

Application	Interrupted	Uninterrupted
Thermal Current Rating (I _{th})	150A	200A
Intermittent Current Rating:		
30% Duty	275A	365A
40% Duty	235A	315A
50% Duty	210A	280A
60% Duty	190A	260A
70% Duty	180A	240A
Rated Fault Current Breaking Capacity (I _{cn}) 5ms Time Constant: (in accordance with UL583*)		
SU80	800A at 48V D.C.	
SU80B	800A at 80V D.C.	
Rated Fault Current Breaking Capacity (I _{cn}) Resistive Load: (in accordance with UL508*)		
SU80	300A at 60V D.C.	
SU80B	300A at 96V D.C.	
Maximum Recommended Contact Voltages (U _c):		
SU80	48V D.C.	60V D.C.
SU80B		96V D.C.
Typical Voltage Drop per pole across New Contacts at 150A	40mV	
Mechanical Durability	>3 x 10 ⁶ Cycles	
Coil Voltage Available (U _c) (Rectifier board required for A.C.)	From 6 to 240V A.C./D.C.	
Coil Power Dissipation:		
Highly Intermittent Rated Types	20 - 30 Watts	
Intermittently Rated types	15 - 20 Watts	
Prolonged Rated Types	13 - 15 Watts	
Continuously Rated Types	7 - 13 Watts	
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	20ms	
Typical Drop-Out Time (N/O Contacts to Open):		
Without Suppression	5ms	
With Diode Suppression	50ms	
With Diode and Resistor (Subject to resistance value)	8 - 20ms	
Typical Contact Bounce Period	3ms	
Operating Ambient Temperature	- 40°C to + 60°C	
Guideline Contactor Weight:		
SU80	350 gms	
With Auxiliary	+ 20 gms	
With Blowouts	+ 50 gms	
Auxiliary Details		
Auxiliary Thermal Current Rating	5A	
Auxiliary Contact Switching Capacities (Resistive Load):		
	SU80C	SU80A
	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	97mm ² [0.15inch ²]	129mm ² [0.20inch ²]
Cable	Rated suitable for Application	

Key: ▶ = Interrupted ▶ = Uninterrupted

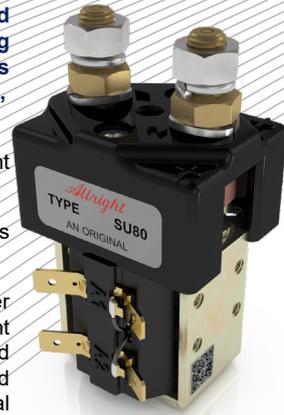
Note: Where applicable values shown are at 20° C

* Please check our web site for product UL status

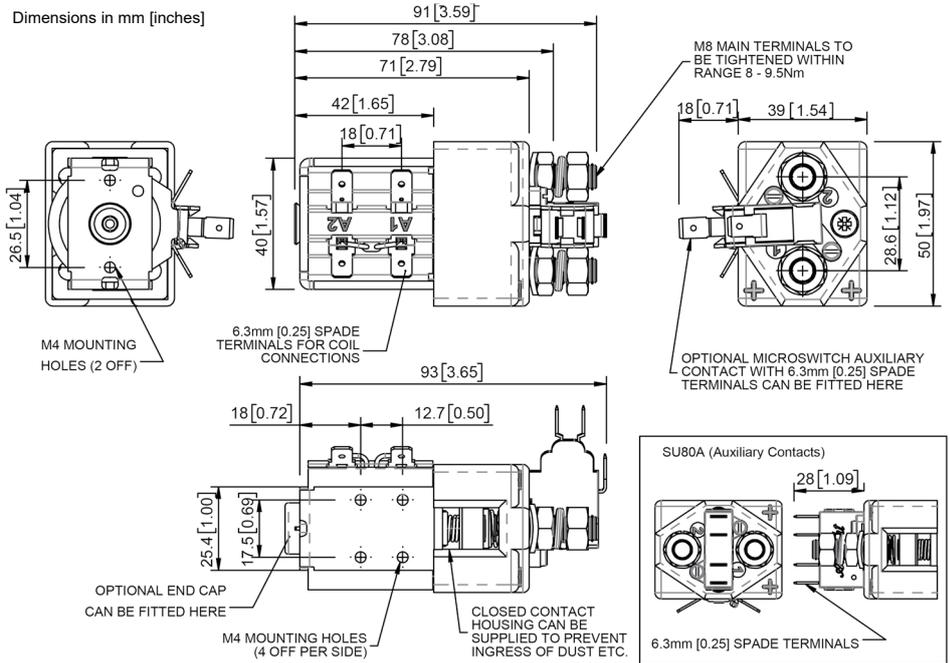
The SU80 is an up-rated version of the SW80 Contactor designed for Interrupted and Uninterrupted loads. It is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include, but are not limited to, electric motors, hydraulic power packs, winches, speed controllers, UPS and Power Distribution Systems.

- **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).

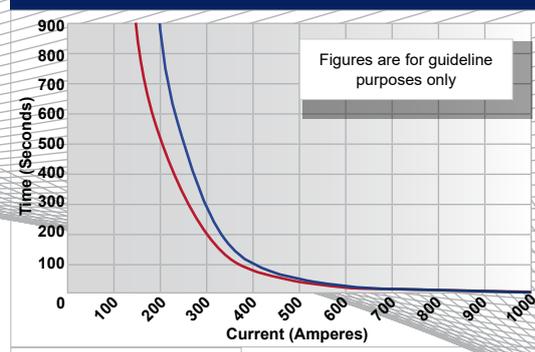
The SU80 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. Economical in price they compare favourably with sealed automotive style solenoid switches which cannot be serviced or inspected for contact wear. Mounting can be vertical or horizontal, 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.



SU80



SU80 Contactor Performance



Contact Performance Key:

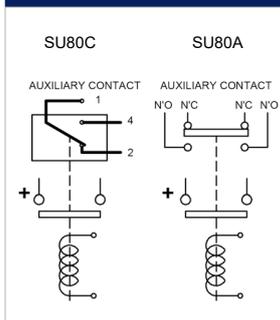
- Interrupted Current
- Uninterrupted Current

SU80 Available Options

General	Suffix
Auxiliary Contacts	○ A
Auxiliary Contacts - V3	○ C
Magnetic Blowouts†	○ B
Magnetic Blowouts - High Powered†	○ B
Armature Cap	○
Mounting Brackets (see Stud Series Catalogue)	○
Magnetic Latching† (Not fail safe)	○ M
Closed Contact Housing	○
Environmentally Protected IP66	○ P
EE Type (Steel Shroud)	○ EE
Contacts	
Large Tips	○ L
Textured Tips	○ T
Silver Plating	X
Coil	
AC Rectifier Board (Fitted)	○
Coil Suppression†	○
Flying Leads	○ F
Junior Power Timer Connector	○
Manual Override Operation	○
M4 Stud Terminals	X
M5 Terminal Board	○
Vacuum Impregnation	○
Key: ○ Optional ○ Standard ● Not Available X	

† Connections become polarity sensitive

Connection Diagrams



- 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
- Albright reserve the right to change data without prior notice