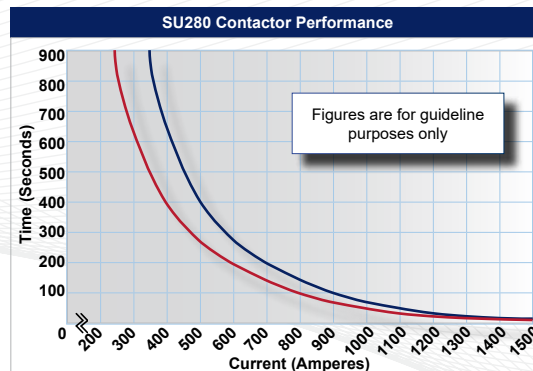
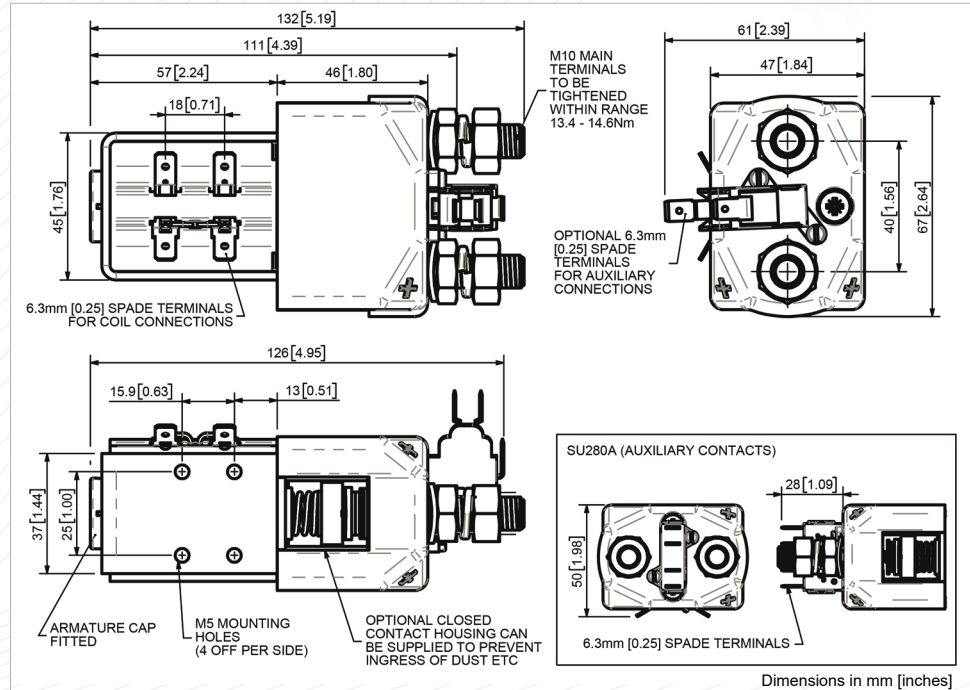
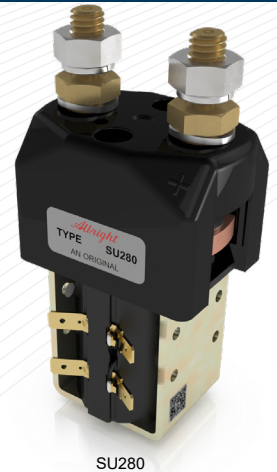


Application	Interrupted	Uninterrupted
Thermal Current Rating (I_{th})	250A	350A
Intermittent Current Rating:		
30% Duty	450A	640A
40% Duty	395A	555A
50% Duty	355A	495A
60% Duty	325A	450A
70% Duty	300A	420A
Rated Fault Current Breaking Capacity (I_{cn}) 5ms Time Constant: (in accordance with UL583*)		
SU280	1500A at 48V D.C.	
SU280B	1500A at 80V D.C.	
Rated Fault Current Breaking Capacity (I_{cn}) Resistive Load: (in accordance with UL508*)		
SU280	525A at 60V D.C.	
SU280B	525A at 96V D.C.	
Maximum Recommended Contact Voltages (U_0):		
SU280	48V D.C.	60V D.C.
SU280B		96V D.C.
Typical Voltage Drop per pole across New Contacts at 250A		40mV
Mechanical Durability		>3 x 10 ⁶ Cycles
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)		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		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:		
SU280		755 gms
With Auxiliary		+ 20 gms
With Blowouts		+ 50 gms
Auxiliary Details		
Auxiliary Thermal Current Rating		5A
Auxiliary Contact Switching Capabilities (Resistive Load):		
SU280C	SU280A	
	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		228mm ² [0.353 inch 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 SU280 has been designed for direct current loads, particularly motors as used on electronic vehicles such as industrial trucks, airport tractors and such like.

- 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).

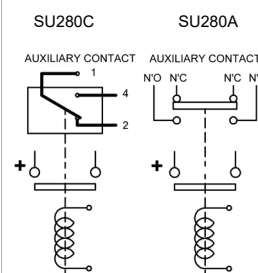
The contactors have double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. They are easy to install, with M5 tapped holes in the switch frame together with a range of mounting brackets. Mounting can be vertical or horizontal, when vertical the M10 contact studs should point upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this.



Contact Performance Key:

— Interrupted Current
— Uninterrupted Current

Connection Diagram



SU280 Available Options

General	Suffix
Auxiliary Contacts	○ A
Auxiliary Contacts - V3	○ C
Magnetic Blowouts†	○ B
Magnetic Blowouts - High Powered†	○ B
Armature Cap	●
Mounting Brackets	○
Magnetic Latching† (Not fail safe)	○ M
Closed Contact Housing	○
Environmentally Protected IP66 (see SU280P Catalogue Sheet)	○ P
EE Type (Steel Shroud)	○ EE
Contacts	
Large Tips	X
Textured Tips	○ T
Silver Plating	X
Coil	
AC Rectifier Board (Fitted)	○
Coil Suppression†	○
Flying Leads	○ F
Junior Power Timer Connector	○
Manual Override Operation	X
M4 Stud Terminals	X
M5 Terminal Board	○
Vacuum Impregnation	○
Key: Optional ○ Standard ● Not Available X † Connections become polarity sensitive	