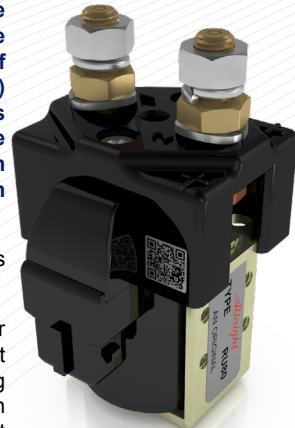


| Application  | Uninterrupted                               |
|--|---|
| Thermal Current Rating ( <sup>1</sup> th)  | 200A  |
| Intermittent Current Rating:   |   |
| 30% Duty   | 365A  |
| 40% Duty   | 315A  |
| 50% Duty   | 280A  |
| 60% Duty   | 260A  |
| 70% Duty   | 240A  |
| Rated Fault Current Breaking Capacity ( <sup>1</sup> cn) 5ms Time Constant: <i>(in accordance with UL583*)</i> |   |
| RU80   | 800A at 48V D.C.                            |
| RU80B  | 800A at 80V D.C.                            |
| Rated Fault Current Breaking Capacity ( <sup>1</sup> cn) Resistive Load: <i>(in accordance with UL508*)</i>    |   |
| RU80   | 300A at 60V D.C.                            |
| RU80B  | 300A at 96V D.C.                            |
| Maximum Recommended Contact Voltages (U <sub>c</sub> ):  |   |
| RU80   | 60V D.C.                                    |
| RU80B  | 96V D.C.                                    |
| Typical Voltage Drop per pole across New Contacts at 200A  | <40mV                                       |
| Mechanical Durability  | >3 x 10 <sup>6</sup> Cycles                 |
| Coil Voltage Available (U <sub>c</sub> ) <i>(Rectifier board required for A.C.)</i>                            | From 6 to 240V A.C./D.C.                    |
| Coil Power Dissipation:  |   |
| Highly Intermittent Rated Types  | 20 - 30 Watts                               |
| Intermittently Rated types   | 15 - 20 Watts                               |
| Prolonged Rated Types  | 13 - 15 Watts                               |
| Continuously Rated Types   | 7 - 13 Watts                                |
| Maximum Pull-In Voltage (Coil at 20° C) Guideline:   |   |
| Highly Intermittent Rated types (Max 25% Duty Cycle)   | 60% U <sub>s</sub>                          |
| Intermittently Rated types (Max 70% Duty Cycle)  | 60% U <sub>s</sub>                          |
| Prolonged Operation (Max 90% Duty Cycle)   | 60% U <sub>s</sub>                          |
| Continuously Rated Types (100% Duty Cycle)   | 66% U <sub>s</sub>                          |
| Drop-Out Voltage Range   | 10 - 25% U <sub>s</sub>                     |
| Typical Pull-In Time   | 20ms  |
| Typical Drop-Out Time (N/O Contacts to Open):  |   |
| Without Suppression  | 5ms   |
| With Diode Suppression   | 50ms  |
| With Diode and Resistor <i>(Subject to resistance value)</i>   | 8 - 20ms                                    |
| Typical Contact Bounce Period  | 3ms   |
| Operating Ambient Temperature  | - 40° C to + 60° C                          |
| Guideline Contactor Weight:  |   |
| RU80   | 350 gms                                     |
| With Auxiliary   | + 20 gms                                    |
| With Blowouts  | + 50 gms                                    |
| <b>Auxiliary Details</b>   |   |
| Auxiliary Thermal Current Rating   | 5A  |
| <b>Auxiliary Contact Switching Capacities (Resistive Load):</b>  |   |
| <b>RU80C</b>   | <b>RU80A</b>                                |
|  | 5A at 24V D.C.                              |
|  | 2A at 48V D.C.                              |
|  | 0.5A at 240V D.C.                           |
| <b>Advised Connection Sizes for Maximum Continuous Current</b>   |   |
| Copper busbar  | 129mm <sup>2</sup> [0.20inch <sup>2</sup> ] |
| Cable  | Rated suitable for Application              |
| <b>Key:</b> ▲ = Uninterrupted  |   |
| <b>Note:</b> Where applicable values shown are at 20° C  |   |
| * Please check our web site for product UL status  |   |

