Application	Interrupted	Uninterrupted
Thermal Current Rating (I_{th})	100A	
Intermittent Current Rating:		
30% Duty	180A	
40% Duty	160A	
50% Duty	140A	
60% Duty	130A	
70% Duty	120A	
Rated Fault Current Breaking Capacity (I_{cn}) 5ms Time Constant: *(in accordance with UL583*)*		
SU60	500A at 48V D.C.	
SU60B	500A at 96V D.C.	
Rated Fault Current Breaking Capacity (I_{cn}) Resistive Load: *(in accordance with UL508*)*		
SU60	150A at 48V D.C.	
SU60B	150A at 96V D.C.	
Maximum Recommended Contact Voltages (U_e):		
SU60	48V D.C.	60V D.C.
SU60B	96V D.C.	120V D.C.
Typical Voltage Drop per pole across New Contacts at 100A	<50mV	
Mechanical M.T.B.F	>3 x 10^6	
Coil Voltage Available (U_s)	From 6 to 130V D.C.	
Coil Power Dissipation:		
Highly Intermittent Rated Types	14 - 21 Watts	
Intermittently Rated types	10 - 14 Watts	
Prolonged Rated Types	7 - 10 Watts	
Continuously Rated Types	5 - 7 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	15ms	
Typical Drop-Out Time (N/O Contacts to Open):		
Without Suppression	6ms	
With Diode Suppression	35ms	
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:		
SU60	217 gms	
With Auxiliary	+ 20 gms	
With Blowouts	+ 50 gms	

Auxiliary Details	
Auxiliary Thermal Current Rating	5A

Auxiliary Contact Switching Capabilities (Resistive Load):	
SU60A	SU60C
5A at 24V D.C.	5A at 24V D.C.
1A at 60V D.C.	1A at 48V D.C.
0.5A at 120V D.C.	0.5A at 120V D.C.
0.25A at 240V D.C.	0.25A at 240V D.C.

Advised Connection Sizes for Maximum Continuous Current	
Copper busbar	64.5mm² [0.1inch²]
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*

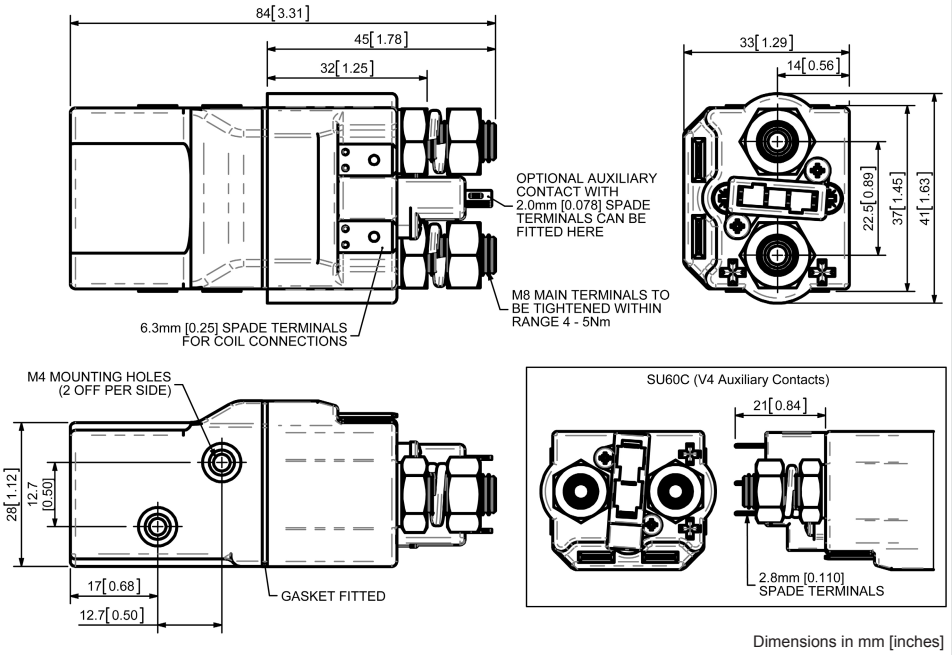
- **Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.**
- **Thermal current ratings stated are dependant upon the size of conductor being used**
- **For further technical advice email: technical@albrightinternational.com**
- **Albright reserve the right to change data without prior notice**

The SU60 is a high rated freestanding compact contactor devised for both interrupted and uninterrupted loads, and is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include motors as used on small electric vehicles and hydraulic power packs.

- 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).

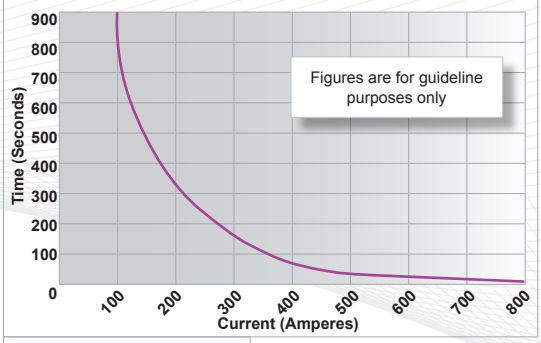
The SU60 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SU60 has M8 stud main terminals and 6.3mm spade coil connections. It can be mounted via M4 tapped holes or mounting brackets – either supplied fitted, or as separate items. Mounting can be on the side or base of the contactor.

SU60A



Dimensions in mm [inches]

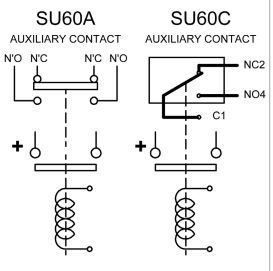
SU60 Contactor Performance



Contact Performance Key:

Interrupted & Uninterrupted Current

Connection Diagram



SU60 Available Options		
General		**Suffix**
Auxiliary Contacts	○	A
Auxiliary Contacts - V4	○	C
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	X	
Armature Cap	X	
Mounting Brackets (See SW60 Series Catalogue)	○	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing ‡	●	
Environmentally Protected IP66 (see SU60P Catalogue sheet)	○	P
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	○	L
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	X	

Key: Optional ○ Standard ● Not Available X

† *Connections become polarity sensitive*

‡ *Open Housing Available*

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