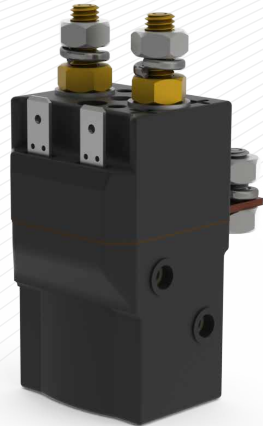


Application	Interrupted	Uninterrupted
Thermal Current Rating (I_{th})	80A [§]	
Intermittent Current Rating:		
30% Duty	145A [§]	
40% Duty	125A [§]	
50% Duty	115A [§]	
60% Duty	105A [§]	
70% Duty	95A [§]	
Rated Fault Current Breaking Capacity (I_{cn}) 5ms Time Constant: (in accordance with UL583*)		
SW61	400A at 48V D.C. [§]	
SW61B	400A at 96V D.C. [§]	
Rated Fault Current Breaking Capacity (I_{cn}) Resistive Load: (in accordance with UL583*)		
SW61	120A at 60V D.C.	
SW61B	120A at 96V D.C.	
Maximum Recommended Contact Voltages (U_g):		
SW61	48V D.C.	60V D.C.
SW61B	96V D.C.	120V D.C.
Typical Voltage Drop per pole across New Contacts at 80A	40mV	
Mechanical Durability	>3 x 10 ⁶ Cycles	
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 Main Contactor Changeover time:		
Normally Closed to Normally Open	6ms	
Normally Open to Normally Closed	4ms	
Typical Contact Bounce Period	3ms	
Operating Ambient Temperature	-40°C to +60°C	
Guideline Contactor Weight:		
SW61	230 gms	
With Auxiliary	+ 20 gms	
With Blowouts	+ 8 gms	
Auxiliary Details		
Auxiliary Thermal Current Rating	5A	
Auxiliary Contact Switching Capabilities (Resistive Load):		
	5A at 24V D.C.	
	1A at 60V D.C.	
	0.5A at 120V 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		
§ Normally Open contacts only - Normally Closed should be rated as per Interrupted Current, and are not designed to make and break load		

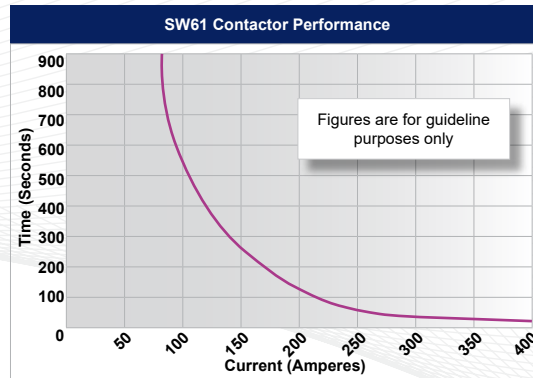
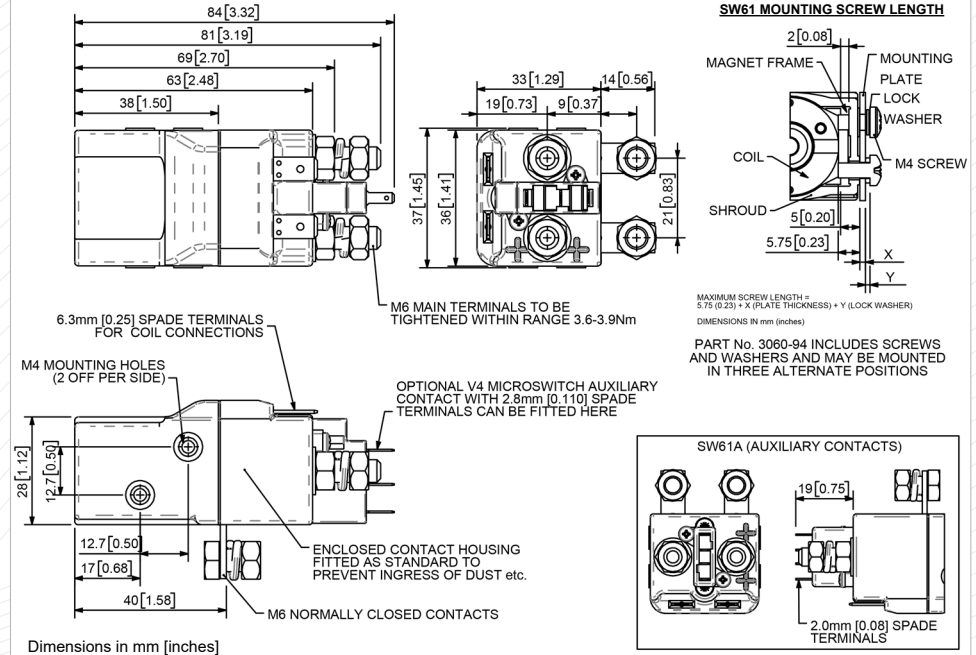
The SW61 is a miniature series single pole, free standing, compact contactor. It is designed to fill the gap between 30 ampere relays and 100 ampere contactors. Devised for both interrupted and uninterrupted loads, the SW61 is suitable for switching Resistive, Capacitive and Inductive loads. Typical 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 SW61 features single pole, double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW61 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. Please note Normally Closed contacts are not suited to make and break load.



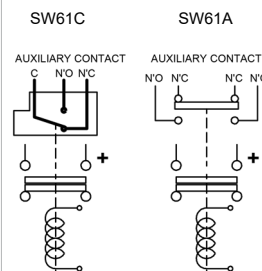
SW61



Contact Performance Key:

— Interrupted and Uninterrupted Current

Connection Diagram



SW61 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 Stud Contactor Series Catalogue)	○
Magnetic Latching† (Not fail safe)	○ M
Closed Contact Housing†	●
Environmentally Protected IP66	X
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

‡ Enclosed top cover standard when blowouts not fitted