

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.

Power distribution Systems.			
Application	Interrupted	Uninterrupted	
Thermal Current Rating (Ith)	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 Ca (in accordance with UL583*)	pacity ([/] cn) 5ms Tir	me Constant:	
SU190	1500A a	1500A at 48V D.C.	
SU190B	1500A a	1500A at 96V D.C.	
	,		

- Rated Fault Current Breaking Capacity (¹cn) Resistive Load: (in accordance with UL508*)

 SU1190

 525A at 60V D.C.
- SU190B 525A at 96V D.C.

 Maximum Recommended Contact Voltages (U_e):
 (Both Poles in same circuit)
- SU190 96V D.C.
 SU190B 250V D.C.
- Typical Voltage Drop per pole across New Contacts at 100A

 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
- 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)

 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 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:
- Copper busbar

 [0.25inch²] [0.35inch²]

 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.

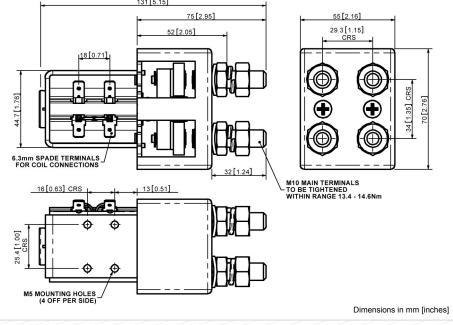
760 ams

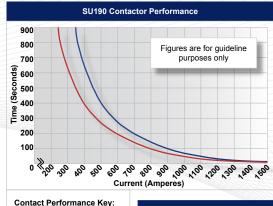
- Thermal current ratings stated are dependant upon the size of conductor being used
 For further technical advice email: technical@albrightinternational.com
- Albright reserve the right to change data without prior notice

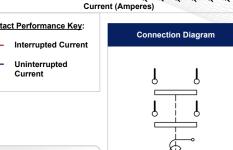
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

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.









General		Suffix
Auxiliary Contacts	Х	
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	М
Closed Contact Housing	X	
Environmentally Protected IP66	X	
EE Type (Steel Shroud)	0	EE
Contacts		
Large Tips	X	
Textured Tips	0	Т
Silver Plating	X	
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

SU190 Available Options

SU190