

Application	Interrupted	Uninterrupted	
Γhermal Current Rating ([/] th)	150A	200A	
ntermittent Current Rating:			
30% Duty	275A	365A	
10% Duty	235A	315A	
50% Duty	210A	285A	
60% Duty	195A	260A	
70% Duty	180A	240A	
Rated Fault Current Breaking Capa (in accordance with UL583*)			
SW180	1000A	1000A at 48V	
SW180B	1000A	A at 96V	
Maximum Recommended Contact			
SW180		D.C.	
SW180B		D.C.	
Typical Voltage Drop per pole acros			
Normally Open)mV	
Mechanical Durability Coil Voltage Available (U _s)	>5	>5 x 10 ⁶	
Rectifier board required for A.C.)	From 6 to	240V D.C.	
Coil Power Dissipation:			
Highly Intermittent Rated Types	40 - 5	0 Watts	
ntermittently Rated types	30 - 4	30 - 40 Watts	
Prolonged Rated Types	15 - 3	15 - 30 Watts	
Continuously Rated Types	10 - 1	10 - 15 Watts	
Maximum Pull-In Voltage (Coil at 2	0° C) Guideline:		
Highly Intermittent Rated types Max 25% Duty Cycle)	60% U _s		
ntermittently 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):	30	30ms	
Typical Drop-Out Time (N/O Contact	cts to Open):		
Without Suppression	8	ms	
With Diode Suppression	60	60ms	
Nith Diode and Resistor (Subject to resistance value)	25	25ms	
Typical Contact Bounce Period		ms	
Operating Ambient Temperature	- 40°C t	to + 60°C	
Guideline Contactor Weight:	_		
SW180		640 gms	
Nith Auxiliary		gms	
With Blowouts		gms	
Auxiliary Auxiliary Thermal Current Rating		5A	
Auxiliary Contact Switching Cap			
	 	<u> </u>	
SW180C		180A	
5A at 24 2A at 48			
2A at 48 0.5A at 24			
Advised Connection Sizes for Ma		ous Current	
		[0.20inch ²]	
Copper busbar Cable		e for Application	
Key: = Interrupted = Unii		o for Application	

The SW180 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 SW180 is suitable for switching Resistive, Capacitive and Inductive loads.

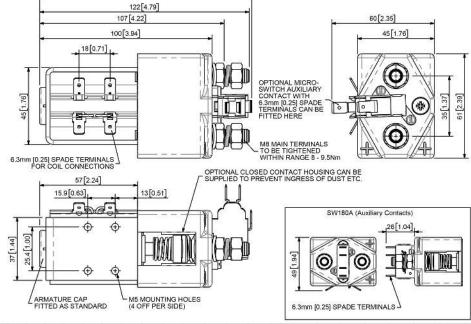
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

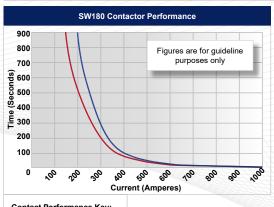
The SW180 features single pole single throw, double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW180 has M8 stud main terminals and 6.3mm spade coil connections. It can be mounted via M5 tapped holes or mounting brackets - 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.

123 4.85



Dimensions in mm [inches]





Contact Performance Key: Interrupted Current Uninterrupted Current

Connection Diagram			
SW180C	SW180A		
AUXILIARY CONTACT	AUXILIARY CONTACT NO N		

		•		
Auxiliary Contacts	0	Α		
Auxiliary Contacts - V3	0	С		
Magnetic Blowouts†	0	В		
Magnetic Blowouts - High Powered [†]	0	В		
Armature Cap	•			
Mounting Brackets (See Stud Contactor Series Catalogue)	0			
Magnetic Latching† (Not fail safe)	0	М		
Closed Contact Housing [‡]	0			
Environmentally Protected IP66	X			
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	Χ			
M5 Terminal Board				
Vacuum Impregnation	0			
Key: Optional ○ Standard • Not	Available	e X		
† Connections become polarity sensitive				

[‡] Open Housing Available

SW180 Available Options

Albright reserve the right to change data without prior notice

from figures may be necessary according to application.

Performance data provided should be used as a guide only. Some de-rating or variation

Thermal current ratings stated are dependant upon the size of conductor being used