

The SW63P is a miniature series single pole, free standing, compact contactor which is sealed to IP66. The SW63P is designed to fill the gap between 30 ampere relays and 100 ampere contactors. Devised for both interrupted and

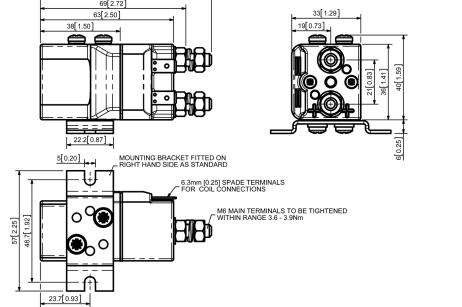
ninterrupted loads, the SW63P is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications									
Application	Interrupted	Uninterrupted	include switching small traction motors, hydraulic power packs and small electric winch motors.						
Thermal Current Rating (Ith)	80A		 Interrupted current - opening and closing on load with freque 						
ntermittent Current Rating:			switching (results in increased contact resistance).						

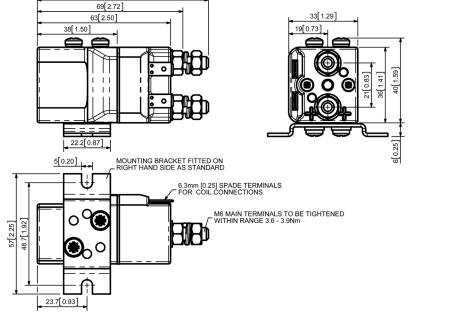
Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

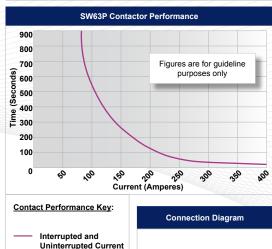
The SW63P features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW63P incorporates an enclosed top cover and offers environmental protection to IP66. The SW63P has M6 stud main terminals and 6.3mm spade coil connections. It can be mounted via mounting brackets (supplied fitted). Mounting can be on the side or base of the



SW63F Dimensions in mm [inches]







Magnetic Bioweats		
Magnetic Blowouts - High Powered†	Χ	
Armature Cap	Χ	
Mounting Brackets (See Stud Contactor Series Catalogue)	•	
Magnetic Latching [†] (Not fail safe)	X	
Closed Contact Housing	•	
Environmentally Protected IP66	•	Р
EE Type (Steel Shroud)	Χ	
Contacts		
Large Tips	Х	
Textured Tips	X	
Silver Plating	Χ	
Coil		
AC Rectifier Board (Fitted)	Х	
Coil Suppression [†]	0	
Flying Leads	X	
Manual Override Operation	X	
M4 Stud Terminals	0	
M5 Terminal Board	Χ	
Vacuum Impregnation	Χ	
Key: Optional ○ Standard • N	lot Availa	ble X

† Connections become polarity sensitive

SW63P Available Options

Auxiliary Contacts

Auxiliary Contacts - V4

Magnetic Blowouts†

• , ,						
Intermittent Current Rating:						
30% Duty	145A					
40% Duty	125A					
50% Duty	115A					
60% Duty	105A					
70% Duty	95A					
Rated Fault Current Breaking Capaci (in accordance with UL583*)	ity ([/] cn) 5ms Time Constant:					
SW63P	400A at 48V D.C.					
SW63BP	400A at 96V D.C.					
Rated Fault Current Breaking Capac (in accordance with UL508*)	tity ([/] cn) Resistive Load:					
SW63P	120A at 60V D.C.					
SW63BP	120A at 96V D.C.	4				
Maximum Recommended Contact V	oltages (U _e):					
SW63P	48V D.C. 60V D.C.					
SW63BP	96V D.C.	1				
Typical Voltage Drop per pole across New Contacts at 80A	<40mV					
Mechanical Durability	>3 x 10 ⁶ Cycles	4				
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) Intermittently Rated types	60% U _S					
(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	1				
Typical Pull-In Time 15ms						
Typical Drop-Out Time (N/O Contact	s to Open):					
Without Suppression	6ms	1				
With Diode Suppression	35ms	4				
With Diode and Resistor (Subject to resistance value)	8 - 20ms	4				
Typical Contact Bounce Period	3ms	4				
Operating Ambient Temperature	- 40°C to + 60°C					
Guideline Contactor Weight:		4				
SW63P	210 gms	1				
With Blowouts	+ 8 gms	Z				
Advised Connection Sizes for Max	kimum Continuous Current					
Copper busbar	52mm ² [0.08inch ²]	4				
Cable Rated suitable for Application						
Key: ▼ = Interrupted △ = Unint	errupted					
Note: Where applicable values show	vn are at 20°C					

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

* Please check our web site for product UL status

Suffix

В

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