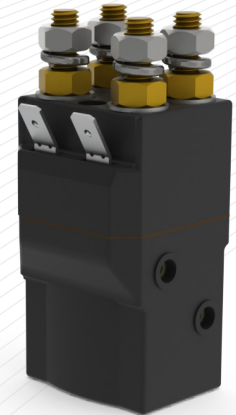


The SW68 is a miniature series double pole contactor, free standing and compact it is designed to fill the gap between 30 ampere relays and 100 ampere contactors. Devised for both interrupted and uninterrupted loads, the SW68 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include switching small traction motors, hydraulic power packs and small electric winch motors.

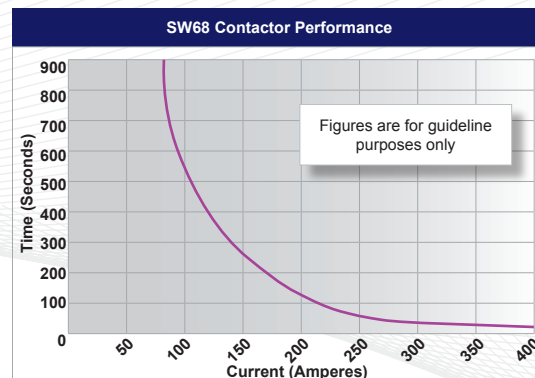
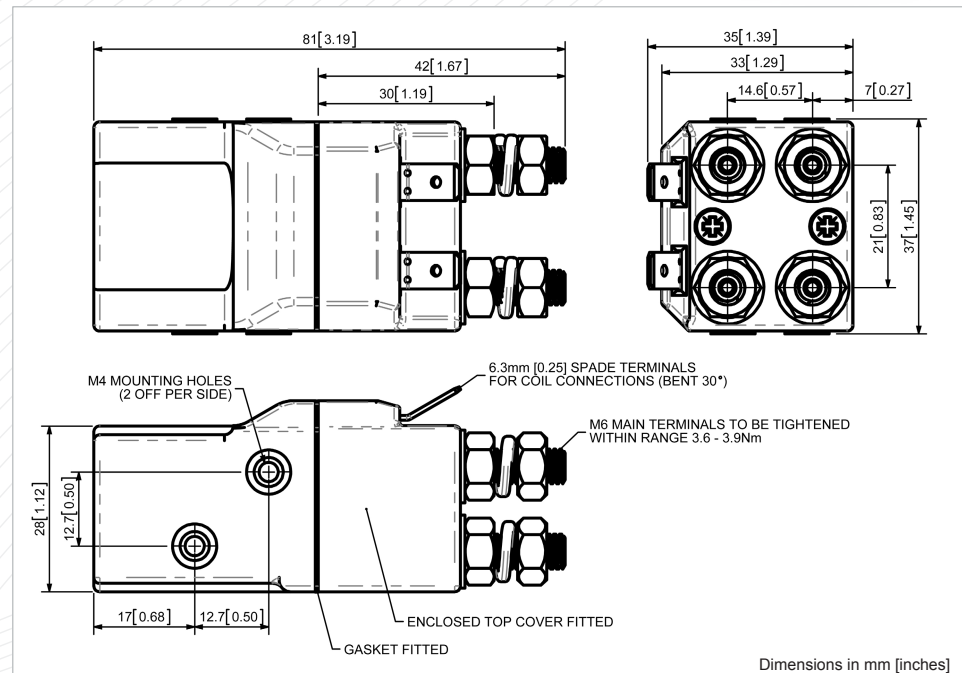
- **Interrupted** current - opening and closing on load with frequent switching (results in increased contact resistance).
- **Uninterrupted** current - no or infrequent load switching requirements (maintains a lower contact resistance).

Application	Interrupted	Uninterrupted
Thermal Current Rating ( $I_{th}$ )	80A	
Intermittent Current Rating:		
30% Duty	145A	
40% Duty	125A	
50% Duty	115A	
60% Duty	105A	
70% Duty	95A	
Rated Fault Current Breaking Capacity ( $I_{cn}$ ) 5ms Time Constant: (in accordance with UL583*)		
SW68	400A at 48V D.C.	
Rated Fault Current Breaking Capacity ( $I_{cn}$ ) Resistive Load: (in accordance with UL508*)		
SW68	120A at 48V D.C.	
Maximum Recommended Contact Voltages ( $U_0$ ):		
SW68	96V D.C.	120V D.C.
Typical Voltage Drop per pole across New Contacts at 80A	<40mV	
Mechanical M.T.B.F	>3 x 10 <sup>6</sup>	
Coil Voltage Available (Us)	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 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	15ms	
Typical Drop-Out Time (N/O Contacts 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:		
SW68	220 gms	
<b>Advised Connection Sizes for Maximum Continuous Current</b>		
Copper busbar	52mm <sup>2</sup> [0.081inch <sup>2</sup> ]	
Cable	Rated suitable for Application	
<b>Key:</b> <span style="color:red">■</span> = Interrupted <span style="color:blue">▲</span> = Uninterrupted		
<b>Note:</b> Where applicable values shown are at 20° C		
* Please check our web site for product UL status		

The SW68 features double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW68 has M6 stud main terminals and 6.3mm spade coil connections. It can be mounted via M4 tapped holes or mounting brackets – either supplied fitted, or as separate items. Mounting can be on the side or base of the contactor.



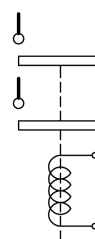
SW68



Contact Performance Key:

— Interrupted and Uninterrupted Current

Connection Diagram



SW68 Available Options		
General		Suffix
Auxiliary Contacts	X	
Auxiliary Contacts - V4	X	
Magnetic Blowouts†	X	
Magnetic Blowouts - High Powered†	X	
Armature Cap	X	
Mounting Brackets (see PC60, MB60 & SW60 Catalogue)	○	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing	●	
Environmentally Protected IP66 (see SW68P Catalogue sheet)	○	P
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	X	
Textured Tips	X	
Silver Plating	X	
Coil		
AC Rectifier Board (Fitted)	X	
Coil Suppression†	○	
Flying Leads	X	
Manual Override Operation	X	
M4 Stud Terminals	○	
M5 Terminal Board	X	
Vacuum Impregnation	X	
<b>Key:</b> ○ 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](mailto:technical@albrightinternational.com)
- Albright reserve the right to change data without prior notice