

Application	Interrupted Uninterrupted	
Thermal Current Rating ([/] th)	80A	
Intermittent Current Rating:		
30% Duty	145A	
40% Duty	125A	
50% Duty	115A	
60% Duty	105A	
70% Duty	95A	
Rated Fault Current Breaking Capa (in accordance with UL583*)	acity ([/] cn) 5ms Time Constant:	
SW688	400A at 48V	
Rated Fault Current Breaking Capa accordance with UL508*)	acity ([/] cn) Resistive Load: <i>(in</i>	
SW688		
Maximum Recommended Contact		
SW688	96V D.C.	
Typical Voltage Drop per pole across New Contacts at 80A	40mV	
Mechanical Durability	>3 x 10 ⁶ Cycles	
Coil Voltage Available (U _S) (Rectifier board required for A.C.)	From 6 to 130V D.C.	
Coil Power Dissipation:		
Highly Intermittent Rated Types	14 - 21 Watts	
Intermittently Rated types	10 - 14 Watts	
Prolonged Rated Types	7 - 10 Watts	
Continuously Rated Types	5 - 7 Watts	
Maximum Pull-In Voltage (Coil at 2	0° 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)	15ms	
Typical Drop-Out Time (N/O Conta	cts to Open) §:	
Without Suppression	6ms	
With Diode Suppression	35ms	
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:		
SW688	460 gms	
Advised Connection Sizes for M	aximum Continuous Current	
Copper busbar	52mm ² [0.081inch ²]	
Cable Rated suitable for Application		
Key:	nterrupted	
Note: Where applicable values shown are at 20°C		
* Please check our web site for product UL status		
§ The SW688 has fast drop out times. Motor direction changes cal contacts being closed at the suppression such as diodes subs and care must be taken to ensure diode and resistor in series).	n be undertaken without risk of a same time. Note, some co stantially increase drop out time	

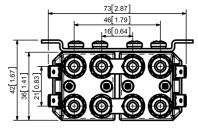
The SW688 is a miniature series double pole, free standing, compact contactor. It is designed for Motor Reversing applications with direct current loads, particularly motors as used on small traction motors, hydraulic power packs and small electric winch motors. Developed for both interrupted and uninterrupted

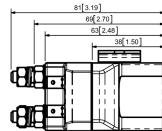
winch motors. Developed for both interrupted and uninterrupted loads, the SW688 is suitable for switching Resistive, Capacitive and Inductive loads.

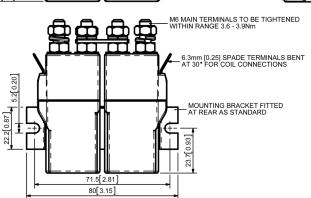
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

The SW688 features double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW688 has M6 stud main terminals and 6.3mm spade coil connections. Mounted using supplied brackets, mounting can be horizontal or vertical, when vertical the M6 contact studs should point upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this.

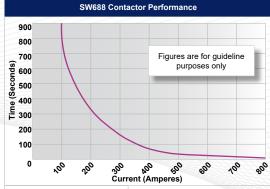












tact Performance Key:	Connection Dia
 Interrupted and Uninterrupted Current 	
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General		Suffix
Auxiliary Contacts	Χ	
Auxiliary Contacts - V3	Χ	
Magnetic Blowouts†	Χ	
Magnetic Blowouts - High Powered†	Χ	
Armature Cap	Χ	
Mounting Brackets (See Stud Contactor Range Catalogue)	•	
Magnetic Latching [†] (Not fail safe)	0	М
Closed Contact Housing	•	
Environmentally Protected IP66 (see SW688P Catalogue sheet)	0	Р
EE Type (Steel Shroud)	Χ	
Contacts		
Large Tips	Х	
Textured Tips	Χ	
Silver Plating	Χ	
Coil		
AC Rectifier Board (Fitted)	Х	
Coil Suppression [†]	0	

Key: Optional ○ Standard • Not Available X

† Connections become polarity sensitive

Flying Leads

M4 Stud Terminals
M5 Terminal Board
Vacuum Impregnation

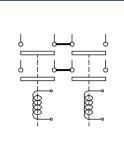
Manual Override Operation

SW688 Available Options

•	Performance data provided should be used as a guide of from figures may be necessary according to application	•

Con

- 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



diode and resistor in series)