

Application	Interrupted	Uninterrupted
Thermal Current Rating (¹ th)		250A
Intermittent Current Rating:		
30% Duty		450A
40% Duty		395A
50% Duty		355A
60% Duty		325A
70% Duty		300A
Maximum Recommended Contact Voltages (U _e):		
SU285P		48V D.C.
SU285BP		96V D.C.
Typical Voltage Drop per pole across New Contacts at 250A		40mV
Mechanical M.T.B.F		>3 x 10 ⁶
Coil Voltage Available (Us)		From 6 to 240V A.C./D.C.
Coil Power Dissipation:		
Very Intermittently 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:		
Very Intermittently 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%
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		25ms
Typical Contact Bounce Period		3ms
Operating Ambient Temperature		- 40° C to + 60° C
Guideline Contactor Weight:		
SU285P		755 gms
With Auxiliary		+ 20 gms
With Blowouts		+ 50 gms

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

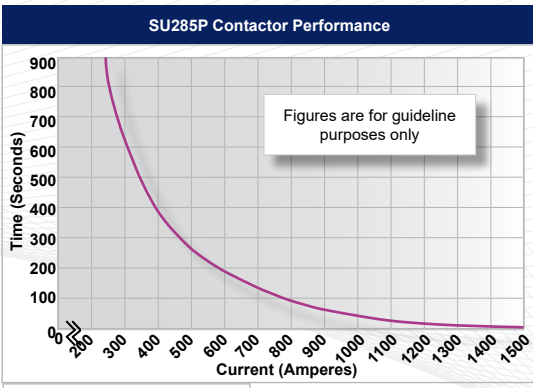
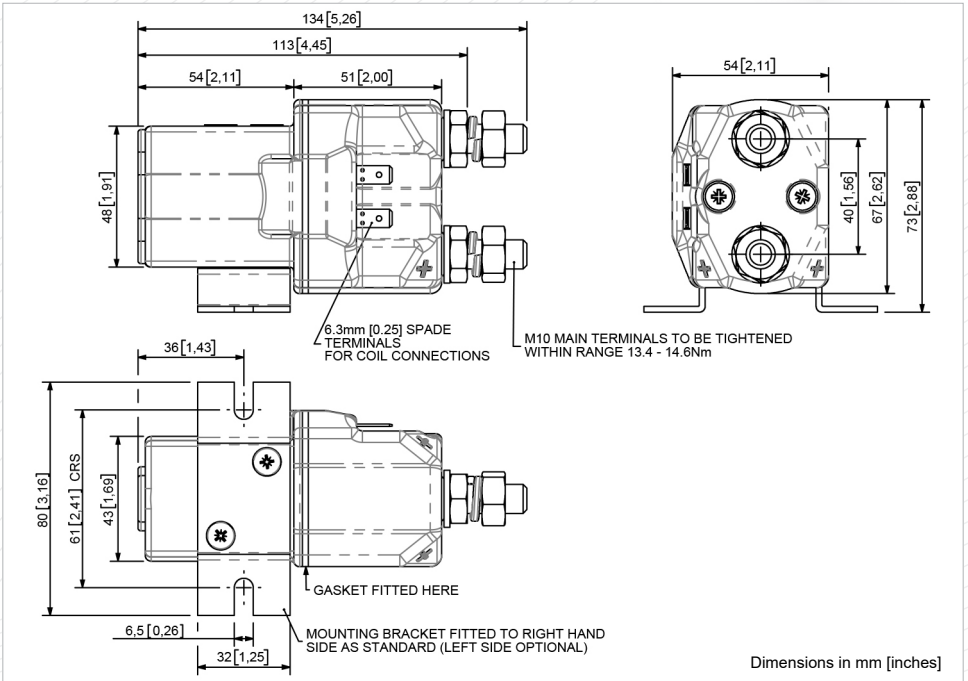
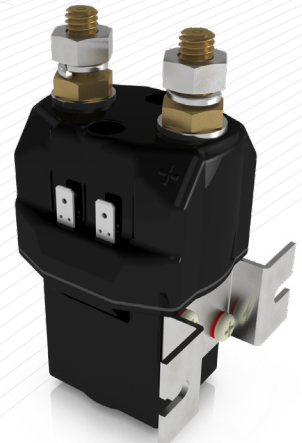
* Please check our web site for product UL status

Please note Normally Closed contacts are not suited for regular switching at stated nominal currents

The SU285P has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks.

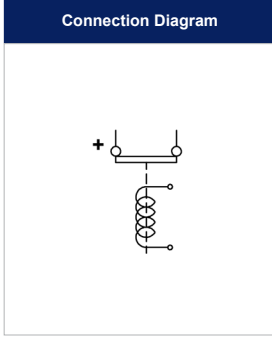
- Interrupted** current - opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted** current - no or infrequent load switching requirements (maintains a lower contact resistance).

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 complete with screws and washers. Mounting can be vertical or horizontal, when vertical the M10 contact studs should point downwards. If the requirement is for upwards orientation, we can adjust the contactor to compensate for this.



Contact Performance Key:

— Interrupted and Uninterrupted Current



SU285P Available Options		
General		Suffix
Auxiliary Contacts (as shown)	X	
Auxiliary Contacts - V3	X	
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	○	B
Armature Cap	X	
Mounting Brackets (see Stud Series Catalogue)	●	
Magnetic Latching (Not fail safe)†	X	M
Closed Contact Housing	●	
Environmentally Protected IP66	●	P
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	X	
Textured Tips	○	T
Silver Plating	X	
Coil		
AC Rectifier Board (Fitted)	X	
Coil Suppression†	○	
Flying Leads	X	
Manual Override Operation	X	
M4 Stud Terminals	○	
M5 Terminal Board	X	
Vacuum Impregnation	○	
Key: Optional ○ Standard ● Not Available X		
† Connections become polarity sensitive		

- 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