

Application	Interrupted	Uninterrupted
Thermal Current Rating (I_{th})		80A
Intermittent Current Rating:		
30% Duty		145A
40% Duty		125A
50% Duty		115A
60% Duty		105A
70% Duty		95A
Rated Fault Current Breaking Capacity (I_{cn}) 5ms Time Constant: (in accordance with UL583*)		
SW60		400A at 48V D.C.
SW60B		400A at 96V D.C.
Rated Fault Current Breaking Capacity (I_{cn}) Resistive Load: (in accordance with UL583*)		
SW60		120A at 48V D.C.
SW60B		120A at 96V D.C.
Maximum Recommended Contact Voltages (U_0):		
SW60	48V D.C.	60V D.C.
SW60B	96V D.C.	120V D.C.
Typical Voltage Drop per pole across New Contacts at 80A		<40mV
Mechanical M.T.B.F		>3 x 10 ⁶
Coil Voltage Available (U_s) (Rectifier board required for A.C.)		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:		
SW60		190 gms
With Auxiliary		+ 20 gms
With Blowouts		+ 50 gms
Auxiliary Details		
Auxiliary Thermal Current Rating		5A
Auxiliary Contact Switching Capabilities (Resistive Load):		
SW60A	SW60C	
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	52mm ² [0.08inch 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		

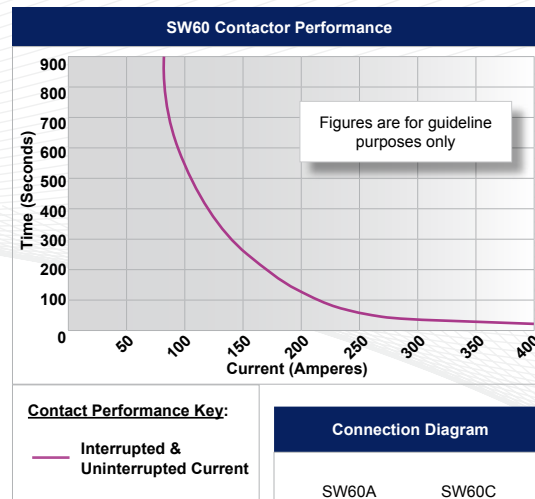
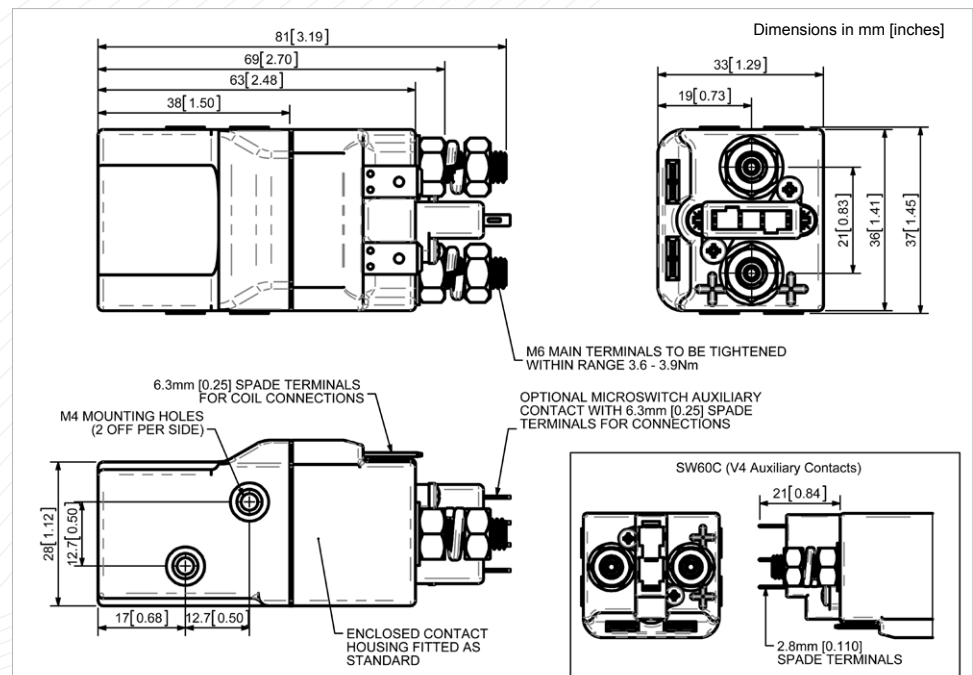
The SW60 is a miniature series single pole contactor - free standing and compact it is designed to fill the gap between 30 ampere relays and 100 ampere contactors. Devised for both interrupted and uninterrupted loads, the SW60 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include switching small traction motors, hydraulic power packs and small electric winch motors.

- 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 SW60 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW60 has M6 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.



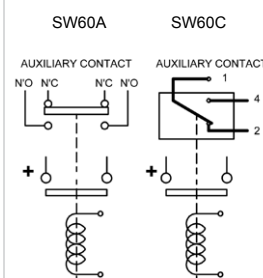
SW60



Contact Performance Key:

— Interrupted & Uninterrupted Current

Connection Diagram



SW60 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 PC60, MB60 & SW60 Catalogue)	○	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing†	○	
Environmentally Protected IP66 (see SW60P Catalogue sheet)	○	P
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	X	
Textured Tips	X	
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		

- 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