

Application	Interrupted	Uninterrupted
Thermal Current Rating (^I th)	100A	125A
Intermittent Current Rating:		
30% Duty	185A	230A
40% Duty	160A	200A
50% Duty	140A	175A
60% Duty	130A	160A
70% Duty	120A	150A
Rated Fault Current Breaking Capa (in accordance with UL583*)	acity ([/] cn) 5ms Tir	me Constant:
SW80	800A	at 48V
SW80B	800A	at 80V
Rated Fault Current Breaking Capa (in accordance with UL508*)		
SW80		60V D.C.
SW80B		96V D.C.
Maximum Recommended Contact	_	
SW80	48V D.C.	60V D.C.
SW80B	96\	D.C.
Typical Voltage Drop per pole across New Contacts at 100A	40)mV
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 - 3	0 Watts
Intermittently Rated types	15 - 2	0 Watts
Prolonged Rated Types	13 - 1	5 Watts
Continuously Rated Types	7 - 13	3 Watts
Maximum Pull-In Voltage (Coil at 2)	0° C) Guideline:	
Highly Intermittent Rated types (Max 25% Duty Cycle)	604	% U _s
Intermittently Rated types (Max 70% Duty Cycle) Prolonged Operation		% U _s
(Max 90% Duty Cycle)		% U _s
Continuously Rated Types (100% Duty Cycle)	_	% U _s
Drop-Out Voltage Range		25% U _S
Typical Pull-In Time		Oms
Typical Drop-Out Time (N/O Contac		
Without Suppression		ims
With Diode Suppression	50	Oms
With Diode and Resistor (Subject to resistance value)	8 -	20ms
Typical Contact Bounce Period	3	ims
Operating Ambient Temperature	- 40°C	to + 60°C
Guideline Contactor Weight:		
SW80	350	gms
With Auxiliary	+ 20	0 gms
With Blowouts	+ 50	0 gms
Auxiliary Thermal Current Rating		5A
Auxiliary Contact Switching Cap	abilities (Resisti	ve Load):
SW80A	sv	/80C
5A at 24	V D.C.	
2A at 48	V D.C.	
0.5A at 24	10V D.C.	
Advised Connection Sizes for Ma		ous Current
		0.124inch ²]
Copper busbar		
Copper busbar Cable	Rated suitable	e for Application
Copper busbar Cable Key: = Interrupted = Unir		e for Application

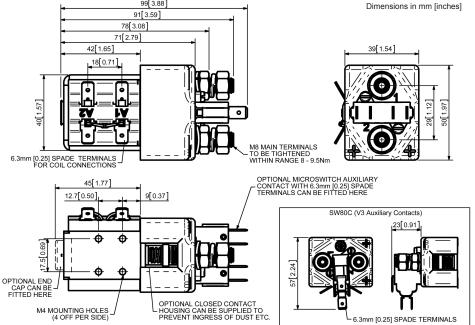
The SW80 has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks, and telecom and power distribution applications. Developed for both interrupted and uninterrupted loads, the SW80 is suitable for switching Resistive, Capacitive and Inductive loads.

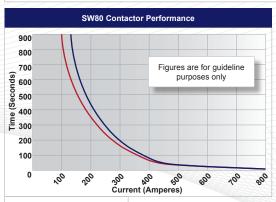
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

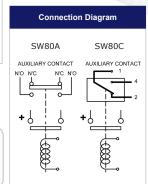
The SW80 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW80 has M8 stud main terminals and 6.3mm spade coil connections. Mounting is via M4 tapped holes or mounting brackets, either supplied fitted, 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.



SW80A







SW80 Available Options				
General		Suffix		
Auxiliary Contacts	0	Α		
Auxiliary Contacts - V3	0	С		
Magnetic Blowouts†	0	В		
Magnetic Blowouts - High Powered [†]	0	В		
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 SW80P Catalogue sheet)	0	Р		
EE Type (Steel Shroud)	0	EE		
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 •	Not Availa	able X		
† Connections become polarity sensitive				

[‡] Open Housing Available

- 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
 - Albright reserve the right to change data without prior notice

Contact Performance Key:

Interrupted Current

Uninterrupted Current