

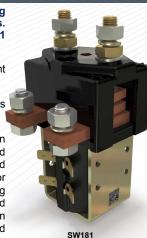
	Interrupted	Uninterrupted	ď
Thermal Current Rating (^I th)	150A	200A §	
Intermittent Current Rating:			
30% Duty	275A	365A §	
10% Duty	235A	315A §	
50% Duty	210A	285A §	
60% Duty	195A	260A §	
70% Duty	180A	240A §	
Rated Fault Current Breaking Capac (in accordance with UL583*)	city ('cn) 5ms Tir	ne Constant:	
SW181	1000A	at 48V §	
SW181B	1000A	at 96V §	
Maximum Recommended Contact V	oltages (U _e):		
SW181	48\	D.C.	
SW181B	96V	D.C.	
Typical Voltage Drop per pole across	s New Contacts	at 100A:	
Normally Open)mV	
Normally Closed)mV	
Mechanical M.T.B.F	>5	x 10 ⁶	
Coil Voltage Available (U _S) (Rectifier board required for A.C.)	From 6 to 2	40V A.C./D.C.	
Coil Power Dissipation:			
Highly Intermittent Rated Types	40 - 5	0 Watts	
ntermittently Rated types	30 - 4	0 Watts	
Prolonged Rated Types	15 - 3	0 Watts	
Continuously Rated Types	10 - 1	5 Watts	
Maximum Pull-In Voltage (Coil at 20	°C) Guideline:		
Highly Intermittent Rated types (Max 25% Duty Cycle)	609	% U _s	
Intermittently Rated types	609	% U _s	
(Max 70% Duty Cycle)	-	70 OS	
Prolonged Operation (Max 90% Duty Cycle)	609	% U _s	
Continuously Rated Types (100% Duty Cycle)	669	% U _s	
Drop-Out Voltage Range	10 - 2	20% U _s	
Typical Pull-In Time (N/O Contacts to Close):	30	Oms	
Typical Drop-Out Time (N/O Contact	ts to Open):		
Without Suppression	8	ms	
With Diode Suppression	60	Oms	
With Diode and Resistor (Subject to resistance value)	25	25ms	
Main Contact Change over time (mil	liseconds):		
Normally Closed to Normally Open	12	2ms	
Normally Open to Normally Closed	5	ims	
Typical Contact Bounce Period	3	ms	E
Operating Ambient Temperature	- 40°C	to + 60°C	
Guideline Contactor Weight:			
SW181		gms _	
With Auxiliary		gms	
With Blowouts Auxiliary I		0 gms	
Auxiliary Thermal Current Rating		5A	
Auxiliary Contact Switching Capa			П
SW181A		181C	
5A at 24V			
2A at 48V			
0.5A at 240	OV D.C.		
Advised Connection Sizes for Max	ximum Continu	ous Current	
Copper busbar	130mm ²	[0.20inch ²]	
	Rated suitable	e for Application	
Cable			ĭ
Cable Key: ✓ = Interrupted ✓ = Unint	terrupted		ı, ı
			ľ

The SW181 has been designed for direct current loads, including notors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW181 s 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 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. Please note Normally Closed contacts are not suited to make and break load.



6.3mm [0.25] SPADE TERMINALS

Suffix

Α

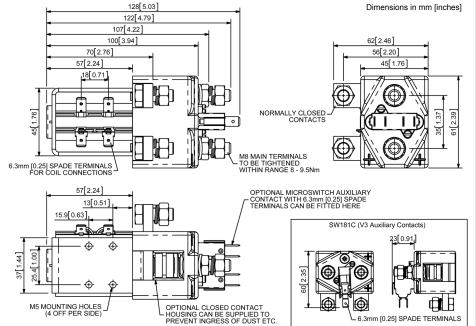
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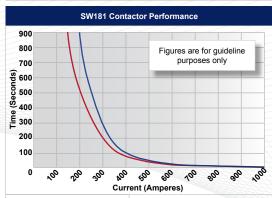
SW181 Available Options

Auxiliary Contacts

Auxiliary Contacts - V3

[‡] Open Housing Available





Connection Diagram SW181C

Auxiliary Cortacts - V3	0	C			
Magnetic Blowouts†	0	В			
Magnetic Blowouts - High Powered†	0	В			
Armature Cap	•				
Mounting Brackets (See Stud Series Catalogue)	0				
Magnetic Latching† (Not fail safe)	0	М			
Closed Contact Housing [‡]	0				
Environmentally Protected IP66	X				
EE Type (Steel Shroud)	0				
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 • I	Not Availa	ble X			
† Connections become polarity sensitive					
1					

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

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

Albright reserve the right to change data without prior notice

Contact Performance Key:

Interrupted Current

Uninterrupted Currents