

|  |  |  |  |    |     |
|--|--|--|--|----|-----|
| Product designation                                    |  |  | Rotary cam switches  |    |     |
| Product type designation                               |  |  | 7GN20  |    |     |
| General characteristics                                |  |  |  |    |     |
| Switching diagram                                      |  |  | 20 - Dahlander motor 2-speed reversing switch  |    |     |
| N° of elements   |  |  | 6  |    |     |
| Mounting form  |  |  | O98 - Rear mounting with red/yellow handle padlockable in 0, door coupling and protection covers |    |     |
| 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   | A  | 20  |
|  |  |  | UL/CSA   | A  | 20  |
| Rated operational voltage                              |  |  |  | V  | 480 |
| Rated operational impulse voltage                      |  |  |  | kV | 4   |
| Maximum fuse size for short-circuit protection In (gG) |  |  | 10kA   | A  | 20  |
|  |  |  | 15kA   | A  | 16  |
|  |  |  | 25kA   | A  | 16  |
| Rated short time current Icw                           |  |  | 1s   | kA | 250 |
| Conductivity   |  |  | 10/5 mA/V  |    |     |
| Operational current Ie 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                                      |  |  | 220/230V   | kW | 5   |
|  |  |  | 380/440V   | kW | 7.5 |
|  |  |  | 500/690V   | kW | 7.5 |
| Single-phase AC23A                                     |  |  |  |    |     |

ROTARY CAM SWITCH 7GN SERIES, DAHLANDER MOTOR 2-SPEED REVERSING SWITCH  
20A, FOR REAR MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR  
COUPLING AND PROTECTION COVERS, FRONT PLATE: 65X65

|  |          |                 |                   |
|--|----------|-----------------|-------------------|
|  | 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 <sup>2</sup> | 0.5               |
|  | Max      | mm <sup>2</sup> | 2.5               |
| Conductor size (IEC) - Rigid cable     |          |                 |                   |
|  | min      | mm <sup>2</sup> | 0.5               |
|  | Max      | mm <sup>2</sup> | 2.5               |
| Mechanical life                        |          | cycles          | 5x10 <sup>6</sup> |
| 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              |
|  | 240V     | HP              | 2                 |
| Ambient conditions                     |          |                 |                   |
| Temperature                            |          |                 |                   |
| Operating temperature                  |          |                 |                   |

ROTARY CAM SWITCH 7GN SERIES, DAHLANDER MOTOR 2-SPEED REVERSING SWITCH 20A, FOR REAR MOUNTING WITH RED/YELLOW HANDLE PADLOCKABLE IN 0, DOOR COUPLING AND PROTECTION COVERS, FRONT PLATE: 65X65

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

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

#### Resistance & Protection

Frontal IP degree IP40

Terminals IP degree IP00

#### ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete