimer<br>D | isions<br>F | М  | N            |        | L1    | Cable<br>entry   | Protection<br>degree |  |
| 7GN12 75x75<br>7GN20<br>7GN25                              | 1-2 3-4<br>1-2 3-4<br>1 2-3   | 75  | 75  | 50   | 64  | 4.5        | 19          | 14 | 28           | 57.5   | 79.8  | 4xPG13.5         | IP65                 |  |
| 7GN12 90x90<br>7GN20<br>7GN25<br>7GN32<br>7GN40            | 1-3         4-6           1-3         4-6           1-2         3-4           1-2         3-4           1-2         3-4           1         2-3 | 90  | 90  | 79   | 63  | 4.5        | 25          | 19 | 30           | 71.3   | 98.3  | 4xPG16           | IP65                 |  |
| 7GN12 110x110<br>7GN20<br>7GN25<br>7GN32<br>7GN40<br>7GN63 | $ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$   | 110 | 110 | 98.4 | 83  | 4.5        | 32          | 21 | 39.5         | 85.5   | 119.5 | 4xPG21           | IP65                 |  |
| 7GN32 125x175<br>7GN40<br>7GN63<br>7GN125                  | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$  | 125 | 175 | 146  | 112 | 5.5        | 32          | 21 | 68           | 84.3   | 118.3 | 4xPG21<br>2xPG11 | IP65                 |  |
| 7GN32<br>7GN40<br>7GN63<br>7GN125                          | 1-5         6-8           1-4         5-7           1-3         4-6           1-2         3-4   | 180 | 254 | 120  | 190 | 5.5        | 32          | 35 | 76           | 121    | 175   | 4xPG29<br>2xPG11 | IP65                 |  |

Wiring diagrams



| 08                     |                     |  |
|------------------------|---------------------|--|
| Certifications and cor | mpliance            |  |
| 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 -<br>Selector switch,<br>complete |

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