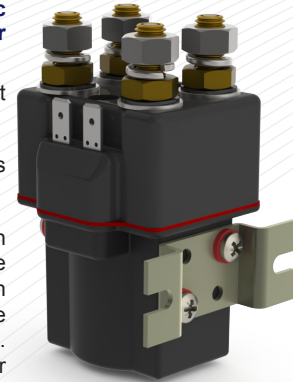


The SW82P is sealed to IP66 and has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW82P is suitable for switching Resistive, Capacitive and Inductive loads.

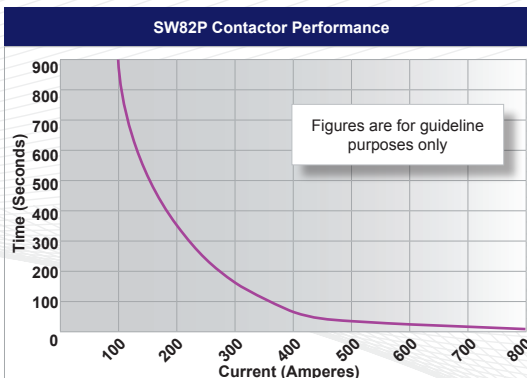
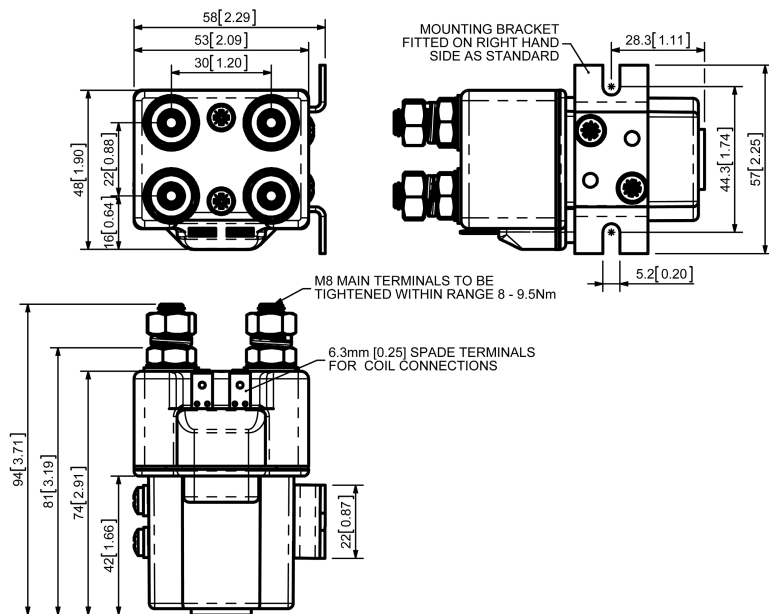
Application	Interrupted	Uninterrupted
Thermal Current Rating ( $I_{th}$ )		100A
Intermittent Current Rating:		
30% Duty		185A
40% Duty		160A
50% Duty		140A
60% Duty		130A
70% Duty		120A
Rated Fault Current Breaking Capacity ( $I_{cn}$ ) 5ms Time Constant: (in accordance with UL583*)		
SW82P		800A at 80V
Rated Fault Current Breaking Capacity ( $I_{cn}$ ) Resistive Load: (in accordance with UL583*)		
SW82P		150A at 96V D.C.
Maximum Recommended Contact Voltages ( $U_e$ ):		
SW82P		96V D.C.
Typical Voltage Drop per pole across New Contacts at 100A		50mV
Mechanical M.T.B.F.		>5 x 10 <sup>6</sup>
Coil Voltage Available ( $U_c$ ) (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:		
SW82P		450 gms
<b>Advised Connection Sizes for Maximum Continuous Current</b>		
Copper busbar		80mm <sup>2</sup> [0.124inch <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		

- 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 SW82P features double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW82P is compact in size and features an enclosed top cover and offers environmental protection to IP66. The SW82P 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.



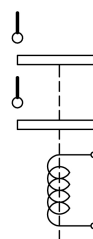
SW82P



Contact Performance Key:

— Interrupted and Uninterrupted Current

Connection Diagram



SW82P Available Options

General	Suffix
Auxiliary Contacts	X
Auxiliary Contacts - V3	X
Magnetic Blowouts†	X
Magnetic Blowouts - High Powered†	X
Armature Cap	X
Mounting Brackets (See Stud Range Catalogue)	•
Magnetic Latching† (Not fail safe)	o
Closed Contact Housing	•
Environmentally Protected IP66	•
EE Type (Steel Shroud)	X

Contacts

Large Tips	o	L
Textured Tips	o	T
Silver Plating	X	

Coil

AC Rectifier Board (Fitted)	X
Coil Suppression†	o
Flying Leads	X
Manual Override Operation	X
M4 Stud Terminals	o
M5 Terminal Board	X
Vacuum Impregnation	o

**Key:** Optional o 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