

Application	Interrupted	Uninterrupted
Thermal Current Rating (I_{th})		100A
Intermittent Current Rating:		
30% Duty		185A
40% Duty		160A
50% Duty		140A
60% Duty		130A
70% Duty		120A
Rated Fault Current Breaking Capacity (I_{cn}) 5ms Time Constant: (in accordance with UL583*)		
SW822		800A at 80V
Maximum Recommended Contact Voltages (U_e):		
SW822		96V D.C.
Typical Voltage Drop per pole across New Contacts at 100A		50mV
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 (N/O contacts to close)		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:		
SW822		920 gms

Advised Connection Sizes for Maximum Continuous Current

Copper busbar	80mm ² [0.124inch ²]
Cable	Rated suitable for Application

Key: ■ = Interrupted ■ = Uninterrupted

Note: Where applicable values shown are at 20° C

* Please check our web site for product UL status

‡ The SW822 has fast drop out times and relatively slow pull-in times. Motor direction changes can be undertaken without risk of all contacts being closed at the same time. Note, some coil suppression such as diodes substantially increase drop out times and care must be taken to ensure suitable suppression is used (e.g. diode and resistor in series).

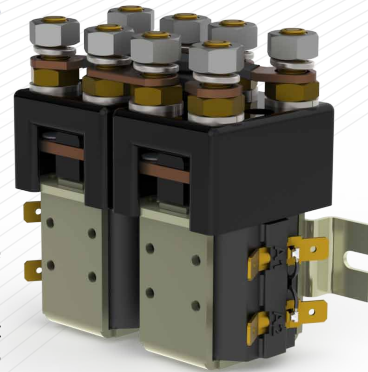
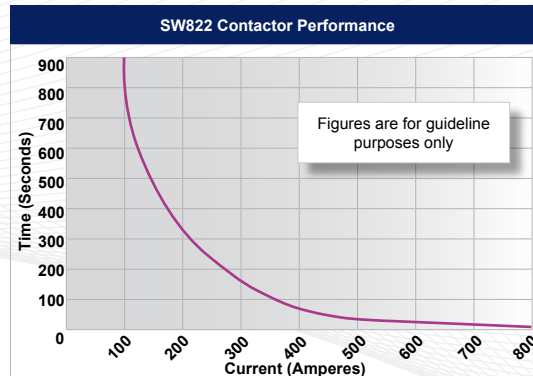
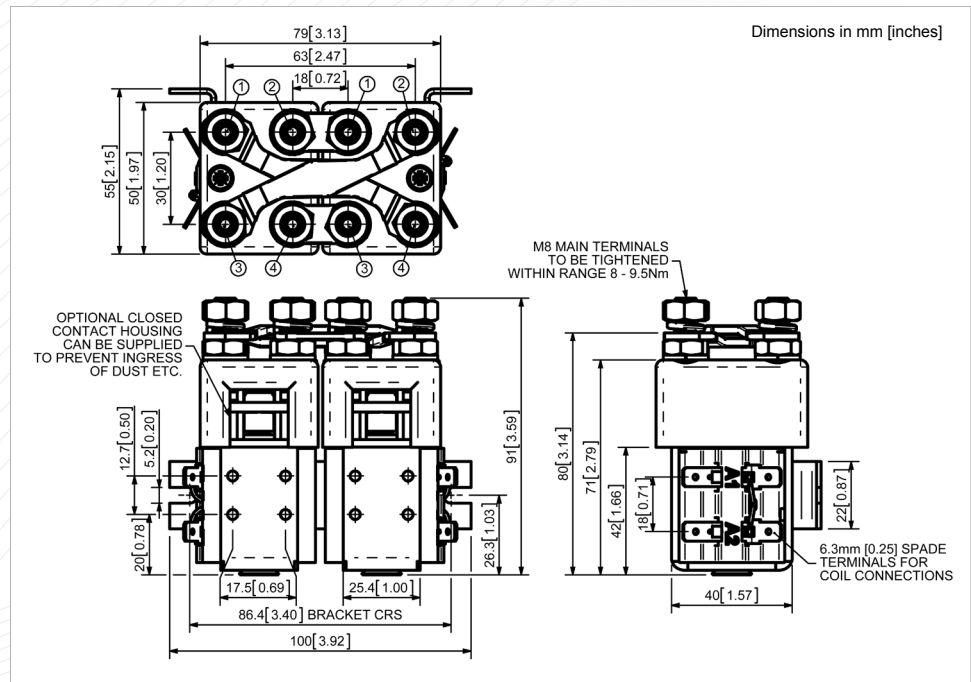
- Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.
- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com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

The SW822 has been designed for Motor Reversing applications with direct current loads, particularly motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW822 is suitable for switching Resistive, Capacitive and Inductive loads.

• **Interrupted** current - opening and closing on load with frequent switching (results in increased contact resistance).

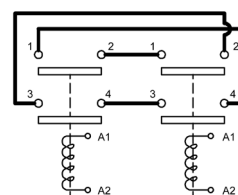
• **Uninterrupted** current - no or infrequent load switching requirements (maintains a lower contact resistance).

The SW822 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW822 has M8 stud main terminals and 6.3mm spade coil connections. Mounted using supplied brackets, 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.


SW822


Contact Performance Key:

— Interrupted and Uninterrupted Current

Connection Diagram

SW822 Available Options

General	Suffix
Auxiliary Contacts	X
Auxiliary Contacts - V3	X
Magnetic Blowouts†	X
Magnetic Blowouts - High Powered†	X
Armature Cap	o
Mounting Brackets	●
Magnetic Latching† (Not fail safe)	o M
Closed Contact Housing†	o
Environmentally Protected IP66 (see SW822P Catalogue sheet)	o P
EE Type (Steel Shroud)	X
Contacts	
Large Tips	o L
Textured Tips	o T
Silver Plating	X
Coil	
AC Rectifier Board (Fitted)	o
Coil Suppression†	o
Flying Leads	o F
Manual Override Operation	o
M4 Stud Terminals	X
M5 Terminal Board	o
Vacuum Impregnation	o
Key: Optional o Standard ● Not Available X	
† Connections become polarity sensitive	
‡ Open Housing Available	