

Application	Interrupted	Uninterrupted	
Thermal Current Rating (^I th)	150A	200A§	
Intermittent Current Rating:	_		
30% Duty	275A	365A§	
40% Duty	235A	315A§	
50% Duty	210A	285A§	
60% Duty	195A	260A§	
70% Duty	180A	240A§	
Rated Fault Current Breaking Capa (in accordance with UL583*)			
SW181		1000A at 48V§	
SW181B		at 96V§	
Maximum Recommended Contact		/ D. O.	
SW181	_	48V D.C. 96V D.C.	
SW181B			
Typical Voltage Drop per pole acro			
Normally Open)mV	
Normally Closed	_)mV	
Mechanical Durability	>5	x 10 ⁶	
Coil Voltage Available (U _S) (Rectifier board required for A.C.) Coil Power Dissipation:	From 6 to 24	40V A.C./D.C.	
Highly Intermittent Rated Types	40 - 5	0 Watts	
Intermittently Rated types		0 Watts	
Prolonged Rated Types		0 Watts	
Continuously Rated Types	_	5 Watts	
Maximum Pull-In Voltage (Coil at 2	0° C) Guideline:		
Highly Intermittent Rated types (Max 25% Duty Cycle)		% U _s	
Intermittently Rated types (Max 70% Duty Cycle)	609	% U _s	
Prolonged Operation (Max 90% Duty Cycle) Continuously Rated Types		% U _s	
(100% Duty Cycle)	669	% U _s	
Drop-Out Voltage Range	10 - 2	25% U _s	
Typical Pull-In Time (N/O Contacts to Close):	30ms		
Typical Drop-Out Time (N/O Conta			
Without Suppression		ms	
With Diode Suppression	60)ms	
With Diode and Resistor (<i>Subject to resistance value)</i> Main Contact Change over time (m		ōms	
Normally Closed to Normally Open	_	2ms	
Normally Open to Normally Closed	12	ms	
Typical Contact Bounce Period		ms	
Operating Ambient Temperature		to + 60°C	
Guideline Contactor Weight:			
SW181	780	gms	
With Auxiliary) gms	
With Blowouts	+ 50) gms	
Auxiliary	Details		
Auxiliary Thermal Current Rating		5A	
Auxiliary Contact Switching Cap	abilities (Resisti	ve Load):	
SW181C	_	181A	
5A at 24			
2A at 48		4	
0.5A at 24		1	
Advised Connection Sizes for M	_		
Copper busbar	_	[0.20inch ²]	
Cable		e for Application	
_ · ·	nterrupted		
Note: Where applicable values sho			
* Please check our web site for pro			
§ Normally Open contacts only - No per Interrupted Current, and are break load	rmally Closed sh	ould be rated as ed to make and	

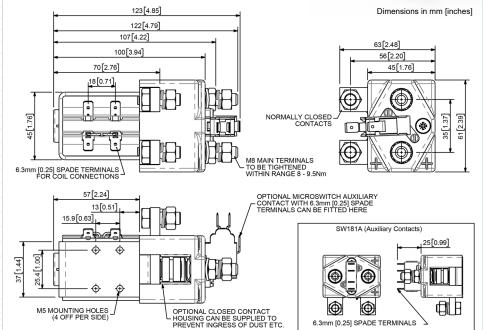
The SW181 has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW181 is suitable for switching Resistive, Capacitive and Inductive loads.

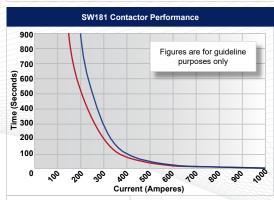
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

The SW181 features single pole double throw, double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW181 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. Note Normally Closed contacts are not recommended to make and break load.



SW181





•	_			
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		
Dust Shields [‡]	0			
Environmentally Protected IP66	X			
EE Type (Steel Shroud)	0	EE		
Contacts				
Large Tips	0	L		
Textured Tips	0	Т		
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 Available X				
† Connections become polarity sensitive				
[‡] Open Housing Available				

SW181 Available Options

Auxiliary Contacts

- 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 Currents

Suffix