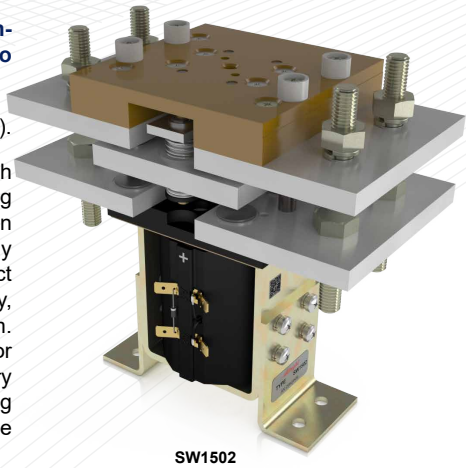
The SW1502 is designed for use in telecommunication and power distribution applications where an un-interrupted load is switched. These contactors are primarily for use with Direct Current loads but can also be used with Alternating Currents.

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



SW1502

The SW1502 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 standard for the SW1502 however, optionally it can be excluded from the specification. 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. Optional extras include auxiliary switches, brackets, coil finishes and magnetic latching which allows the contactor to remain closed while consuming no coil power.

Application	Uninterrupted
Thermal Current Rating (I^{th})	1800A
Intermittent Current Rating:	
30% Duty	3285A
40% Duty	2845A
50% Duty	2545A
60% Duty	2325A
70% Duty	2150A
Rated Fault Current Breaking Capacity (I^{cn}) Resistive Load: *(in accordance with UL508*)*	
SW1502	2700A at 60V D.C.
Maximum Recommended Contact Voltages (U_e):	
SW1502	60V D.C.
Typical Voltage Drop per pole across New Contacts at 1800A	50mV
Mechanical Durability	>1 x 10^6 Cycles
Coil Voltage Available (U_s) *(Rectifier board required for A.C.)*	From 6 to 240V A.C./D.C.
Coil Power Dissipation:	
Highly Intermittent Rated Types	60 - 90 Watts
Intermittently Rated Types	40 - 60 Watts
Prolonged Rated Types	35 - 40 Watts
Continuously Rated Types	25 - 35 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 - 30% U_s
Typical Pull-In Time	90ms
Typical Drop-Out Time (N/O Contacts to Open):	
Without Suppression	25ms
With Diode and Resistor *(Subject to resistance value)*	170ms
Typical Contact Bounce Period	< 5ms
Operating Ambient Temperature	- 40˚C to + 60˚C
Guideline Contactor Weight:	
SW1502	3950 gms
With Auxiliary	+ 20 gms

Auxiliary Details	
Auxiliary Thermal Current Rating	5A

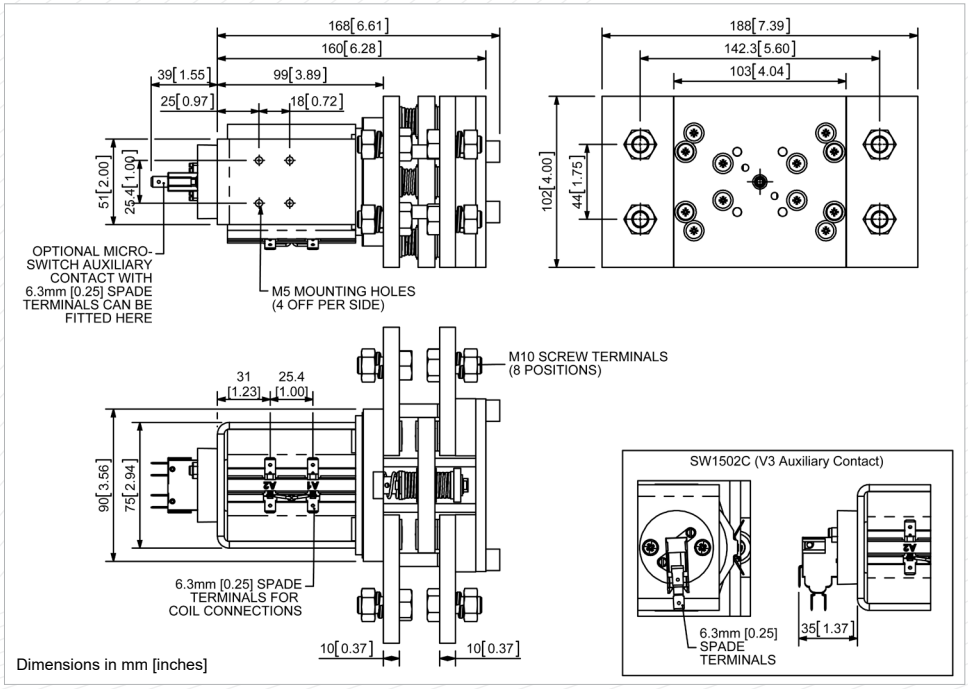
Auxiliary Contact Switching Capabilities (Resistive Load):	
SW1502A	SW1502C
5A at 24V D.C.	
2A at 48V D.C.	
0.5A at 240V D.C.	

Advised Connection Sizes for Maximum Continuous Current	
Copper busbar	965mm² [1.49inch²]
Cable	Rated suitable for Application

Key: ◢ = Uninterrupted

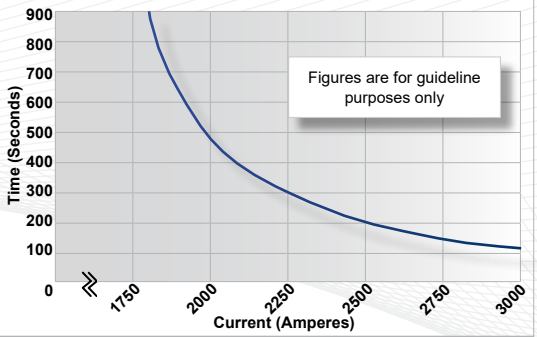
Note: *Where applicable values shown are at 20˚C*

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



Dimensions in mm [inches]

SW1502 Contactor Performance



Contact Performance Key: —— **Uninterrupted Current**

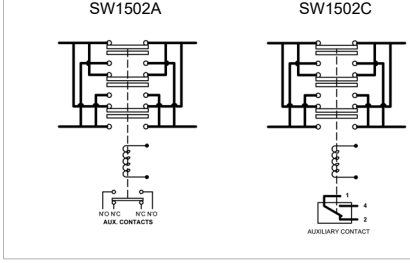
SW1502 Available Options

General		
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		
Large Tips	X	
Textured Tips	X	
Silver Plating *(fitted as standard)*	○	
Coil		
AC Rectifier Board (Fitted)	○	
Coil Suppression†	○	
Flying Leads	○	F
Manual Override Operation	○	
M4 Stud Terminals	X	
M5 Terminal Board	X	
Vacuum Impregnation	○	

Key: Optional ○ Standard ● Not Available X

† *Connections become polarity sensitive*

Connection Diagram



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

Albright International Ltd, Evingar Trading Estate, Ardglen Road, Whitchurch, Hampshire, RG28 7BB, UK
Tel: +44 (0)1256 893060, Fax: +44 (0)1256 893562, Dedicated Sales Tel: +44 (0)1256 890030, Fax: +44 (0)1256 890043
E-mail: sales@albrightinternational.com or technical@albrightinternational.com Web Site: www.albrightinternational.com