

ELECTRIC VEHICLE DC CONTACTORS

MODEL SW822



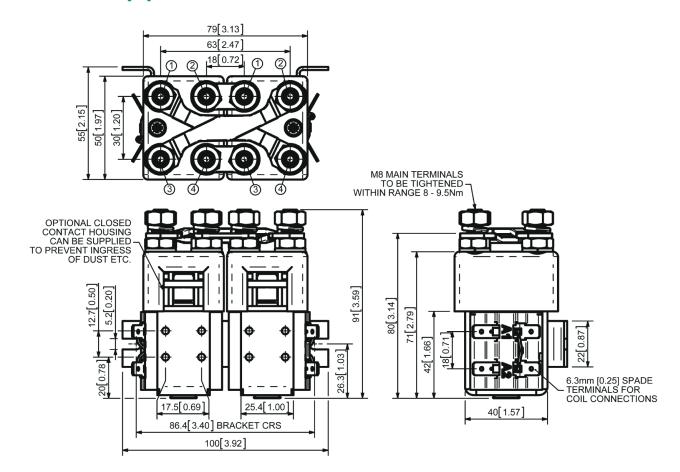


The SW822 has been designed for Motor Reversing applications with direct current loads, particularly motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW822 is suitable for switching Resistive, Capacitive and Inductive loads.

- 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.

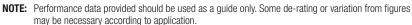
DIMENSIONS mm [in]



MODEL SW822

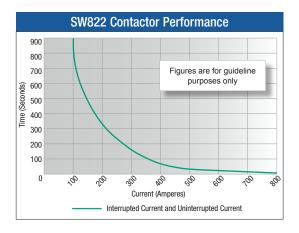
SPECIFICATIONS

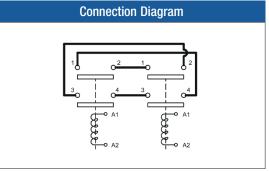
Thermal Current Rating (th) 100A Intermittent Current Rating: 30% Duty 185A 40% Duty 160A 160A 50% Duty 140A 60% Duty 130A 70% Duty 120A Rated Fault Current Breaking Capacity (kn) 5ms Time Constant: (kn accordance with UL583) SW822 800A at 48V Maximum Recommended Contact Voltages (Ug): 96V D.C. Typical Voltage Drop per pole across New Contacts at 100A: 50mV Mechanical M.T.B.F. >5 x 106 Coil Voltage Available (Ug) (Recitier board required for A.C.) From 6 to 240V D.C. Coil Power Dissipation: Highly Intermittent Rated Types 20 – 30 Watts Intermittently Rated types 13 – 15 Watts Prolonged Rated Types 13 – 15 Watts Continuously Rated Types (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 25% Duty Cycle) 60% Ug Intermittently Rated types (Max 70% Duty Cycle) 60% Ug Continuously Rated Types (Max 70% Duty Cycle) 60% Ug Prolonged Operation (Max 90% Duty Cycle) 60% Ug Continuously Rated Types (100% Duty Cycle) 60% Ug Prolonged Operation (Max 90% Duty Cycle) 60% Ug Prolo	Application	Interrupted Uninterrupted	
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50% Duty 140A 60% Duty 130A 70% Duty 120A Rated Fault Current Breaking Capacity ('cn) 5ms Time Constant: (in accordance with UL583) SW822 800A at 48V Maximum Recommended Contact Voltages (Ug): SW822 96V D.C. Typical Voltage Drop per pole across New Contacts at 100A: 50mV Mechanical M.T.B.F 55 x 106 Coil Voltage Available (Ug) (Rectifier board required for A.C.) From 6 to 240V D.C. Coil Power Dissipation: Highly Intermittent Rated Types 15 - 20 Watts Intermittently Rated types 15 - 20 Watts Continuously Rated Types 7 - 13 Watts Maximum Pull-In Voltage (Coil at 20° C) Guideline: Highly Intermittent Rated types (Max 70% Duty Cycle) 60% Ug Intermittently Rated types (Max 70% Duty Cycle) 60% Ug Continuously Rated Types (100% Duty Cycle) 66% Ug Continuously Rated Types (100% Duty Cycle) 66% Ug Drop-Out Voltage Range 10 - 25% Ug Typical Porp-Out Time (WO Contacts to Open): Without Suppression 50ms With Diode and Resistor (Subject to resistance value) Typical Contact Bounce Period 3ms Operating Ambient Temperature -40°C to +60°C Guideline Contactor Weight: SW822 Copper busbar	30% Duty	185A	
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Typical Contact Bounce Period 3ms Operating Ambient Temperature Guideline Contactor Weight: SW822 920 gms Copper busbar 80mm² [0.124inch²]	With Diode Suppression	50ms	
Operating Ambient Temperature -40°C to +60°C Guideline Contactor Weight: SW822 920 gms Copper busbar 80mm² [0.124inch²]	With Diode and Resistor (Subject to resistance value)	8 – 20ms	
Guideline Contactor Weight: SW822 920 gms Copper busbar 80mm ² [0.124inch ²]	Typical Contact Bounce Period	3ms	
SW822 920 gms Copper busbar 80mm² [0.124inch²]	Operating Ambient Temperature	-40°C to +60°C	
Copper busbar 80mm ² [0.124inch ²]	Guideline Contactor Weight:		
	SW822	920 gms	
Cable Rated suitable for Application	Copper busbar	80mm ² [0.124inch ²]	
	Cable	Rated suitable for Application	



Thermal current ratings stated are dependant upon the size of conductor being used.

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).





SW822 Available Options

General		Suffix
Auxiliary Contacts	Х	
Auxiliary Contacts – V3	Х	
Magnetic Blowouts†	X	
Magnetic Blowouts – High Powered†	X	
Armature Cap	0	
Mounting Brackets	•	
Magnetic Latching† (Not fail safe)	0	М
Closed Contact Housing [‡]	0	
Environmentally Protected IP66	0	Р
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	0	L
Textured Tips	0	T
Silver Plating	X	
Coil		
AC Rectifier Board (Fitted)	0	
Coil Suppression [†]	0	
Flying Leads	0	F
Manual Override Operation	0	
M4 Stud Terminals	Х	
M5 Terminal Board	0	
Vacuum Impregnation	0	

Key: Optional ○ Standard • Not Available X

† Connections become polarity sensitive

‡ Open Housing Available