

The SW82 type of contactors has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW82 is suitable for switching Resistive Capacitive and Industrie loads.

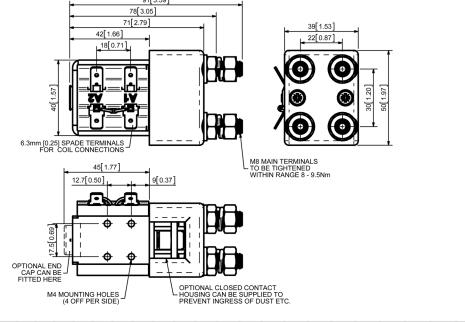
Application	Interrupted Uninterrupted
Thermal Current Rating (^I th)	100A
Intermittent Current Rating:	
30% Duty	185A
40% Duty	160A
50% Duty	140A
60% Duty	130A
70% Duty	120A
Rated Fault Current Breaking Capaci (in accordance with UL583*)	ty ([/] cn) 5ms Time Constant:
SW82	800A at 80V
Rated Fault Current Breaking Capaci (in accordance with UL508*)	ty ([/] cn) Resistive Load:
SW82	150A at 96V D.C.
Maximum Recommended Contact Vo (Both Poles in same circuit)	Itages (U _e):
SW82	96V D.C.
Typical Voltage Drop per pole across New Contacts at 100A	50mV
Mechanical Durability	>5 x 10 ⁶ Cycles
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% ∪ _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	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:	
SW82	430 gms

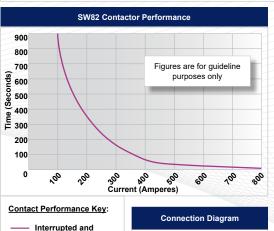
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

The SW82 features double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The contactors are compact in size and are fully serviceable with a full range of spare parts available. The SW82 has M8 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 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 in mm [inches]





Connection Diagram

General		Suffix	
Auxiliary Contacts	X		
Auxiliary Contacts - V3	Χ		
Magnetic Blowouts†	X		
Magnetic Blowouts - High Powered [†]	X		
Armature Cap	0		
Mounting Brackets (See Stud Series Catalogue)	0		
Magnetic Latching [†] (Not fail safe)	0	М	
Closed Contact Housing [‡]	0		
Environmentally Protected IP66 (see SW82P Catalogue sheet)	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	X		
M5 Terminal Board	0		
Vacuum Impregnation	0		
Key: Optional ○ Standard • N	lot Availa	ble X	
† Connections become polarity sensitive			

[‡] Open Housing Available

SW82 Available Options

Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.

65mm² [0.1inch²]

Rated suitable for Application

- 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

Uninterrupted

Current

Copper busbar

Key: ■ = Interrupted ■ = Uninterrupted

Note: Where applicable values shown are at 20°C

* Please check our web site for product UL status

Cable