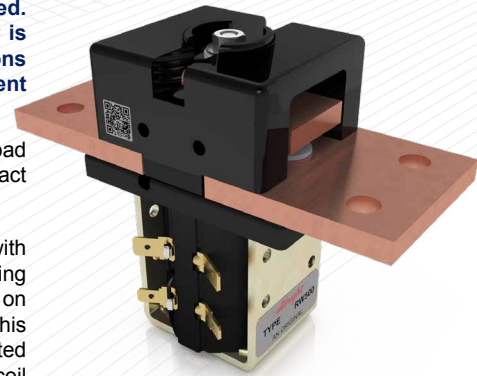


The Reduced Silver series are suitable for applications where infrequent switching is specified. In such applications the degradation of the tip is minimal and therefore a higher volume of silver is unnecessary. The RW500 is designed for use in telecommunication and power distribution applications where an uninterrupted load is switched. These contactors are primarily for use with Direct Current loads but can also be used with Alternating Currents.

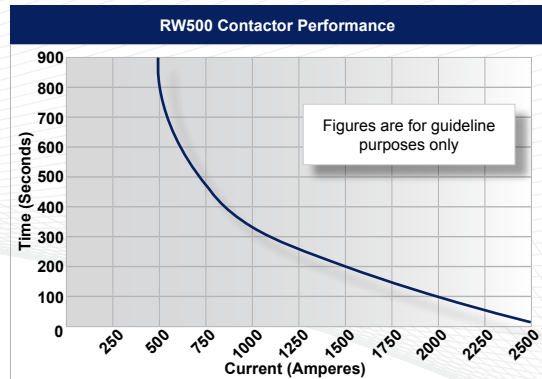
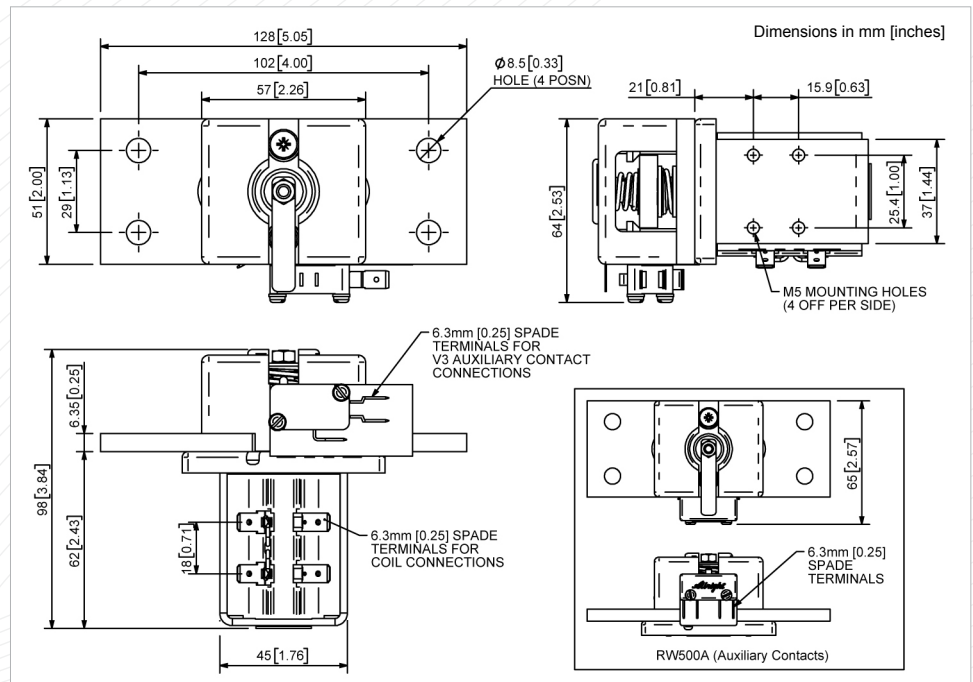
Application	Uninterrupted
Thermal Current Rating (I <sub>th</sub> )	500A
Intermittent Current Rating:	
30% Duty	915A
40% Duty	790A
50% Duty	705A
60% Duty	645A
70% Duty	600A
Rated Fault Current Breaking Capacity (I <sub>cn</sub> ) Resistive Load: (in accordance with UL508*)	
RW500	750A at 60V D.C.
Maximum Recommended Contact Voltages (U <sub>e</sub> ):	
RW500	60V D.C.
Typical Voltage Drop per pole across New Contacts at 500A	<50mV
Mechanical Durability	>1 x 10 <sup>6</sup> Cycles
Coil Voltage Available (U <sub>s</sub> ) (Rectifier board required for A.C.)	From 6 to 240V A.C./D.C.
Coil Power Dissipation:	
Highly Intermittent Rated Types	40 - 50 Watts
Intermittently Rated Types	30 - 40 Watts
Prolonged Rated Types	15 - 30 Watts
Continuously Rated Types	10 - 15 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 - 30% U <sub>s</sub>
Typical Pull-In Time	30ms
Typical Drop-Out Time (N/O Contacts to Open):	
Without Suppression	8ms
With Diode Suppression	60ms
With Diode and Resistor (Subject to resistance value)	25ms
Typical Contact Bounce Period	< 5ms
Operating Ambient Temperature	- 40°C to + 60°C
Guideline Contactor Weight:	
RW500	1030 gms
With Auxiliary	+ 20 gms
Auxiliary Details	
Auxiliary Thermal Current Rating	5A
Auxiliary Contact Switching Capabilities (Resistive Load):	
RW500C	RW500A
	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	322mm <sup>2</sup> [0.5inch <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	

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

The RW500 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 RW500. This compact contactor can be busbar mounted vertically or horizontally, but 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.



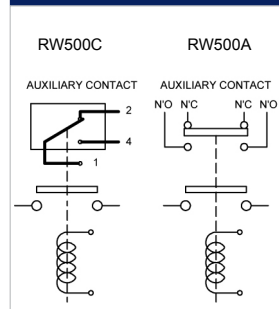
RW500



Contact Performance Key:

— Uninterrupted Current

Connection Diagram



RW500 Available Options

General	Suffix	
	Standard	Not Available
Auxiliary Contacts	○	A
Auxiliary Contacts - V3	○	C
Magnetic Blowouts†	X	
Magnetic Blowouts - High Powered†	X	
Armature Cap	X	
Mounting Brackets (see Busbar Series Catalogue)	○	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing	X	
Environmentally Protected IP66	X	
EE Type (Steel Shroud)	X	
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	○	
<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