

|                                                        |  |  |                                               |      |          |
|--------------------------------------------------------|--|--|-----------------------------------------------|------|----------|
| Product designation                                    |  |  | Rotary cam switches                           |      |          |
| Product type designation                               |  |  | GN315                                         |      |          |
| General characteristics                                |  |  |                                               |      |          |
| Switching diagram                                      |  |  | 20 - Dahlander motor 2-speed reversing switch |      |          |
| N° of elements                                         |  |  | 6                                             |      |          |
| Mounting form                                          |  |  | U - Front mounting with black handle          |      |          |
| Contact characteristics                                |  |  |                                               |      |          |
| Rated insulation voltage Ui                            |  |  | IEC/EN                                        | V    | 690      |
|                                                        |  |  | UL/CSA                                        | V    | 600      |
| Rated impulse withstand voltage Uimp                   |  |  | kV                                            | 8    |          |
| Conventional free air thermal current Ith              |  |  | IEC/EN                                        | A    | 315      |
|                                                        |  |  | UL/CSA                                        | A    | 255      |
| Rated operational voltage                              |  |  | V                                             | 690  |          |
| Rated operational impulse voltage                      |  |  | kV                                            | 6    |          |
| Maximum fuse size for short-circuit protection In (gG) |  |  | 10kA                                          | A    | 315      |
|                                                        |  |  | 15kA                                          | A    | 315      |
| Rated short time current Icw                           |  |  | 1s                                            | kA   | 5200     |
| Operational current Ie IEC/EN<br>AC1/AC21A             |  |  | A                                             | 315  |          |
| Rated operational power in AC<br>Three-phase AC-3      |  |  | 220/230V                                      | kW   | 37       |
|                                                        |  |  | 380/440V                                      | kW   | 55       |
|                                                        |  |  | 500/690V                                      | kW   | 69       |
| Single-phase AC-3                                      |  |  | 110V                                          | kW   | 11       |
|                                                        |  |  | 220/230V                                      | kW   | 22       |
|                                                        |  |  | 380/440V                                      | kW   | 30       |
| Rated operational current in DC<br>DC21A               |  |  | 48V                                           | A    | 200      |
|                                                        |  |  | 60V                                           | A    | 200      |
|                                                        |  |  | 110V                                          | A    | 35       |
|                                                        |  |  | 220V                                          | A    | 2.5      |
|                                                        |  |  | 440V                                          | A    | 0.9      |
| Power dissipation                                      |  |  | W                                             | 64.5 |          |
| Mechanical features                                    |  |  |                                               |      |          |
| Terminals screw                                        |  |  | M10                                           |      |          |
| Tightening torque for terminals max                    |  |  | Nm                                            | 10   |          |
| Conductor size                                         |  |  | AWG - Rigid cable                             |      |          |
|                                                        |  |  | Max                                           | AWG  | 1XMCM350 |
| AWG - Flexible cable                                   |  |  |                                               |      |          |

|                                       |     |                 |                   |
|---------------------------------------|-----|-----------------|-------------------|
|                                       | Max | AWG             | 1XMCM350          |
| Conductor size (IEC) - Flexible cable | Max | mm <sup>2</sup> | 1X185             |
| Conductor size (IEC) - Rigid cable    | Max | mm <sup>2</sup> | 1X185             |
| Mechanical life                       |     | cycles          | 2X10 <sup>5</sup> |

