

The SU190 is an up-rated variant of the SW190 Series of contactor primarily designed to switch heavy duty D.C. loads, however it is also capable of switching A.C. loads. The SU190 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include electric motors, hydraulic power packs, winches, speed controllers and Power Distribution Systems.

Application	Interrupted	Uninterrupted	
Thermal Current Rating (¹ th)	250A	350A	
Intermittent Current Rating:			
30% Duty	450A	635A	
40% Duty	390A	550A	
50% Duty	360A	495A	
60% Duty	320A	450A	
70% Duty	300A	415A	
Rated Fault Current Breaking Capacity (^I cn) 5ms Time Constant: (in accordance with UL583*)			
SU190	1500A at 48V D.C.		
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- 1500A at 96V D.C. SU190B
- Rated Fault Current Breaking Capacity (I cn) Resistive Load: (in accordance with UL508*) 525A at 60V D.C. SU190
- 525A at 96V D.C. Maximum Recommended Contact Voltages (Ue):

SU190B

- SU190 96V D.C. SU190B 120V D.C. Typical Voltage Drop per pole across New Contacts at 100A 40mV
- >3 x 10⁶ Mechanical M.T.B.F Coil Voltage Available (Us) (Rectifier board required for A.C.) From 6 to 240V A.C./D.C
- Coil Power Dissipation: Highly Intermittent Rated Types 40 - 50 Watts Intermittently Rated types 30 - 40 Watts
- 15 30 Watts Prolonged Rated Types 10 - 15 Watts Continuously Rated Types Maximum Pull-In Voltage (Coil at 20° C) Guideline:
- Highly Intermittent Rated 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 30ms Typical Drop-Out Time (N/O Contacts to Open): Without Suppression
- 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: 760 gms
- Advised Connection Sizes for Maximum Continuous Current Copper busba 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

Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.

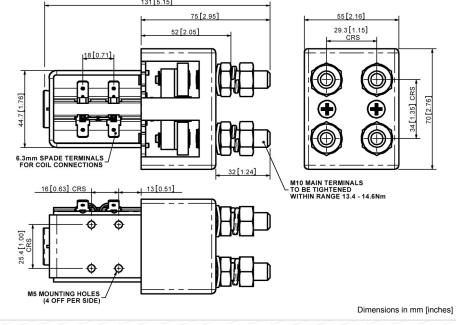
+ 50 gms

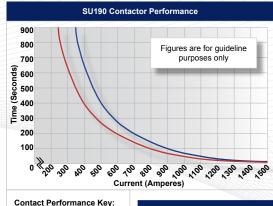
- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com
 - Albright reserve the right to change data without prior notice

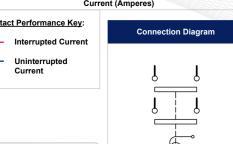
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

The contactors feature double pole, double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SU190 is easy to install, with M5 tapped holes in the switch frame or a variety of optional brackets available. Electrical connections follow industry standards, with M10 main terminal studs and an option for either 6.3mm standard spade terminals or flying leads on the coil assembly. Mounting can be vertical or horizontal, when vertical the M10 contact studs should point upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this.









SU190 Available Options				
General		Suffix		
Auxiliary Contacts	X			
Auxiliary Contacts - V3	X			
Magnetic Blowouts†	X			
Magnetic Blowouts - High Powered [†]	0	В		
Armature Cap	•			
Mounting Brackets (see SW180 Series Catalogue)	0			
Magnetic Latching (Not fail safe)†	0	M		
Closed Contact Housing	X			
Environmentally Protected IP66	Х			
EE Type (Steel Shroud)	0	EE		
Contacts				
Large Tips	X			
Textured Tips	0	Т		
Silver Plating	Х			
Coil				
AC Rectifier Board (Fitted)	0			
Coil Suppression [†]	0			
Flying Leads	0	F		
Manual Override Operation	X			
M4 Stud Terminals	X			
M5 Terminal Board	0			
Vacuum Impregnation	0			
Key: Optional ○ Standard •	Not Availa	able X		
† Connections become polarity sensit	tive			

With Blowouts