

Application	Interrupted	Uninterrupted	THE OW	180 has been
Thermal Current Rating ([/] th)	150A	200A		as used on ed for both int
ntermittent Current Rating:				le for switchin
30% Duty	275A	365A	• Into	rrupted current
40% Duty	235A	315A	4	ching (results in
50% Duty	210A	285A		
60% Duty	195A	260A		nterrupted curre intains a lower
70% Duty	180A	240A		
Rated Fault Current Breaking Capa (in accordance with UL583*)	acity ([/] cn) 5ms Ti	me Constant:		180 features s
SW180	1000/	A at 48V		with silver alloy ellent conductive
SW180B	1000/	1000A at 96V		pade coil conne
Maximum Recommended Contact	Voltages (U _e):			brackets – eith
SW180	48V D.C.	60V D.C.	. / / /	orizontal or ve vards. If the re
SW180B	96\	/ D.C.		e contactor to c
Typical Voltage Drop per pole acro	ss New Contacts	at 150A:		<u>////</u>
Normally Open	30	0mV		-
Mechanical Durability	>5	>5 x 10 ⁶		-
Coil Voltage Available (U _S)	From 6 to	240V D.C.		•
(Rectifier board required for A.C.)	7 13111 0 10	1.0.0.		18[0.71]
Coil Power Dissipation:		.0 /4/-1.		
Highly Intermittent Rated Types		0 Watts		
Intermittently Rated types	_	10 Watts	4	
Prolonged Rated Types		30 Watts	45[1.76]	
Continuously Rated Types		5 Watts	4	
Maximum Pull-In Voltage (Coil at 2			<u>↓</u>	
Highly Intermittent Rated types (Max 25% Duty Cycle)	60	% U _s	6.3mm [0	.25] SPADE TERMINAL DR COIL CONNECTION
Intermittently Rated types (Max 70% Duty Cycle)	60'	% U _s	FC	
Prolonged Operation			1	57[2.24] 15.9[0.63],
(Max 90% Duty Cycle)	60'	% U _S	4	
Continuously Rated Types (100% Duty Cycle)	66	66% U _S		(
Drop-Out Voltage Range	10 - 2	10 - 25% U _s		
Typical Pull-In Time	3(30ms		
(N/O Contacts to Close):			37[1.44]	Φ
Typical Drop-Out Time (N/O Conta		Bms		- 1
Without Suppression		Oms	L _A	RMATURE CAP ITTED AS STANDARD
With Diode Suppression With Diode and Resistor				
(Subject to resistance value)	2	5ms		SW180 Co
Typical Contact Bounce Period	3	Bms	900	
Operating Ambient Temperature	- 40°C	to + 60°C	800	
Guideline Contactor Weight:	_		700	+++
SW180	640	gms	ු දි 600	+
With Auxiliary	+ 2	0 gms	500 (S) 400	+
With Blowouts	+ 5	0 gms	<u>0</u> 400	
Auxiliary	Details		를 300	
Auxiliary Thermal Current Rating		5A	200	
Auxiliary Contact Switching Cap	abilities (Resist	ive Load):	100	
SW180C	SW	/180A	0	00 200 300
5A at 24	V D.C.			C
2A at 48	48V D.C.		Contact F	Performance Key:
0.5A at 24	10V D.C.		- Interrupted Current	
Advised Connection Sizes for Ma	aximum Continu	ous Current		•
Copper busbar	130mm²	[0.20inch ²]	Ur	ninterrupted Currer
Cable	Rated suitable	e for Application		
Oubio				
	nterrupted			
	· · · · · · · · · · · · · · · · · · ·			

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

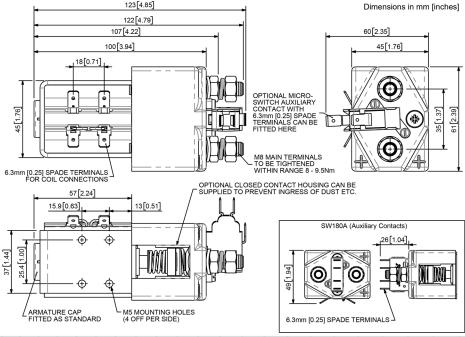
The SW180 has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW180 is suitable for switching Resistive, Capacitive and Inductive loads.

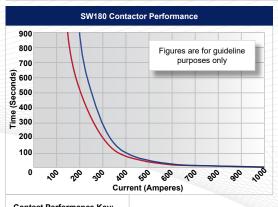
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

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]







Contact Performance Key: Interrupted Current Uninterrupted Current

Connection Diagram				
SW180C	SW180A			
AUXILIARY CONTACT	AUXILIARY CONTACT			

SW180 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	•				
Mounting Brackets (See Stud Contactor Series Catalogue)	0				
Magnetic Latching† (Not fail safe)	0	M			
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	X				
M5 Terminal Board	0				
Vacuum Impregnation	0				
Key: Optional ○ Standard • No	Available	×			
† Connections become polarity sensitive					

[‡] Open Housing Available