

File E344137
Project 4789059368

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REPORT

on

COMPONENT - Furnishings, Household and Commercial

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DESCRIPTION

PRODUCT COVERED:

USR, CNR– Motorized Furnishing, Actuator, Models JLDQ -19.

GENERAL:

The product complies with the applicable requirements in Sec. Gen. and with the following description.

USR indicates the products have been investigated for compliance using the applicable requirements from the Standard for Household and Commercial Furnishings, UL 962.

CNR indicates the products have been investigated for compliance using the applicable requirements from the standard Motor -operated appliances (household and commercial), CSA C22.2 No. 68 -18.

ELECTRICAL RATING:

*Model	Electrical Rating	Duty Cycle	Push/Pull Load (N)
JLDQ-19	24 - 29 V dc, Maximum 100W	1 minute ON/ 8 minutes OFF 6000	

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Conditions of Acceptability - When installed in the end product, consideration shall be given to the following:

1. These actuators have been evaluated for stationary use in household/commercial applications.
2. These components shall be installed in compliance with the enclosure and mounting requirements of the ultimate application. No tests have been conducted on the mounting means provided. The suitability and need for additional testing should be determined in the end -use application.
3. The acceptability of this product operating under any load has not been conducted. The need for additional testing should be determined in the end -use application.
4. Suggestion for end -use application, the testing could be conducted with a Duty Cycle of 10%, 1 minutes of continuous operation / 8 minutes non - operation.
5. The evaluation of pinch points or the need for pinch points to be guarded shall be determined in the end product investigation.
6. Running Overload Tests along with any additional protection shall be considered in the end -use application.

*7. Below tests were conducted in the report.

CONDITIONING OF POLYMERIC COMPONENTS	30 degree C
STRAIN RELIEF TEST	Internal Conductors And Connectors
Input Test	
Motor/Actuator Locked Rotor Test,	Protected by winding impedance.
Dielectric Following Locked Rotor	

8. These devices are suitable for use in Class 2/LPS circuit.

CONSTRUCTION DETAILS:

General – For details of construction, refer to the following photographs and accompanying descriptive pages. All dimensions are nominal unless otherwise specified as “max” or “min”.

Spacings – Since these actuators are intended to be used in a circuit powered by a double insulated controller with an isolated low voltage secondary, there are no spacings specified.

Markings – See Section General, Markings

Duty Cycle – 1 minute of continuous operation / 8 minutes non-operation .

Model JLDQ-19 – Fig. 1

General – Fig. 1 show the overall view. Also see Ill. 1 for explosive illustration.

1. DC Motor – R/C(PRGY2/8, E490235), Jiangkou Electric Appliance Mfg Co Ltd, model JK4128 -024-****, rated 24 -29 Vdc, matched to 2.3 -5.5A in respectively, operate d duty: on 1 minute, off 8 minutes.
- 1a. DC Motor – alternate, R/C(PRGY2/8, E348290), SHANGHAI PUQING INSTRUMENT MOTOR FACTORY, model DJ60, rated 2429 Vdc, matched to 3-2A in respectively, operated duty: on 1 minute, off 8 minutes.
- 1b. DC Motor – alternate, R/C(PRGY2/8, E253985), OKIN REFINED ELECTRIC TECHNOLOGY CO LTD, model OKIN412860, rated 24-29 Vdc, matched to 3.5 - 2.2A in respectively, operated duty: on 1 minute, off 8 minutes.
- 1c. **DC Motor – unlisted (IYQX3/9, E344137, Vol. 3, Sec. 3), Jiangkou Electric Appliance Mfg Co Ltd, model JK4135 -029-EAB0, rated 24-29 Vdc, matched to 3.9 -3.0A in respectively, operated duty: on 1 minute, off 8 minutes .**
2. Gear Box – Two pieces screwed together. R/C (QMFZ2/8, E171666), manufactured by KINGFA SCI & TECH CO LTD. Cat. No. PA66-R10G(d1) (##), PA66-RG(d1)1(fff), rated V-0, Min. 3.2mm thick, 65 degree C. See ILL. 2 for detailed dimensions.
- 2a. Gear Box, alternate – Two pieces screwed together. R/C (QMFZ2/8, E507709), manufactured by OKIN REFINED ELECTRIC TECHNOLOGY CO LTD. Cat. No. A212G30-F, rated V-0, Min. 3.2mm thick, 65 degree C. See ILL. 2 for detailed dimensions.
- 2b. Gear Box, alternate – Two pieces screwed together. R/C (QMFZ2/8, E507709), manufactured by SHANGHAI SUREDO COMPOSITE MATERIALS CO LTD. Cat. No. A255-X, rated V-0, Min. 3.2mm thick, 65 degree C. See ILL. 2 for detailed dimensions.
3. Bearing – metal . Secured to slot provided in Gear Box and Worm Gear.
4. Worm Gear – R/C (QMFZ2/8, E41938), manufactured by E I DUPONT DE NEMOURS & CO INC, Cat. No. 500P or 100P, minimum 1.5 thicknesses, 85 degree C. rated HB, located inside Gear Box. Shape as shown, see ILL. 3 for detailed dimensions.
5. Spindle Guide - R/C (QMFZ2/8), Snapped in the spindle. Minimum 2 mm, rated min. HB, 50 Degree C. See ILL.4 for detailed dimensions.
6. Spindle Nut – R/C (QMFZ2/8), Rated minimum HB, 50 Degree C. Snapped in the spindle. See ILL.5 for detailed dimensions.
7. Spindle – Threaded steel, for details refer to Ill. 6.

8. Housing Tube – Consists of inner Tube and outer tube. Formed of aluminum or iron, for details refer to Ill. 7.
9. Limit Switches - R/C (WOYR2/8, E212027), 2 provided, manufactured by [REDACTED], model KW12-5, rated 5 A, 30 V dc, 10k cycle.
- 9a. Limit Switches, alternate - R/C (WOYR2/8, E227984), 2 provided, manufactured by [REDACTED], model FSK-18 series, rated 6 A, 36 V dc, 50k cycle.
- 9b. Limit Switches, alternate - R/C (WOYR2/8, E227984), 2 provided, manufactured by [REDACTED], model DK4 series, rated 10 A, 36 V dc, 10k cycle.
10. Internal Wire – R/C (AVLV2/8), CN, located in Class 2 circuit, rated minimum 22 AWG, 300 V, 80 degree C.
11. Printed Wiring Board – R /C (ZPMV2/8), Optional, minimum rated HB, located in Class 2 circuit.
12. Connector – Metal/Plastic. Polarized, housed in bodies of (QMFZ2/8) plastic, min HB, 50°C.
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13. Strain Relief, alternate R/C (QMFZ2/8, E168276), manufactured by [REDACTED] /No. TIF (f1), Rated V-0, min 1.5mm thickness, 50 degree C. Secured to Gear Box by snap. See ILL. 8 or ILL.9 for detail dimensions.
- 13a. Strain Relief, alternate R/C (QMFZ2/8, E174939), manufactured by [REDACTED] /No. Flex 600, Rated V-0, min 3.3mm thickness, 50 degree C. Secured to Gear Box by snap. See ILL. 8 or ILL.9 for detail dimensions.