

Application	Interrupted	Uninterrupted	The SW190 has be	en
Thermal Current Rating (Ith)	150A	200A	motors as used of	
Intermittent Current Rating:			Developed for both is suitable for switch	
30% Duty	275A	365A		
40% Duty	235A	315A	 Interrupted current switching (result 	
50% Duty	210A	285A		
60% Duty	195A	260A	 Uninterrupted c (maintains a low 	
70% Duty	180A	240A		
Rated Fault Current Breaking Capa (in accordance with UL583*)	city ([/] cn) 5ms Tir	ne Constant:	The SW190 featur	
SW190	1000A at 80V	200A at 96V	alloy tips, which are conductivity. The SW	
SW190B	600A at 120V	300A at 120V		
Maximum Recommended Contact \ (Both Poles in same circuit)	/oltages (U _e):		either supplied fitted	
SW190	96V	D.C.	vertical, when vertical requirement is for do	
SW190B		/ D.C.	compensate for this.	
Typical Voltage Drop per pole acros		4		
Normally Open	40)mV	<u> </u>	
Mechanical M.T.B.F	>5	x 10 ⁶		10
Coil Voltage Available (U _S)	From 6 to	240V D.C.	57[2.24	1]
(Rectifier board required for A.C.) Coil Power Dissipation:			18[0.	71]
Highly Intermittent Rated Types	40 - 5	0 Watts	1 -	+
Intermittently Rated types		0 Watts		∃ા
Prolonged Rated Types		0 Watts	[1.76]	
Continuously Rated Types		5 Watts	45	
Maximum Pull-In Voltage (Coil at 20)° C) Guideline:			تع
Highly Intermittent Rated types	609	% U _S	6.3mm [0.25] SPADE	/
(Max 25% Duty Cycle) Intermittently Rated types		4	6.3mm [0.25] SPADE TERMINALS FOR COIL CONNECTIONS	
(Max 70% Duty Cycle)	609	% U _s		
Prolonged Operation (Max 90% Duty Cycle)	609	% U _s	4 [5]	
Continuously Rated Types	66% U _S		15.9[0.63]	
(100% Duty Cycle) Drop-Out Voltage Range	10 - 25% U _S			± 10 ±
Typical Pull-In Time			4 9 1	Ψ
(N/O Contacts to Close):	30	Oms	37[1.44] 25.4[1.00]	
Typical Drop-Out Time (N/O Contact				¢
Without Suppression		ms	M5 MOUNTING HOLES	\mathcal{T}
With Diode Suppression With Diode and Resistor	60	Oms	(4 OFF PER SIDE)	
(Subject to resistance value)	25	5ms	SW19	0 Cor
Typical Contact Bounce Period	3	ms	900	
Operating Ambient Temperature	- 40°C 1	to + 60°C	800	
Guideline Contactor Weight:			700	
SW190		gms	ह 600 ।	
With Auxiliary		gms	(\$p600 500 500 9) 400	
With Blowouts		gms	€ 300	
Auxiliary		- ^	200	
Auxiliary Thermal Current Rating		5A	100	
Auxiliary Contact Switching Capa SW190C	 	190A	<u> </u>	
		ISUA	0 ,00 ,00 ,00	C⊓ , %
			Contact Parformance K	
5A at 24\ 2A at 48\	V D.C.		Contact Performance K	-
2A at 48\				∍nt
2A at 48\ 0.5A at 24	0V D.C.	ous Current	—— Interrupted Curre	
2A at 48\ 0.5A at 24\ Advised Connection Sizes for Ma	0V D.C.	ous Current [0.20inch ²]	Interrupted Curre	ırren
2A at 48\ 0.5A at 24	OV D.C. Distimum Continu 130mm ²		-	ırren
2A at 48\ 0.5A at 24\ Advised Connection Sizes for Ma Copper busbar Cable	OV D.C. Distimum Continu 130mm ²	[0.20inch ²]	-	urrent
2A at 48\ 0.5A at 24\ Advised Connection Sizes for Ma Copper busbar Cable	ov D.C. ximum Continu 130mm² Rated suitable terrupted	[0.20inch ²]	-	urrent

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

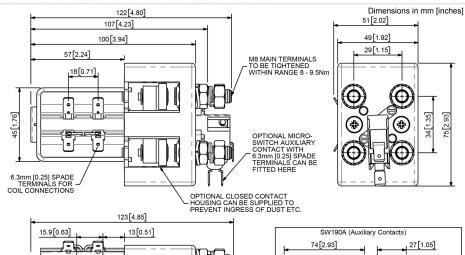
The SW190 has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW190 is suitable for switching Resistive, Capacitive and Inductive loads.

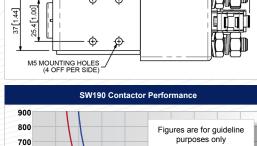
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

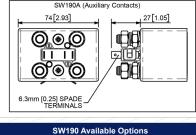
The SW190 features double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW190 has M8 stud main terminals and 6.3mm spade coil connections. It can be mounted via M5 tapped holes or mounting brackets; either supplied fitted, or 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.

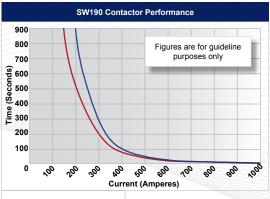


SW190









Contact Performance Key: - Interrupted Current Uninterrupted Current

Connection Diagram				
SW190C	SW190A			
AUXILIARY CONTACT	AUXILIARY CONTACT NO NC			

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	М
Closed Contact Housing [‡]	0	
Environmentally Protected IP66	X	
EE Type (Steel Shroud)	0	EE
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	X	
M5 Terminal Board	0	
Vacuum Impregnation	0	
Key: Optional ○ Standard • N	Not Availa	ble X
† Connections become polarity sensitive	;	
+		

[‡] Open Housing Available