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 RW300 is designed for use in telecommunication and power distribution applications where an uninterrupted load is switched. These contactors are primarily for use with Direct Current loads but can also be used with Alternating Currents.

### RW300 Single Pole Single Throw Normally Open

(Part of the Reduced Silver Series)

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

The RW300 features double breaking main contacts with silver alloy tips which are weld resistant, hard wearing and have excellent conductivity. Silver plating on the main contacts is optional for the RW300. The RW300 is a compact contactor which can be busbar mounted vertically or horizontally, if mounted vertically the coil should be at the bottom. If the coil is required at the top, we can adjust the contactor to compensate for this.

---

**Application**

<table>
<thead>
<tr>
<th>Thermal Current Rating (at 60% Duty Cycle)</th>
<th>300A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermittent Duty Rating: 30% Duty</td>
<td>550A</td>
</tr>
<tr>
<td>40% Duty</td>
<td>475A</td>
</tr>
<tr>
<td>50% Duty</td>
<td>425A</td>
</tr>
<tr>
<td>60% Duty</td>
<td>390A</td>
</tr>
<tr>
<td>70% Duty</td>
<td>360A</td>
</tr>
</tbody>
</table>

**Rated Fault Current Breaking Capacity (in Resistor Load):**

- RW300: 450A at 60V D.C.

**Maximum Recommended Contact Voltages (U_R):**

- RW300: 60V D.C.

**Typical Voltage Drop per pole across New Contacts at 300A:**

- 50mV

**Mechanical Durability:**

- >1 x 10^9 Cycles

**Coil Voltage Available (V_C):**

- (Rectifier board required for A.C.)
  - 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: 60% U_R
- Intermittently Rated Types: 60% U_R
- Prolonged Operation: 60% U_R
- Continuously Rated Types: 66% U_R

**Drop-Out Voltage Range:**

- 10% - 30% U_R

**Typical Pull-In Time:**

- 15ms

**Typical Drop-Out Time (N/O Contacts to Open):**

- Without Suppression: 6ms
- With Diode Suppression: 35ms
- With Diode and Resistor (Subject to resistance value): 20ms

**Typical Contact Bounce Period:**

- < 5ms

**Operating Ambient Temperature:**

- -40°C to +60°C

**Guideline Contactor Weight:**

- RW300: 560 gms
- With Auxiliary: +20 gms

**Auxiliary Details**

- **Auxiliary Thermal Current Rating:** 5A
- **Auxiliary Contact Switching Capabilities (Resistive Load):**
  - RW300A: 5A at 24V D.C.
  - RW300C: 2A at 48V D.C.
  - 1.3A at 72V D.C.

**Advised Connection Sizes for Maximum Continuous Current**

- Copper busbar: 19kcm² (0.30inch²)
- Cable: Rated Suitable for Application

**Key:**

- Uninterrupted

*Please check our web site for product UI status

* Note: Where applicable values shown are at 20°C

---

**RW300A Available Options**

<table>
<thead>
<tr>
<th>General</th>
<th>Suffix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auxiliary Contacts</td>
<td>A</td>
</tr>
<tr>
<td>Auxiliary Contacts - V3</td>
<td>C</td>
</tr>
<tr>
<td>Magnetic Blowout†</td>
<td>X</td>
</tr>
<tr>
<td>Magnetic Blowout - High Powered†</td>
<td>X</td>
</tr>
<tr>
<td>Armature Cap</td>
<td>X</td>
</tr>
<tr>
<td>Mounting Brackets (see Busbar Series Catalogue)</td>
<td>○</td>
</tr>
<tr>
<td>Magnetic Latching (Not fail safe)</td>
<td>M</td>
</tr>
<tr>
<td>Closed Contact Housing</td>
<td>X</td>
</tr>
<tr>
<td>Environmentally Protected IP66</td>
<td>X</td>
</tr>
<tr>
<td>EE Type (Steel Shroud)</td>
<td>X</td>
</tr>
</tbody>
</table>

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**Contacts**

- **Textured Tips:** ○ T
- **Silver Plating:** ○

**Coil**

- **AC Rectifier Board (Fitted):** ○
- **Coil Suppression†:** ○
- **Flying Leads:** ○ F
- **Manual Override Operation:** ○
- **M4 Stud Terminals:** X
- **M5 Terminal Board:** ○
- **Vacuum Impregnation:** ○

**Key:**

- Optional ○ Standard ○ Not Available X

† Connections become polarity sensitive