

### 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

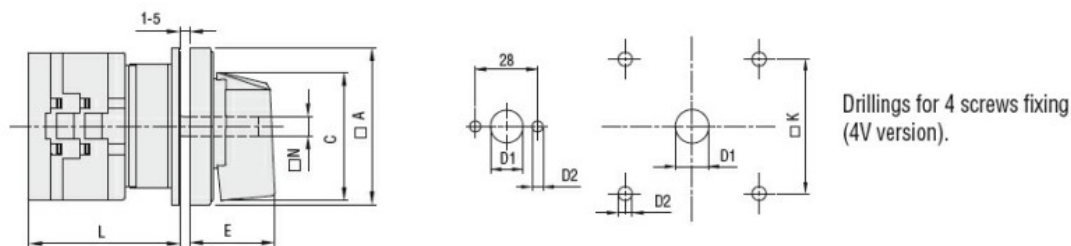
|                                                           |                    |          |           |
|-----------------------------------------------------------|--------------------|----------|-----------|
| Rated insulation voltage $U_i$                            | IEC/EN             | V        | 690       |
|                                                           | UL/CSA             | V        | 600       |
| Rated impulse withstand voltage $U_{imp}$                 |                    | kV       | 6         |
| Conventional free air thermal current $I_{th}$            | IEC/EN             | A        | 32        |
|                                                           | UL/CSA             | A        | 32        |
| Rated operational voltage                                 |                    | V        | 440       |
| Rated operational impulse voltage                         |                    | kV       | 4         |
| Maximum fuse size for short-circuit protection $I_n$ (gG) | 10kA               | A        | 35        |
|                                                           | 15kA               | A        | 35        |
|                                                           | 25kA               | A        | 35        |
|                                                           |                    |          |           |
| Rated short time current $I_{cw}$                         | 1s                 | kA       | 1000      |
|                                                           |                    |          |           |
| Conductivity                                              |                    |          | 10/5 mA/V |
| Operational current $I_e$ IEC/EN                          | AC1/AC21A          |          |           |
|                                                           |                    | A        | 32        |
|                                                           | AC15               | 110V     | A 25      |
|                                                           |                    | 220/230V | A 20      |
|                                                           |                    | 380/400V | A 10      |
|                                                           |                    | 660/690V | A 2       |
|                                                           |                    |          |           |
|                                                           | Three-phase AC-3   | 220/230V | kW 7.5    |
|                                                           |                    | 380/440V | kW 11     |
|                                                           |                    | 500/690V | kW 11     |
|                                                           |                    |          |           |
|                                                           | Single-phase AC-3  | 110V     | kW 1.8    |
|                                                           |                    | 220/230V | kW 3.5    |
|                                                           |                    | 380/440V | kW 5.5    |
|                                                           | Three-phase AC23A  | 220/230V | kW 8      |
|                                                           |                    | 380/440V | kW 15     |
|                                                           |                    | 500/690V | kW 15     |
|                                                           | Single-phase AC23A | 110V     | kW 2.2    |
|                                                           |                    | 220/230V | kW 3.5    |
|                                                           |                    | 380/440V | kW 6      |
| Rated operational current in DC                           | DC21A              |          |           |
|                                                           |                    | 48V      | A 32      |

|                                        |  |      |                 |                   |
|----------------------------------------|--|------|-----------------|-------------------|
|                                        |  | 60V  | A               | 32                |
|                                        |  | 110V | A               | 5                 |
|                                        |  | 220V | A               | 0.8               |
|                                        |  | 440V | A               | 0.25              |
| DC23A (poles in series)                |  |      |                 |                   |
|                                        |  | 24V  | A               | 32 (1)            |
|                                        |  | 48V  | A               | 32 (2)            |
|                                        |  | 60V  | A               | 32 (3)            |
|                                        |  | 110V | A               | 15 (3)            |
|                                        |  | 220V | A               | 12 (4)            |
| DC13                                   |  |      |                 |                   |
|                                        |  | 24V  | A               | 32                |
|                                        |  | 48V  | A               | 25                |
|                                        |  | 60V  | A               | 14                |
|                                        |  | 110V | A               | 3                 |
|                                        |  | 220V | A               | 0.5               |
|                                        |  | 440V | A               | 0.15              |
| Power dissipation                      |  |      | W               | 1.6               |
| Mechanical features                    |  |      |                 |                   |
| Terminals screw                        |  |      |                 | M4                |
| Tightening torque for terminals max    |  |      | Nm              | 1.2               |
| Conductor size                         |  |      |                 |                   |
| AWG - Rigid cable                      |  |      |                 |                   |
|                                        |  | min  | AWG             | 16                |
|                                        |  | Max  | AWG             | 8                 |
| AWG - Flexible cable                   |  |      |                 |                   |
|                                        |  | min  | AWG             | 16                |
|                                        |  | Max  | AWG             | 10                |
| Conductor size (IEC) - Flexible cable  |  |      |                 |                   |
|                                        |  | min  | mm <sup>2</sup> | 1.5               |
|                                        |  | Max  | mm <sup>2</sup> | 6                 |
| Conductor size (IEC) - Rigid cable     |  |      |                 |                   |
|                                        |  | min  | mm <sup>2</sup> | 1.5               |
|                                        |  | Max  | mm <sup>2</sup> | 10                |
| Mechanical life                        |  |      | cycles          | 1X10 <sup>6</sup> |
| UL technical data                      |  |      |                 |                   |
| Motor power for direct-on-line control |  |      |                 |                   |
| for three-phase motor                  |  |      |                 |                   |
|                                        |  | 120V | HP              | 3                 |
|                                        |  | 240V | HP              | 7.5               |
|                                        |  | 480V | HP              | 15                |
|                                        |  | 600V | HP              | 15                |
| for single-phase motor                 |  |      |                 |                   |
|                                        |  | 120V | HP              | 1.5               |
|                                        |  | 240V | HP              | 3                 |
| Ambient conditions                     |  |      |                 |                   |
| Temperature                            |  |      |                 |                   |
| Operating temperature                  |  |      |                 |                   |
|                                        |  | min  | °C              | -25               |
|                                        |  | max  | °C              | +55               |
| Storage temperature                    |  |      |                 |                   |
|                                        |  | min  | °C              | -40               |
|                                        |  | max  | °C              | +70               |
| Resistance & Protection                |  |      |                 |                   |