#### UL technical data

Motor power for direct-on-line control

for three-phase motor

|      |    |     |
|------|----|-----|
| 120V | HP | 30  |
| 240V | HP | 50  |
| 480V | HP | 100 |
| 600V | HP | 75  |

for single-phase motor

|      |    |    |
|------|----|----|
| 120V | HP | 15 |
| 240V | HP | 30 |

#### Ambient conditions

Temperature

Operating temperature

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

Storage temperature

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

#### Resistance & Protection

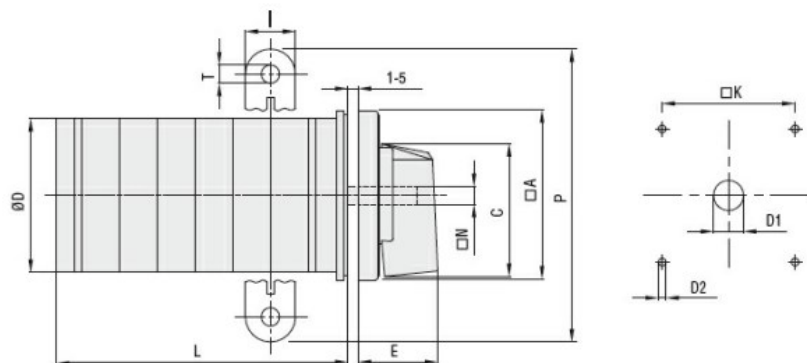
Frontal IP degree

IP40

Terminals IP degree

IP00

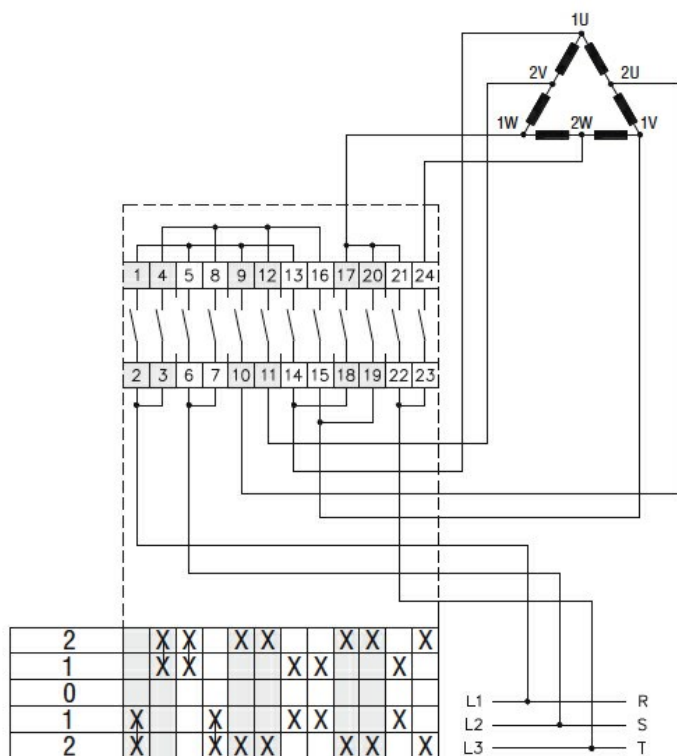
#### Dimensions



| Series | Dimensions |     |     |     |     |    |    |     |    |     |      | L Number of elements ① |     |     |     |     |     |     |     |     |     |     |     |
|--------|------------|-----|-----|-----|-----|----|----|-----|----|-----|------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|        | ØA         | C   | ØD  | ØD1 | ØD2 | E  | I  | ØK  | ØN | P   | ØT   | 1                      | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   | 10  | 11  | 12  |
| GN200  | 132        | 104 | 120 | 16  | 5.3 | 56 | 20 | 104 | 10 | 140 | 10.5 | 77                     | 107 | 136 | 166 | 196 | 226 | 284 | 314 | 343 | 373 | 402 | 432 |
| GN315  | 132        | 104 | 120 | 16  | 5.3 | 56 | 20 | 104 | 10 | 145 | 10.5 | 77                     | 107 | 136 | 166 | 196 | 226 | 284 | 314 | 343 | 373 | 402 | 432 |

① For devices with 6 or more elements please consult Technical support, see contact details on inside front cover.

#### Wiring diagrams



## Certifications and compliance

### Compliance

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

UL60947-4-1

### Certificates

UR

## ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete