

Application	Interrupted	Uninterrupted
Thermal Current Rating ( <sup>1</sup> 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 ( <sup>1</sup> cn) 5ms Time Constant: (in accordance with UL583*)		
SW195		1000A at 80V
SW195B		600A at 120V
Rated Fault Current Breaking Capacity ( <sup>1</sup> cn) Resistive Load†:		
SW195		1000A at 80V
SW195B		600A at 120V
Maximum Recommended Contact Voltages (U <sub>e</sub> ): (Both Poles in same circuit)		
SW195		96V D.C.
SW195B		120V D.C.
Typical Voltage Drop per pole across New Contacts at 150A:		
Normally Closed		40mV
Mechanical Durability		>5 x 10 <sup>6</sup>
Coil Voltage Available (U <sub>s</sub> ) (Rectifier board required for A.C.)		From 6 to 240V D.C.
Coil Power Dissipation:		
Highly Intermittent Rated Types		40 - 50 Watts
Intermittently Rated types		30 - 40 Watts
Prolonged Rated Types		15 - 30 Watts
Continuously Rated Types		10 - 15 Watts
Maximum Pull-In Voltage (Coil at 20° C) Guideline:		
Highly Intermittent Rated types (Max 25% Duty Cycle)		60% U <sub>s</sub>
Intermittently Rated types (Max 70% Duty Cycle)		60% U <sub>s</sub>
Prolonged Operation (Max 90% Duty Cycle)		60% U <sub>s</sub>
Continuously Rated Types (100% Duty Cycle)		66% U <sub>s</sub>
Drop-Out Voltage Range		10 - 25% U <sub>s</sub>
Typical Pull-In Time (N/C Contacts to Open):		30ms
Typical Drop-Out Time (N/C Contacts to Open):		
Without Suppression		8ms
With Diode Suppression		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:		
SW195		800 gms
With Auxiliary		+ 20 gms
With Blowouts		+ 50 gms
<b>Auxiliary Details</b>		
Auxiliary Thermal Current Rating		5A
<b>Auxiliary Contact Switching Capabilities (Resistive Load):</b>		
	SW195C	SW195A
	5A at 24V D.C.	
	2A at 48V D.C.	
	0.5A at 240V D.C.	
<b>Advised Connection Sizes for Maximum Continuous Current</b>		
Copper busbar		130mm <sup>2</sup> [0.20inch <sup>2</sup> ]
Cable		Rated suitable for Application

**Key:** ■ = Interrupted ■ = Uninterrupted

**Note:** Where applicable values shown are at 20° C

\* Please check our web site for product UL status

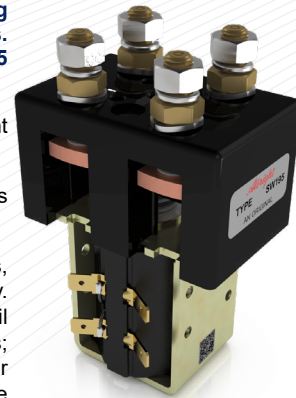
Please note Normally Closed contacts are not suited to make and break load.

- Performance data provided should be used as a guide only. Some de-rating or variation 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](mailto:technical@albrightinternational.com)
- Albright reserve the right to change data without prior notice

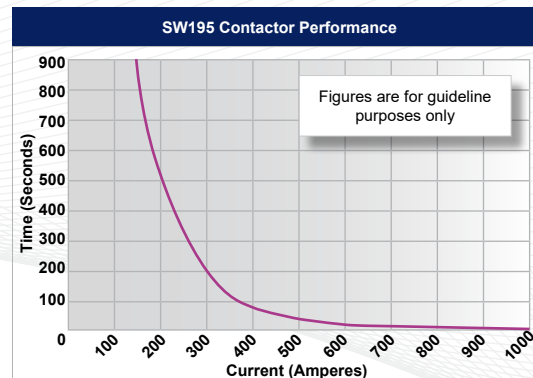
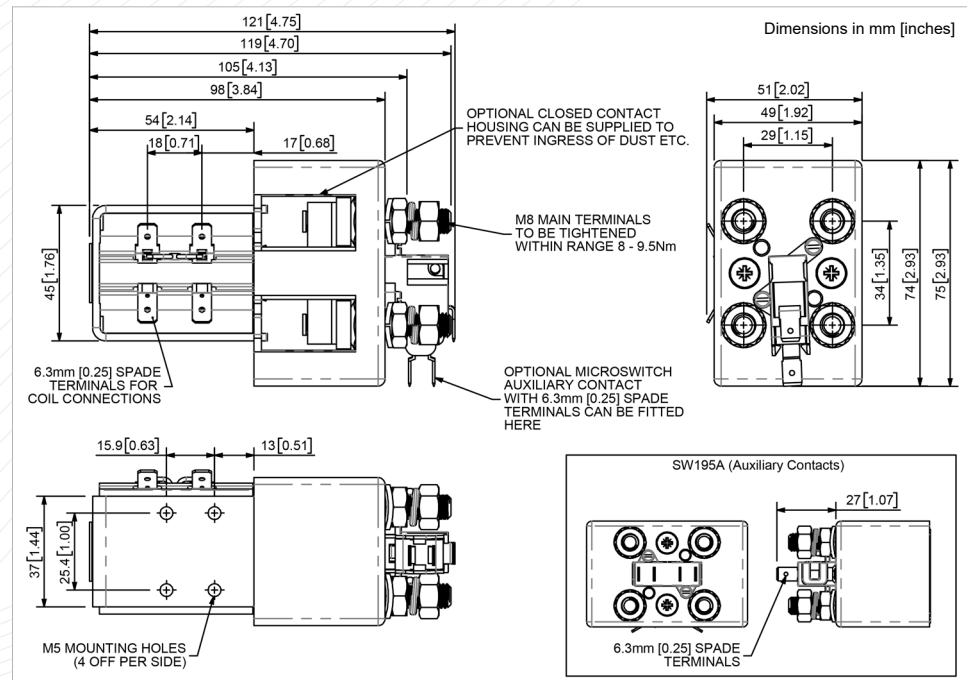
The SW195 has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW195 is suitable for switching Resistive, Capacitive and Inductive loads.

- 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 SW195 features double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW195 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.



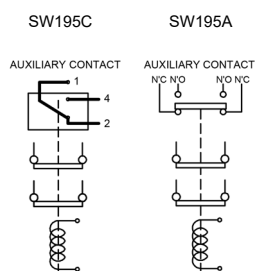
SW195



**Contact Performance Key:**

— Interrupted & Uninterrupted Current

**Connection Diagram**



**SW195 Available Options**

General		Suffix
Auxiliary Contacts	<input type="radio"/>	A
Auxiliary Contacts - V3	<input type="radio"/>	C
Magnetic Blowouts†	<input type="radio"/>	B
Magnetic Blowouts - High Powered†	<input type="radio"/>	B
Armature Cap	<input checked="" type="checkbox"/>	
Mounting Brackets (See Stud Contactor Series Catalogue)	<input type="radio"/>	
Magnetic Latching† (Not fail safe)	<input checked="" type="checkbox"/>	
Closed Contact Housing†	<input type="radio"/>	
Environmentally Protected IP66	<input checked="" type="checkbox"/>	
EE Type (Steel Shroud)	<input type="radio"/>	EE
<b>Contacts</b>		
Large Tips	<input type="radio"/>	L
Textured Tips	<input type="radio"/>	T
Silver Plating	<input checked="" type="checkbox"/>	
<b>Coil</b>		
AC Rectifier Board (Fitted)	<input type="radio"/>	
Coil Suppression†	<input type="radio"/>	
Flying Leads	<input type="radio"/>	F
Manual Override Operation	<input checked="" type="checkbox"/>	
M4 Stud Terminals	<input checked="" type="checkbox"/>	
M5 Terminal Board	<input type="radio"/>	
Vacuum Impregnation	<input type="radio"/>	
<b>Key:</b> <input type="radio"/> Optional <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Not Available X		
† Connections become polarity sensitive		
‡ Open Housing Available		