RW80 Single Pole Single Throw Normally Open

(Part of the Reduced Silver Series)

Application	Uninterrupted
Thermal Current Rating (I^th)	125A
Intermittent Current Rating:	
30% Duty	230A
40% Duty	200A
50% Duty	175A
60% Duty	160A
70% Duty	150A
Rated Fault Current Breaking Capacity (I^tcn) 5ms Time Constant: *(in accordance with UL583*)*	
RW80	800A at 48V
RW80B	800A at 80V
Rated Fault Current Breaking Capacity (I^tcn) Resistive Load: *(in accordance with UL508*)*	
RW80	190A at 60V D.C.
RW80B	190A at 96V D.C.
Maximum Recommended Contact Voltages (U_e):	
RW80	60V D.C.
RW80B	96V D.C.
Typical Voltage Drop per pole across New Contacts at 125A	40mV
Mechanical M.T.B.F	>5 x 10^6
Coil Voltage Available (U_s) *(Rectifier board required for A.C.)*	From 6 to 240V 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_s
Intermittently Rated types (Max 70% Duty Cycle)	60% U_s
Prolonged Operation (Max 90% Duty Cycle)	60% U_s
Continuously Rated Types (100% Duty Cycle)	66% U_s
Drop-Out Voltage Range	10 - 25% U_s
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 *(Subject to resistance value)*	8 - 20ms
Typical Contact Bounce Period	3ms
Operating Ambient Temperature	- 40˚C to + 60˚C
Guideline Contactor Weight:	
RW80	350 gms
With Auxiliary	+ 20 gms
With Blowouts	+ 50 gms
Auxiliary Thermal Current Rating	5A

Auxiliary Contact Switching Capabilities (Resistive Load):	
RW80C	RW80A
5A at 24V D.C.	
2A at 48V D.C.	
0.5A at 240V D.C.	

Advised Connection Sizes for Maximum Continuous Current	
Copper busbar	80mm² [0.124inch²]
Cable	Rated suitable for Application

Key: ◢ = *Uninterrupted*

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

* *Please check our web site for product UL status*

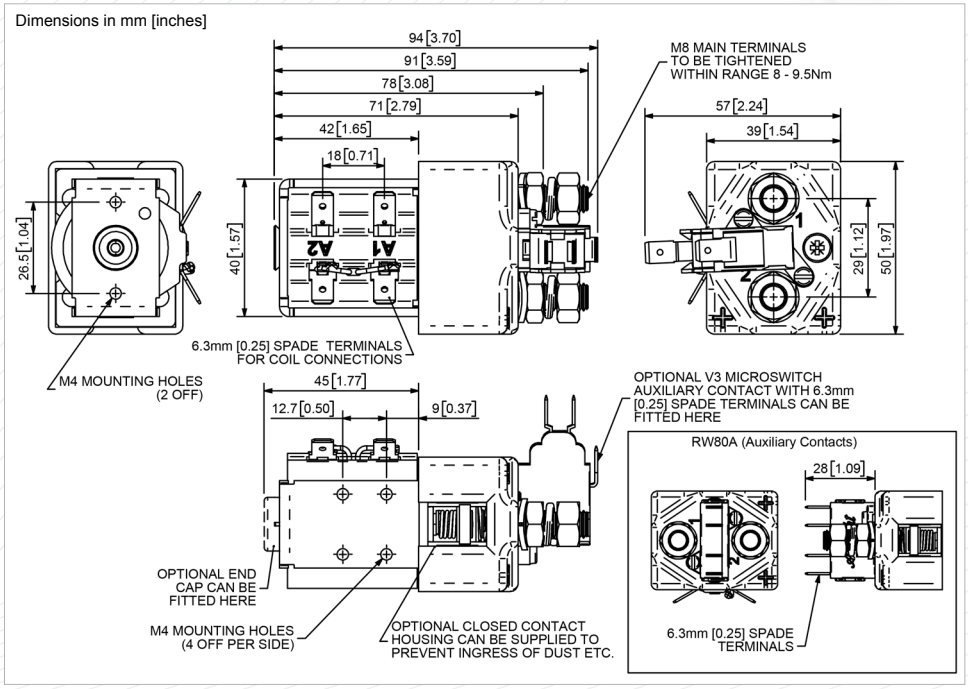
The Reduced Silver series are suitable for applications where infrequent switching is specified. In such applications the degradation of the tip is minimal and therefore a higher volume of silver is unnecessary. Developed for Uninterrupted current applications the RW80 is typically iused in line contactors and Power Distribution Systems.

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

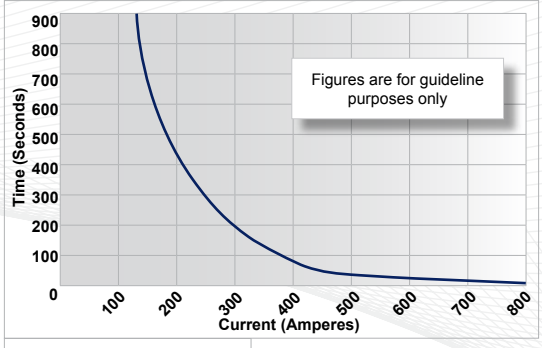
The RW80 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The RW80 has M8 stud main terminals and 6.3mm spade coil connections. Mounting is via M4 tapped holes or mounting brackets, either supplied fitted, or as separate items. Mounting can be horizontal or vertical, 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.

RW80

Dimensions in mm [inches]



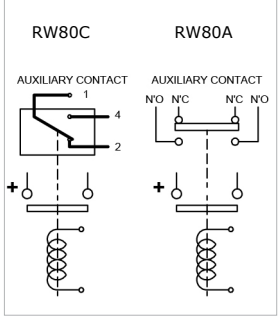
RW80 Contactor Performance



Contact Performance Key:

Uninterrupted Current

Connection Diagram



RW80 Available Options

General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V3	○	C
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	○	B
Armature Cap	○	
Mounting Brackets (See Stud Series Catalogue)	○	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing‡	○	
Environmentally Protected IP66 (see RU80P Catalogue sheet)	○	P
EE Type (Steel Shroud)	○	EE
Contacts		
Textured Tips	○	T
Silver Plating	X	
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*

‡ *Open Housing Available*

- **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**
- **Albright reserve the right to change data without prior notice**

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