



## Main

|                               |                  |
|-------------------------------|------------------|
| Range of product              | L100/300         |
| Series name                   | Severe duty mill |
| Product or component type     | Limit switch     |
| Product specific application  | Mill switch      |
| Device short name             | L300[RETURN]L100 |
| Body type                     | Fixed            |
| Head type                     | Rotary head      |
| Sale per indivisible quantity | 1                |

## Complementary

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Base plate style                             | Style 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Body material                                | Cast aluminium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Fixing mode                                  | By the body                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Type of operator                             | spring return without operating lever                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Contact sequence number                      | 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Function available                           | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Switch actuation                             | CW<br>From left                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Type of approach                             | Lateral approach                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Electrical connection                        | Screw-clamp terminals AWG 22...AWG 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Cable entry                                  | 1 entry for 3/4" - 14 NPT conforming to ANSI B1.20.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Number of poles                              | 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| CW operation contacts                        | 1 NC + 2 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| CCW operation contacts                       | 2 NC + 1 NO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Contacts style                               | A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Switch function                              | TPDT-DB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Contact form                                 | Form XYY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Contacts material                            | 90/10 AgCdO on copper backing stationary contact<br>Silver on steel backing moveable contact                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Contacts usage                               | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Contact operation                            | Snap action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Positive opening                             | Without                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Minimum torque for tripping                  | 190 ozf.in                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Maximum actuation speed                      | 90 Ft/Min with 45° cam angle, levers only<br>130 ft/min with 30° cam angle, levers only                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Tripping angle                               | 17 °                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Maximum displacement angle                   | 80 °                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Repeat accuracy                              | +/- 0.03 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Contact code designation                     | A600, AC (Ue = 600 V) Ie = 5 A conforming to NEMA rating designation<br>A600, AC (Ue = 480 V) Ie = 6.25 A conforming to NEMA rating designation<br>A600, AC (Ue = 240 V) Ie = 12.5 A conforming to NEMA rating designation<br>A600, AC (Ue = 120 V) Ie = 20 A conforming to NEMA rating designation<br>P600, DC (Ue = 600 V) Ie = 0.2 A conforming to NEMA rating designation<br>P600, DC (Ue = 250 V) Ie = 1 A conforming to NEMA rating designation<br>P600, DC (Ue = 120 V) Ie = 5 A conforming to NEMA rating designation |
| [Ithe] conventional enclosed thermal current | 20 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products of the company. This information is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither TWSS Holding nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                                        |                                                                                                                                                                     |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| [Ui] rated insulation voltage          | 600 V (pollution degree 3) conforming to IEC 60947-1<br>600 V (pollution degree 3) conforming to UL 508<br>600 V (pollution degree 3) conforming to CSA C22.2 No 14 |
| [Uimp] rated impulse withstand voltage | 2.5 kV AC for 1 minute conforming to CE<br>2.2 kV AC for 1 minute conforming to UL<br>2.64 kV AC for 1 minute conforming to CSA                                     |
| Short-circuit protection               | 20 A Bussmann class CC KTK-R-20 non-time delay                                                                                                                      |
| Width                                  | 57.15 mm                                                                                                                                                            |
| Height                                 | 125.73 mm                                                                                                                                                           |
| Depth                                  | 86.61 mm                                                                                                                                                            |
| Net weight                             | 0.7 kg                                                                                                                                                              |
| Terminals description ISO n°1          | (1-2) left side contact<br>(5-6) center contact<br>(3-4) right side contact                                                                                         |

## Environment

|                                       |                                                                                                                                                                                              |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Shock resistance                      | 30 gn for 9 ms conforming to IEC 60068-2-27                                                                                                                                                  |
| Vibration resistance                  | 10 gn (f= 10...55 Hz) conforming to IEC 60068-2-6                                                                                                                                            |
| NEMA degree of protection             | NEMA 1 conforming to Nema type 250<br>NEMA 2 conforming to Nema type 250<br>NEMA 4 conforming to Nema type 250<br>NEMA 12 conforming to Nema type 250<br>NEMA 13 conforming to Nema type 250 |
| IP degree of protection               | IP67 conforming to IEC 60529                                                                                                                                                                 |
| Electrical shock protection class     | Class 0 conforming to IEC 61140                                                                                                                                                              |
| Ambient air temperature for operation | -10...185 °F                                                                                                                                                                                 |
| Ambient air temperature for storage   | -10...185 °F                                                                                                                                                                                 |
| Protective treatment                  | Corrosion resistant gray paint                                                                                                                                                               |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 32.258 cm |
| Package 1 Width              | 12.7 cm   |
| Package 1 Length             | 81.935 cm |
| Package 1 Weight             | 680.389 g |

## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Disclosure                   |  <a href="#">Product Environmental Profile</a>                                                                                                                                                                                                                                                 |
| Circularity Profile                        | No need of specific recycling operations                                                                                                                                                                                                                                                                                                                                          |
| California proposition 65                  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|