RW500 Single Pole Single Throw Normally Open (Part of the Reduced Silver Series)

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.

riaht

Uninterrupted

500A

915A

790A

705A

645A

600A

750A at 60V D.C.

60V D.C.

<50mV

>1 x 10^e

From 6 to 240V A.C./D.C

40 - 50 Watts

30 - 40 Watts

15 - 30 Watts

10 - 15 Watts

60% Us

60% U_s

60% U_s

66% U_s

10 - 30% U_s

30ms

8ms

60ms

25ms

< 5ms

- 40°C to + 60°C

1030 gms

+ 20 gms

5A

RW500A

322mm² [0.5inch²]

Rated suitable for Application

International

Rated Fault Current Breaking Capacity ($^{\rm I}{\rm cn}$) Resistive Load: (in accordance with UL508*)

Maximum Recommended Contact Voltages (Ue):

Maximum Pull-In Voltage (Coil at 20° C) Guideline:

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

Auxiliary Details

5A at 24V D.C. 2A at 48V D.C

0.5A at 240V D.C

Advised Connection Sizes for Maximum Continuous Current

Note: Where applicable values shown are at 20°C

* Please check our web site for product UL status

Auxiliary Contact Switching Capabilities (Resistive Load):

Application

30% Duty

40% Duty

50% Duty

60% Duty

70% Duty

RW500

RW500

Thermal Current Rating (¹th)

Typical Voltage Drop per pole across New Contacts at 500A

Coil Voltage Available (U_S) (Rectifier board required for A.C.)

Highly Intermittent Rated Types

Mechanical M.T.B.F

Coil Power Dissipation:

Intermittently Rated Types

Continuously Rated Types

Highly Intermittent Rated types

Prolonged Rated Types

(Max 25% Duty Cycle)

(Max 70% Duty Cycle)

Prolonged Operation (Max 90% Duty Cycle)

Continuously Rated Types (100% Duty Cycle)

Drop-Out Voltage Range

Typical Pull-In Time

Without Suppression

With Diode Suppression

With Diode and Resistor (Subject to resistance value)

Typical Contact Bounce Period

Operating Ambient Temperature

Auxiliary Thermal Current Rating

RW500C

Guideline Contactor Weight:

RW500

With Auxiliary

Copper busbar Cable

Key: _ = Uninterrupted

Intermittently Rated types

Intermittent Current Rating

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 contactor can be busbar mounted compact 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.

128[5.05]

102 4.00

57[2.26]

(*

1••1

45[1.76]

Ĥ

51[2.00] 29[1.13]

6.35[0.25]

52 [2.43]

98 [3.84]

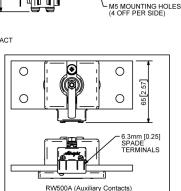
64 [2.53] Œ آلاماً Π 6.3mm [0.25] SPADE TERMINALS FOR V3 AUXILIARY CONTACT CONNECTIONS

6.3mm [0.25] SPADE TERMINALS FOR COIL CONNECTIONS

Ø8.5[0.33]

IOLE (4 POSN)

21[0.81]



RW500

÷

Dimensions in mm [inches]

15.9[0.63]

₹. 6

ilable Options

Key: Optional O Standard O Not Available X

[†] Connections become polarity sensitive

M5 Terminal Board

Vacuum Impregnation

0

37 [1.44]

Suffix

A

С

0

0

Х

Х

Х

0

0

Х

Х

Х

0

0

0

0

0

0

RW500 Contactor Performance		RW500 Available Opt
900		General
800 700 ई 600	Figures are for guideline purposes only	Auxiliary Contacts
		Auxiliary Contacts - V3
		Magnetic Blowouts [†]
5 500		Magnetic Blowouts - High Powered [†]
<u>د</u> 400		Armature Cap
9 600 5500 9 400 1 300		Mounting Brackets (see Busbar Series Catalogue)
200		Magnetic Latching [†] (Not fail safe)
100		Closed Contact Housing
0 25 50 75 100 15 15 10 15 20 15 20	1250 1500 1750 2000 2250 2500	Environmentally Protected IP66
Current (Amperes)		EE Type (Steel Shroud)
Contact Performance Key: — Uninterrupted Current		Contacts
	Connection Diagram	Textured Tips
	RW500C RW500A	Silver Plating
		Coil
		AC Rectifier Board (Fitted)
		Coil Suppression [†]
		Flying Leads
		Manual Override Operation
		M4 Stud Terminals
		NGT : 10 1

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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