File E103299
Project 93RT3457

November 4, 1993
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REPORT

ON

COMPONENT - SWITCHES, INDUSTRIAL CONTROL

COMUS INTERNATIONAL BVBA
3700 TONGEREN BELGIUM

DESCRIPTION:

PRODUCT COVERED:

USR, CNR – Component, Switches, Industrial Control, Magnetic Reed Switches, Model Nos * 15, 16, 19, 23, 27, 33, 37 or 38, followed by a six-digit suffix number or model 1523, followed by a four-digit suffix number.

GENERAL:

These devices are open type, magnetically operated single-pole, single-throw, and single-pole, double-throw reed switches, with normally open contacts.

ELECTRICAL RATINGS:

| Model No. | Electrical Ratings |
|---|---|
| * 15XX.XX-XX | 42 Vac, 0.7 A, resistive<br>120 V ac, 0.4 A, GP (100,000 cycles)<br>240 V ac, 0.2 A, GP (100,000 cycles) |
| * 16XX.XX-XX | 42 Vac, 0.7 A, resistive |
| * 19XX.XX-XX | 42 Vac, 0.7 A, resistive |
| * 23XX.XX-XX | 24 Vac, 0.4 A, resistive |
| * 27XX.XX-XX | 24 Vac, 0.4 A, resistive |
| * 33XX.XX-XX | 12 Vac, 0.2 A, resistive |
| * 37XX.XX-XX | 42 Vac, 0.7 A, resistive |
| * 38XX.XX-XX | 42 Vac, 0.7 A, resistive |
| * 1523.XX-XX | 120 VA Max. (resistive)<br>240 Vac, 0.5 A<br>40 Vac, 3.0 A<br>24 Vac, 5.0 A<br>60 Vdc, 2.0 A |

NOMENCLATURE:

| 1523 | 40-80 |
|---|---|
| I | II |

| | | | |
|---|---|---|---|
| I. | Switch Type: | 15XX | 120 V ac, 0.4 A / 240 V ac, 0.2 A, GP or 42 Vac, 0.7 A, resistive |
| | | 16XX | 42 Vac, 0.7 A, resistive |
| | | 19XX | 42 Vac, 0.7 A, resistive |
| | | 23XX | 24 Vac, 0.4 A, resistive |
| | | 27XX | 24 Vac, 0.4 A, resistive |
| | | 33XX | 12 Vac, 0.2 A, resistive |
| | | 37XX | 42 Vac, 0.7 A, resistive |
| | | 38XX | 42 Vac, 0.7 A, resistive |
| | | 1523 | 120 VA Max. (resistive)<br>240 Vac, 0.5 A<br>40 Vac, 3.0 A<br>24 Vac, 5.0 A<br>60 Vdc, 2.0 A |
| II. | Manufacturer's designation for minimum pull-in sensitivity in Ampere-turns, [AT] | | Any four-digit (only for model 1523) or six-digit suffix number between 0-9 (for all other models). |

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - For use only in complete equipment where the acceptability of the combination is determined by Underwriters Laboratories Inc.

CONDITIONS OF ACCEPTABILITY:

1. These devices should be used within the ratings specified above.

2. This device must be installed in an adequate enclosure having proper spacings, thickness and strength for the intended application.

3. No determination of the acceptability of the leads for wiring in an end-use application has been determined.

4. No determination of the strength of the glass envelope has been made. Each end-use application shall determine the adequacy of the glass envelope.

5. These devices are intended for factory installation only.

6. In the end-use application a dielectric withstand test should be performed.

ENGINEERING CONSIDERATIONS (NOT FOR UL REPRESENTATIVE'S USE):

CNR - Indicates investigation to Canadian National Standards C22.2 No. 14 - 95

USR - Indicates investigation to U.S. National Standard UL 508.

Note:

CNR = Canadian National Standards – Recognized.

USR = United States Standards – Recognized.

CONSTRUCTION DETAILS:

Spacings - These series are devices with no opposite polarity. Therefore, spacings are not specified.

Corrosion Protection - All metal parts subject to corrosion are suitably protected from corrosion by painting, plating, or the equivalent.

Tolerances - Unless specified otherwise all indicated dimensions are nominal.

MARKINGS:

Includes the Applicant's name, electrical ratings, and category number marked on box or smallest container.