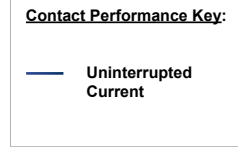
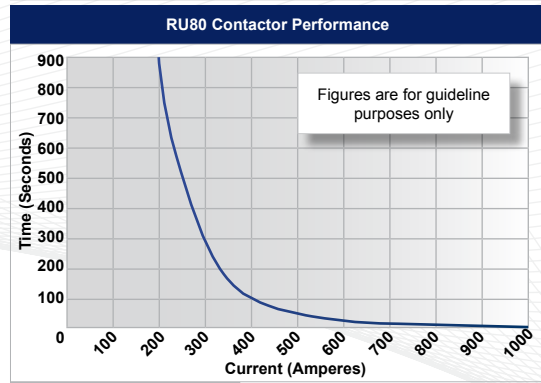
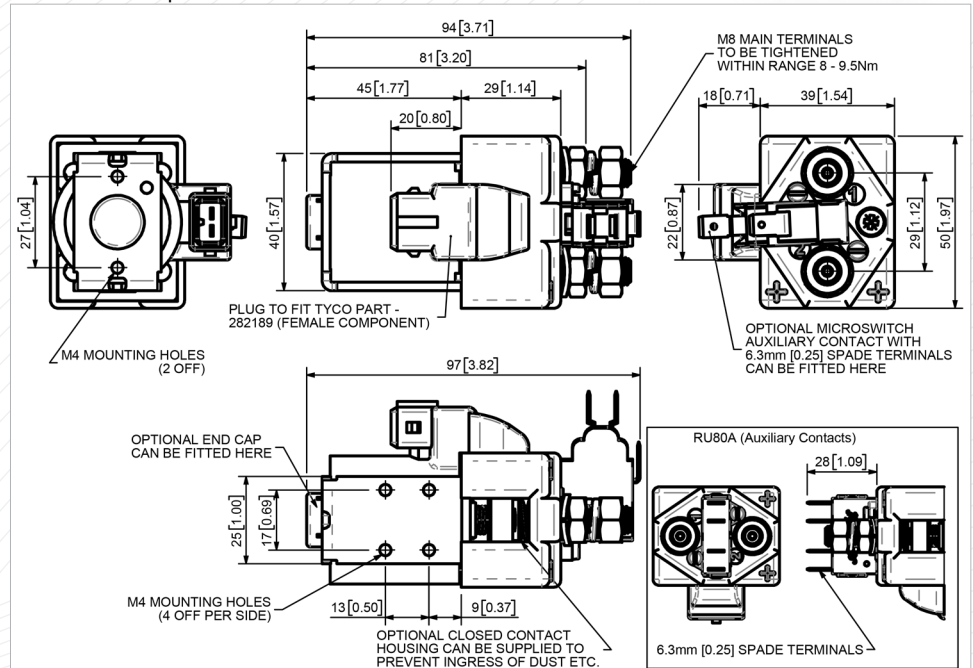
The Reduced Silver series are suitable for applications where infrequent switching is specified. In such applications the degradation of the tip is minimal and therefore a higher volume of silver is unnecessary. The RU80 with Junior Power Timer (JPT) Connector is an economical alternative to the SU80 in applications where switching requirements are Uninterrupted such as with line contactors or telecommunication and power distribution systems. In such applications, contact wear is minimal and the amount of silver in the tip can be selectively reduced.

- Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

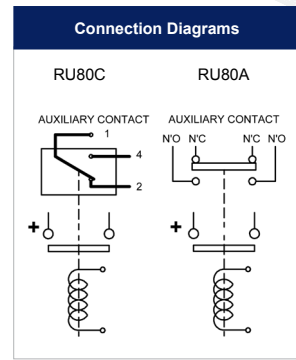
The RU80 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. Due to the low switching nature of the contactor, servicing requirements are minimal, however spares are available. Mounting can be vertical or horizontal, when vertical the M8 contact studs should point upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this.



RU80 with JPT Connector



| RU80 Available Options                              |   |        |
|---|---|--------|
| General   |   | Suffix |
| Auxiliary Contacts                                  | ○ | A      |
| Auxiliary Contacts - V3                             | ○ | C      |
| Magnetic Blowouts†                                  | ○ | B      |
| Magnetic Blowouts - High Powered†                   | ○ | B      |
| Armature Cap  | ○ |        |
| Mounting Brackets (see SU Series Catalogue)         | ○ |        |
| Magnetic Latching† (Not fail safe)                  | ○ | M      |
| Closed Contact Housing                              | ○ |        |
| Environmentally Protected IP66                      | X |        |
| EE Type (Steel Shroud)                              | ○ | EE     |
| Contacts  |   |        |
| Textured Tips                                       | ○ | T      |
| Silver Plating                                      | X |        |
| Coil  |   |        |
| AC Rectifier Board (Fitted)                         | ○ |        |
| Coil Suppression†                                   | ○ |        |
| Flying Leads  | X |        |
| Junior Power Timer Connector                        | ● |        |
| Manual Override Operation                           | ○ |        |
| M4 Stud Terminals                                   | X |        |
| M5 Terminal Board                                   | X |        |
| Vacuum Impregnation                                 | X |        |
| <b>Key:</b> ○ Optional ○ Standard ● Not Available X |   |        |
| † Connections become polarity sensitive             |   |        |



- Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.
- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: [technical@albrightinternational.com](mailto:technical@albrightinternational.com)
- Albright reserve the right to change data without prior notice