

Application	Interrupted	Uninterrupted
Thermal Current Rating (I_{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):		
SU285	▲	48V D.C.
SU285B	▲	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) (Rectifier board required for A.C.)	▲	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:		
SU285	▲	755 gms
With Auxiliary	▲	+ 20 gms
With Blowouts	▲	+ 50 gms

Auxiliary Details	
Auxiliary Thermal Current rating	5A

Auxiliary Contact Switching Capabilities (Resistive Load):	
SU285C	SU285A
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

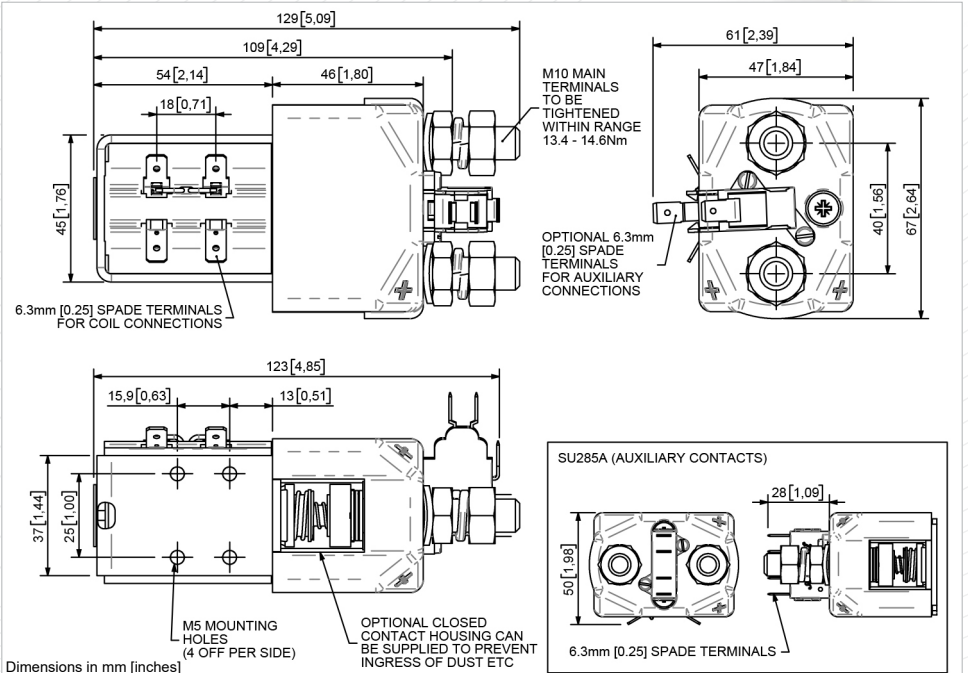
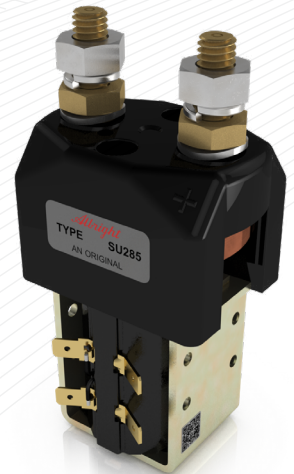
Please note Normally Closed contacts are not suited for regular switching at stated nominal currents

- 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

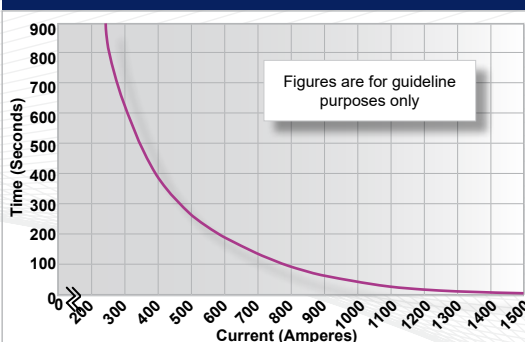
The SU285 has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks.

- **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.



SU285 Contactor Performance



Contact Performance Key:

— Interrupted and Uninterrupted Current

SU285 Available Options

General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V3	○	C
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 (see SU285P Catalogue Sheet for details)	○	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
Manual Override Operation	○	
M4 Stud Terminals	X	
M5 Terminal Board	○	
Vacuum Impregnation	○	
Key: ○ Optional Standard ● Not Available X		
[†] Connections become polarity sensitive		

Connection Diagram

