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## RUS-L24(-S) Electric 24 Volt Control Damper & Louver Actuator

### DIRECT COUPLED SPRING RETURN

#### DESCRIPTION

Ruskin model RUS-L24(-S) electric On/Off spring return actuator designed for factory mounting on dampers and operable louvers. Actuators can be mounted directly to a damper or louver shaft from 3/4 to 1-1/16 inch (19 to 27 mm) diameter with a universal clamp. An optional line voltage auxiliary switch indicates an end-stop position or performs switching functions within the field selected 0° to 95° rotation range.

#### FEATURES

- Designed specifically to operate damper and operable louver applications up to the square footage face area listed below.
- Reversible mounting design simplifies installation and enables the actuator to be spring return in either direction.
- Electronic stall detection through entire rotation range extends life by deactivating the motor when an overload condition is detected.
- 5 Year factory warranty



RUS-L24(-S) Electric Spring-Return Actuator

#### TECHNICAL INFORMATION

|                                       |  |
|---------------------------------------|--|
| COMMERCIAL DAMPER FACE AREA*          | 35 sq. ft. with seals<br>70 sq. ft. without seals  |
| LOUVER FACE AREA                      | 50 sq. ft. with seals<br>75 sq. ft. without seals  |
| INDUSTRIAL DAMPERS                    | Dependent on model and system conditions (Consult Ruskin)  |
| RUNNING TIME                          | Drive: 24 to 57 sec<br>Spring: < 15 sec  |
| POWER SUPPLY                          | AC 24 V 50/60<br>DC 24 V   |
| POWER CONSUMPTION                     | AC: Running 26 VA, Holding 9.3 VA<br>DC: Running 17.6 W, Holding 2.8 W   |
| TRANSFORMER SIZE                      | 25 VA  |
| DIRECTION OF ROTATION                 | Reversible with cw/ccw mounting  |
| POSITION INDICATION                   | Visual indication 0° to 95°  |
| OPTIONAL AUXILIARY SWITCH (-S Models) | 2 ea - SPDT<br>50 VA @ 24 V<br>5.8 A @ 120 V, 1/4 hp, 275 VA Pilot Duty<br>5.0A @ 240 V, 1/4 hp, 275 VA Pilot Duty |
| ELECTRICAL PROTECTION                 | Double insulated   |
| ELECTRICAL CONNECTION                 | 3 ft, 18 ga appliance cable (-S models have 2 cables) 1/2" conduit connector                                       |
| OVERLOAD PROTECTION                   | Electronic throughout 0° to 95° rotation   |
| ROTATION PROTECTION                   | Max 95° adjust. with mechanical stop (optional)  |
| HOUSING                               | NEMA 2 (IP54) Aluminum   |
| HUMIDITY                              | 5 to 90% non-condensing  |

\*Consult Ruskin for proper actuator sizing on TED50 series dampers

#### TECHNICAL INFORMATION

|                                     |  |
|-------------------------------------|--|
| AMBIENT TEMPERATURE                 | -40° to 131°F (-40° to 55°C)   |
| STORAGE TEMPERATURE                 | -85° to 185°F (-65° to 85°C)   |
| AGENCY LISTINGS                     | UL 60730-1A: 2003-08<br>UL 60730-2-14: 2002-02<br>UL 2043<br>C22.2 No. 24-93 |
| NOISE LEVEL AT APPROX. 40" DISTANCE | Drive: <66 dba Holding: <18 dba<br>Spring: <66 dba                           |
| WEIGHT                              | RUS-L24: 6.4 lb (3.5 kg)<br>RUS-L24-S: 6.8 lb (3.6 kg)                       |
| SERVICING                           | Maintenance free   |
| QUALITY STANDARD                    | ISO 9001   |

#### ACCESSORY

|                         |   |
|-------------------------|---|
| ADJUSTABLE END STOP KIT | Part #M9220-603<br>From 35° to 95° in 5° increments   |
| SMALLER SHAFT COUPLER   | Part #M9220-601 1/2 to 3/4 in. or 12 to 19 mm Round Shafts, or 3/8 and 1/2 in. or 10, 12, and 19 mm Square Shafts                   |
| WEATHER SHIELDS         | Part #M9000-320 NEMA3R, IP32 OR<br>Part #M9000-340 NEMA 5, IP54<br>impact-grade plastic enclosure with UV inhibitors to extend life |

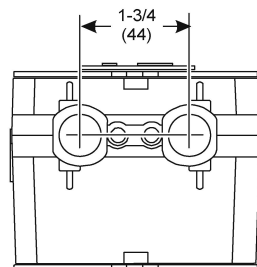
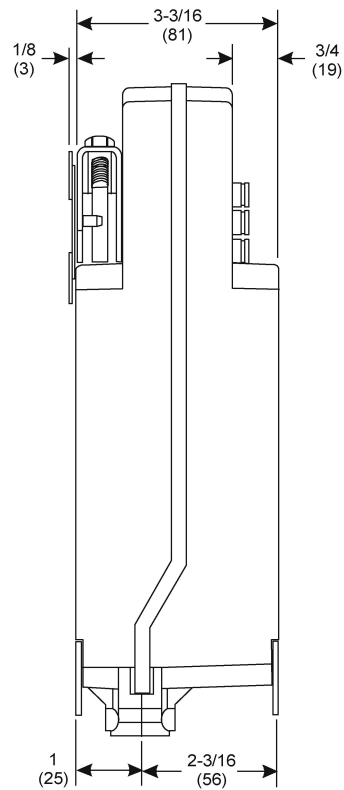


Diagram illustrating the connection of a 3-phase motor. The motor is shown with a terminal box on top. Three cables are connected to the terminal box: a red cable (L1), a blue cable (L2), and a green/yellow cable (PE). The motor is labeled with '3-phase motor' and '3-core cable'.

