

HSCT BV +31 3325 70811 150A/200A

SW181 Single Pole Double Throw (Part of the SW180 Series)

Application	Interrupted	Uninterrupted	The SW181 has be
Thermal Current Rating (^I th)	150A	200A §	motors as used on Developed for both
ntermittent Current Rating:			is suitable for switc
30% Duty	275A	365A §	
40% Duty	235A	315A §	Interrupted curr
50% Duty	210A	285A §	switching (resul
60% Duty	195A	260A §	Uninterrupted c
70% Duty	180A	240A §	(maintains a low
Rated Fault Current Breaking Capac (in accordance with UL583*)	city ('cn) 5ms Ti	me Constant:	The SW181 feature
SW181	1000A	at 48V §	contacts with silver a
SW181B	1000A	at 96V §	have excellent condu
Maximum Recommended Contact V	oltages (U _e):		6.3mm spade coil co
SW181	48\	/ D.C.	mounting brackets -
SW181B	96\	/ D.C. 🧹	can be horizontal or point upwards. If the
Typical Voltage Drop per pole across	s New Contacts	at 100A:	adjust the contactor f
Normally Open	-	DmV	contacts are not suite
Normally Closed	_	DmV	
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:			70
lighly Intermittent Rated Types	40 - 5	i0 Watts	57[2.:
ntermittently Rated types	30 - 4	0 Watts	
Prolonged Rated Types	_	0 Watts	│ tir=
Continuously Rated Types		5 Watts	▏▕▕▎▎▎▎▁▋
Maximum Pull-In Voltage (Coil at 20	°C) Guideline:		
Highly Intermittent Rated types Max 25% Duty Cycle)	60	% U _S	
ntermittently Rated types	60	% U _s	
Max 70% Duty Cycle)			6.3mm [0.25] SPADE TERM FOR COIL CONNECT
Prolonged Operation Max 90% Duty Cycle)	60	% U _s	57[2.:
Continuously Rated Types	66	% U _s	
100% Duty Cycle)	-		15.9[0.63]
Drop-Out Voltage Range Typical Pull-In Time		20% U _s	
N/O Contacts to Close):	3	Oms	1
Typical Drop-Out Time (N/O Contact	s to Open):		1 144
Without Suppression	_	ims	
With Diode Suppression	6	Oms	↓ ····· ⊕
Nith Diode and Resistor Subject to resistance value)	2	5ms	M5 MOUNTING HOLI (4 OFF PER SIE
Aain Contact Change over time (mil	liseconds):		(4 OFF PER SIE
Normally Closed to Normally Open	1:	2ms	
Normally Open to Normally Closed	5	ims	SW18
Typical Contact Bounce Period	3	ims 🖌	900
Operating Ambient Temperature	- 40°C	to + 60°C	800
Guideline Contactor Weight:			700
SW181	_) gms 🖌	
With Auxiliary	-	0 gms 🧹	\$ 600 500 \$ 400
With Blowouts		0 gms 🧹	0° 400
Auxiliary I		5.4	Ĕ 300
Auxiliary Thermal Current Rating		5A	200
Auxiliary Contact Switching Capa		· · · · ·	100
SW181A		181C	0 ~ ~ ~
5A at 24\ 2A at 48\			0° 20° 20° 00, 0
2A at 48V 0.5A at 240			
Advised Connection Sizes for Ma	-	ous Current	Contact Performance Ke
Copper busbar		[0.20inch ²]	—— Interrupted Curre
Cable	_	e for Application	—— Uninterrupted Cu
Key: 🚩 = Interrupted 🛛 🖌 = Unin			
Note: Where applicable values show	•		
Please check our web site for prod	uct UL status		
Normally Open contacts only - N as per Interrupted Current, and are oad	ormally Closed not designed to	should be rated make and break	
Performance data provid from figures may be nec	essary accordi	ng to application	nly. Some de-rating or varia size of conductor being use

or further technical advice email: technical@albrightinternational.com

Albright reserve the right to change data without prior notice

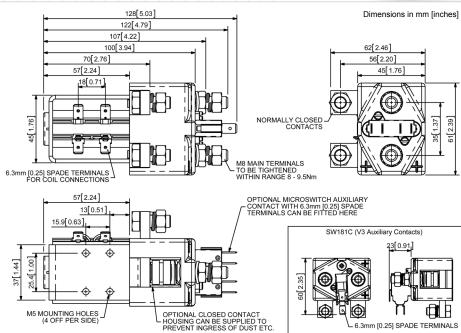
The SW181 has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted[§] loads, the SW181 is suitable for switching Resistive, Capacitive and Inductive loads.

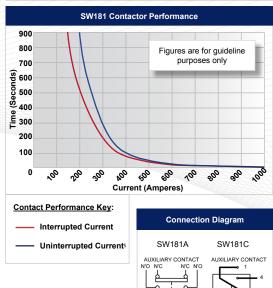
Interrupted current - opening and closing on load with frequent switching (results in increased contact resistance).

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 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.

SW181





General		Suffix		
Auxiliary Contacts	0	А		
Auxiliary Contacts - V3	0	С		
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	Х			
EE Type (Steel Shroud)	0			
Contacts				
Large Tips	0	L		
Textured Tips	0	Т		
Silver Plating	х			
Coil				
AC Rectifier Board (Fitted)	0			
Coil Suppression [†]	0			
Flying Leads	0	F		
Manual Override Operation	0			
M4 Stud Terminals	х			
M5 Terminal Board	0			
Vacuum Impregnation	0			
Key: Optional O Standard • Not Available X				
[†] Connections become polarity sensitive				
[‡] Open Housing Available				

SW181 Available Options

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nly. Some de-rating or variation