

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*)		
SW88		800A at 48V $\frac{5}{8}$
SW88B		600A at 80V $\frac{5}{8}$
Maximum Recommended Contact Voltages (U_0):		
SW88		48V D.C.
SW88B		96V D.C.
Typical Voltage Drop per pole across New Contacts at 100A:		
Normally Open		40mV
Normally Closed		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
Main Contact Change over time (milliseconds):		
Normally Closed to Normally Open		7ms
Normally Open to Normally Closed		4ms
Typical Contact Bounce Period		3ms
Operating Ambient Temperature		-40°C to +60°C
Guideline Contactor Weight:		
SW88		910 gms
Per Auxiliary		+ 20 gms
With Blowouts		+ 50 gms
Auxiliary Details		
Auxiliary Thermal Current Rating		5A
Auxiliary Contact Switching Capabilities (Resistive Load):		
SW88A	SW88C	
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		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		
§ Normally Open contacts only - normally closed contacts are not designed to make and break current		

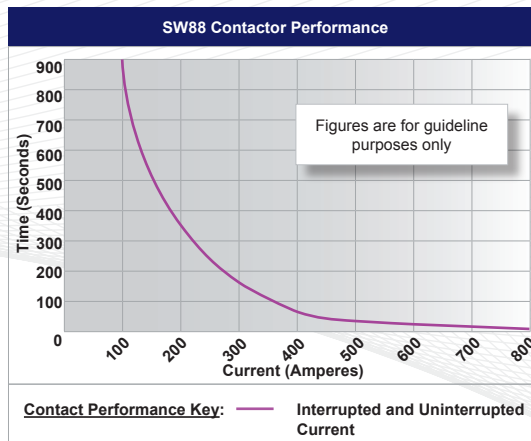
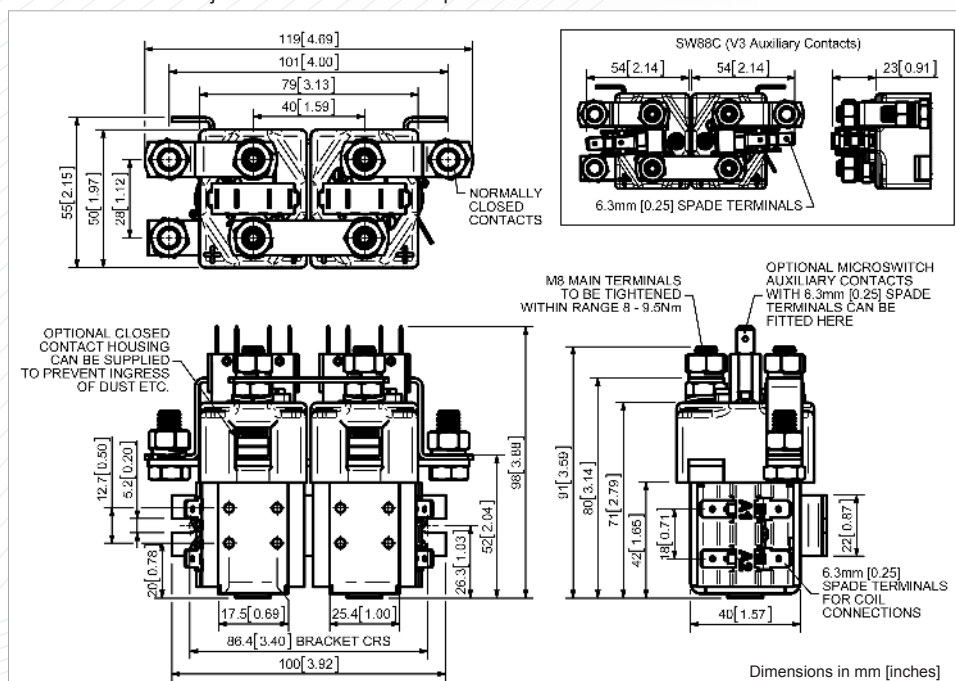
The SW88 has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW88 is suitable for switching Resistive, Capacitive and Inductive loads.

- 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 SW88 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW88 main contact circuit, designed for motor reversing, is such that it has a built in failsafe, so that if both coils are energised simultaneously the contact arrangement is open circuits. The SW88 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.



SW88



SW88 Available Options		
General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V3	○	C
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	○	B
Armature Cap	○	
Mounting Brackets	●	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing†	○	
Environmentally Protected IP66	X	
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	○	L
Textured Tips	○	T
Silver Plating	X	
Coil		
AC Rectifier Board (Fitted)	○	
Coil Suppression†	○	
Flying Leads	○	F
Manual Override Operation	○	
M4 Stud Terminals	X	
M5 Terminal Board	○	
Vacuum Impregnation	○	
Key: Optional ○ Standard ● Not Available X		
† Connections become polarity sensitive		
‡ Open Housing Available		

