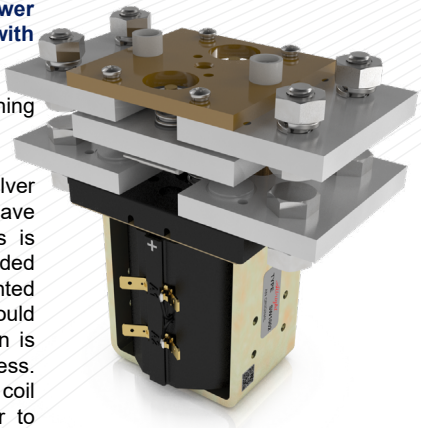
The SW1002 is a single pole double throw contactor designed for use in telecommunication and power distribution applications where an uninterrupted load is switched. These contactors are primarily for use with Direct Current loads but can also be used with Alternating Currents.

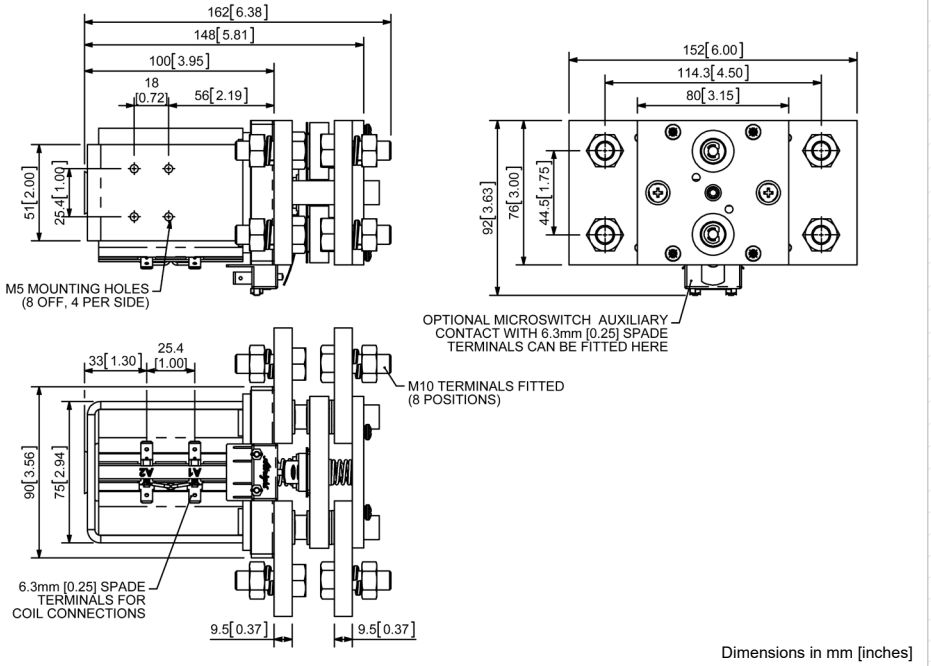
Application	Uninterrupted
Thermal Current Rating (I^{t}h)	1200A
Intermittent Current Rating:	
30% Duty	2190A
40% Duty	1895A
50% Duty	1695A
60% Duty	1550A
70% Duty	1435A
Rated Fault Current Breaking Capacity (I^{t}cn) Resistive Load: *(in accordance with UL508*)*	
SW1002	1800A at 60V D.C.
Maximum Recommended Contact Voltages (U_e):	
SW1002	60V D.C.
Typical Voltage Drop per pole across New Contacts at 1200A:	
Normally Open	50mV
Normally Closed	60mV
Mechanical Durability	>400 x 10^3 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 (N/O Contacts to Close):	70ms
Typical Drop-Out Time (N/O Contacts to Open):	
Without Suppression	15ms
With Diode and Resistor *(Subject to resistance value)*	100ms
Main Contact Change over time (milliseconds):	
Normally Closed to Normally Open	40ms
Normally Open to Normally Closed	40ms
Typical Contact Bounce Period	< 5ms
Operating Ambient Temperature	- 40˚C to + 60˚C
Guideline Contactor Weight:	
SW1002	4350 gms
With Auxiliary	+ 20 gms
Auxiliary Details	
Auxiliary Thermal Current Rating	5A
Auxiliary Contact Switching Capabilities (Resistive Load):	
	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	722mm² [1.12 inch²]
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*	

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

The SW1002 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 SW1002, however, optionally it can be excluded from the specification. This contactor can be busbar mounted vertically or horizontally, but if mounted vertically, the coil should be at the bottom. We recommend that mounting orientation is stated where possible during contactor specification process. Optional extras include auxiliary switches, brackets, coil finishes and magnetic latching which allows the contactor to remain closed while consuming no coil power.

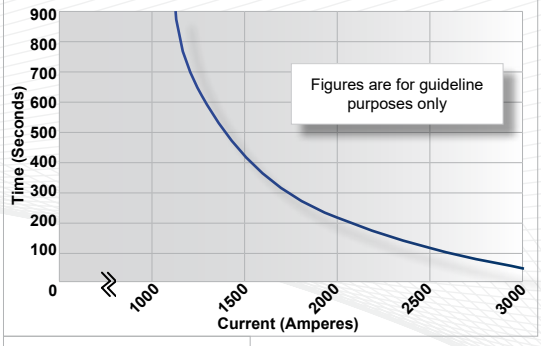


SW1002



Dimensions in mm [inches]

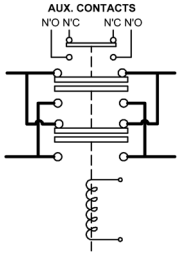
SW1002 Contactor Performance



Contact Performance Key:

Uninterrupted Current

Connection Diagram



SW1002 Available Options

General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V3	X	
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*

- **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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