

1500

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69 [2.⁻

Application	Interrupted	Uninterrupted	
Thermal Current Rating (¹ th)	150A		
Intermittent Current Rating:			
30% Duty	275A		
40% Duty	235A		
50% Duty	210A		
60% Duty	195A		
70% Duty	180A		
Rated Fault Current Breaking Capacity ([/] cn) 5ms Time Constant: (<i>in accordance with UL583</i> *)			
SW189	1000A at 48V	300A at 60V	
SW189B	1000A at 96V	300A at 96V	
Maximum Recommended Contact	/oltages (U _e):		
SW189	48V D.C.		
SW189B	96V D.C.		
Typical Voltage Drop per pole across New Contacts at 150A:			
Normally Open	30mV		
Mechanical Durability	>5 x 10 ⁶		
Coil Voltage Available (U _S) (Rectifier board required for A.C.)	From 6 to 240V D.C.		
Coil Power Dissipation:	40 50 Wette		
Highly Intermittent Rated Types	-	40 - 50 Watts 30 - 40 Watts	
Intermittently Rated types	-		
Prolonged Rated Types Continuously Rated Types	15 - 30 Watts 10 - 15 Watts		
Maximum Pull-In Voltage (Coil at 20° C) Guideline:			
Highly Intermittent Reted types			
(Max 25% Duty Cycle)	60% U _s		
Intermittently Rated types (Max 70% Duty Cycle)	60% U _s		
Prolonged Operation (Max 90% Duty Cycle)	60% U _s		
Continuously Rated Types (100% Duty Cycle)	66% U _s		
Drop-Out Voltage Range	10 - 25% U _s		
Typical Pull-In Time (N/O Contacts to Close):	30ms		
Typical Drop-Out Time (N/O Contacts to Open):			
Without Suppression	8n	8ms	
With Diode Suppression	60	60ms	
With Diode and Resistor (Subject to resistance value)	25ms		
Typical Contact Bounce Period	3ms		
Operating Ambient Temperature	- 40°C to + 60°C		
Guideline Contactor Weight:			
SW189	-	gms	
With Auxiliary	+ 40 gms		
With Blowouts	+ 100) gms	
Auxiliary Details			
Auxiliary Thermal Current Rating		A	
Auxiliary Contact Switching Capa	ibilities (Resistiv	/e Load):	
SW189C	SW1	89A	
5A at 24V D.C.			
2A at 48V D.C.			
0.5A at 240V D.C.			
Advised Connection Sizes for Maximum Continuous Current Copper busbar 130mm ² [0.20inch ²]			
Cable Rated suitable for Application			
Key: V = Interrupted 4 = Uninterrupted			
Note: Where applicable values sho	•		
* Please check our web site for product UL status			

The SW189 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 SW189 is suitable for switching Resistive, Capacitive and Inductive loads.

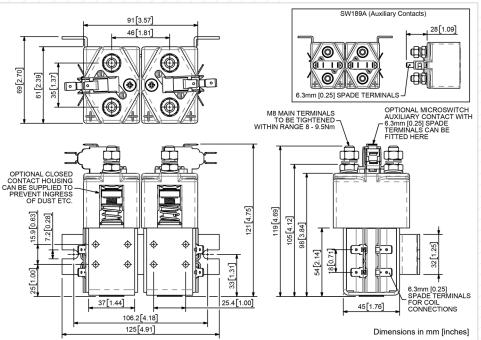
Interrupted current - opening and closing on load with frequent switching (results in increased contact resistance).

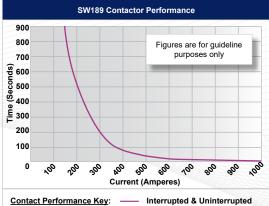
Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

The SW189 features single pole, single throw, double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW189 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.

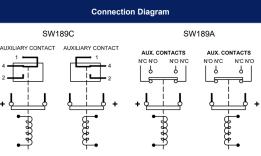


SW189





Contact Performance Key: Current



General Suffix Auxiliary Contacts А Auxiliary Contacts - V3 С 0 Magnetic Blowouts[†] В 0 В Magnetic Blowouts - High Powered[†] 0 Armature Cap х Mounting Brackets (See Stud Contactor Series Catalogue) Magnetic Latching[†] (Not fail safe) Х Closed Contact Housing[‡] 0 Environmentally Protected IP66 Х EE Type (Steel Shroud) Large Tips 0 Textured Tips 0 Silver Plating Х AC Rectifier Board (Fitted) 0 Coil Suppression[†] 0 Flying Leads 0 F Manual Override Operation Х M4 Stud Terminals Х M5 Terminal Board 0 Vacuum Impregnation 0 Kev: Optional ○ Standard ● Not Available X [†] Connections become polarity sensitive [‡] Open Housing Available

SW189 Available Options

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

Performance data provided should be used as a guide only.

Some de-rating or variation from figures may be necessary

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