Frontal IP degree IP65

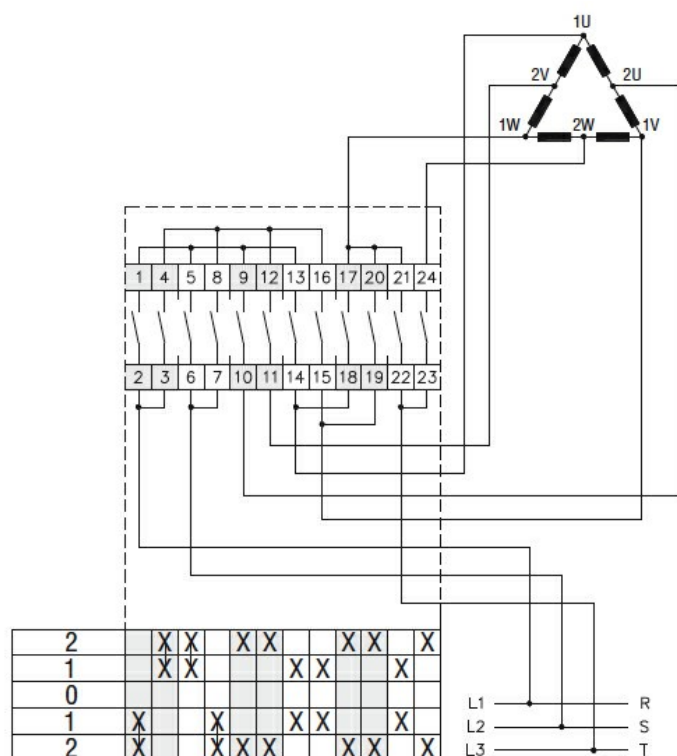
Terminals IP degree IP20

## Dimensions



| Series | Dimensions |      |     |     |      |    |    | L Number of elements |      |    |      |    |      |     |       |     |       |     |       |
|--------|------------|------|-----|-----|------|----|----|----------------------|------|----|------|----|------|-----|-------|-----|-------|-----|-------|
|        | □A         | C    | ØD1 | ØD2 | E    | □K | □N | 1                    | 2    | 3  | 4    | 5  | 6    | 7   | 8     | 9   | 10    | 11  | 12    |
| GX16   | 48         | 39.5 | 12  | 5   | 26.5 | 36 | 6  | 43                   | 51.5 | 60 | 68.5 | 77 | 85.5 | 94  | 102.5 | 111 | 119.5 | 128 | 136.5 |
| GX20   | 48         | 39.5 | 12  | 5   | 26.5 | 36 | 6  | 43                   | 51.5 | 60 | 68.5 | 77 | 85.5 | 94  | 102.5 | 111 | 119.5 | 128 | 136.5 |
| GX32   | 65         | 53   | 14  | 5   | 34.5 | 48 | 7  | 51                   | 63   | 75 | 85   | 99 | 111  | 123 | 135   | 147 | 159   | 171 | 183   |
| GX40   | 65         | 53   | 14  | 5   | 34.5 | 48 | 7  | 51                   | 63   | 75 | 85   | 99 | 111  | 123 | 135   | 147 | 159   | 171 | 183   |

## Wiring diagrams



## Certifications and compliance

### Compliance

CSA C22.2 n° 14

IEC/EN/BS 60947-1

IEC/EN/BS 60947-3

IEC/EN/BS 60947-5-1

IEC/EN/BS 61058-1

UL60947-4-1

### Certificates

cULus

EAC

ETIM classification

ETIM 8.0

EC001029 -  
Selector switch,  
complete