

|                                                        |  |  |                                     |      |          |
|--------------------------------------------------------|--|--|-------------------------------------|------|----------|
| Product designation                                    |  |  | Rotary cam switches                 |      |          |
| Product type designation                               |  |  | GN315                               |      |          |
| General characteristics                                |  |  |                                     |      |          |
| Switching diagram                                      |  |  | 94 - Multi-step 1-2-3-4 3 poles     |      |          |
| N° of elements                                         |  |  | 6                                   |      |          |
| Mounting form                                          |  |  | O - Rear 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                          |  |  |                                     |      |          |
| AC1/AC21A                                              |  |  | A                                   | 315  |          |
| Rated operational power in AC                          |  |  |                                     |      |          |
| 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                        |  |  |                                     |      |          |
| 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<br>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

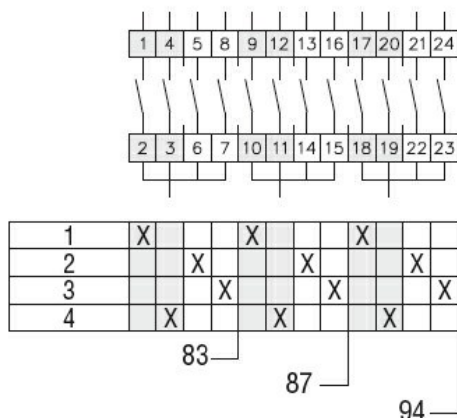
|             |                       |     |    |     |
|-------------|-----------------------|-----|----|-----|
| Temperature | Operating temperature | min | °C | -25 |
|             |                       | max | °C | +55 |
|             | Storage temperature   | min | °C | -40 |
|             |                       | max | °C | +70 |

#### Resistance & Protection

|                     |      |
|---------------------|------|
| Frontal IP degree   | IP40 |
| Terminals IP degree | IP00 |

#### Dimensions

#### 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 -<br>Selector switch,<br>complete |
|----------|--------------------------------------------|