

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 uninterrupted loads, the SW63P is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include switching small traction motors, hydraulic power packs and small electric winch motors.

Application	Inter	rupted	Uninterr	upted	sr
Thermal Current Rating (Ith)		8	0A		
Intermittent Current Rating:					
30% Duty		14	45A		
40% Duty		1:	25A		•
50% Duty		1	15A		
60% Duty		10	05A		Th al
70% Duty		9	5A		cc

Rated Fault Current Breaking Capacity (^Icn) 5ms Time Constant: (in accordance with UL583*)

SW63P 400A at 48V D.C.
SW63BP 400A at 96V D.C.
Rated Fault Current Breaking Capacity (¹cn) Resistive Load: (in accordance with UL508*)

SW63P 120A at 60V D.C. SW63BP 120A at 96V D.C.

Maximum Recommended Contact Voltages (U_e):

SW63P 48V D.C. 60V D.C.

SW63BP 96V D.C.

Typical Voltage Drop per pole across New Contacts at 80A

Mechanical Durability >3 x 10⁶ 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

5 - 7 Watts

15ms

6ms

35ms

Maximum Pull-In Voltage (Coil at 20° C) Guideline:

Continuously Rated Types

With Diode Suppression

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

 $\begin{array}{c} \text{Continuously Rated Types} \\ \text{(100\% Duty Cycle)} \end{array} \qquad \qquad \begin{array}{c} \text{66\% U}_{\text{S}} \\ \text{Drop-Out Voltage Range} \end{array} \qquad \qquad \begin{array}{c} \text{10 - 25\% U}_{\text{S}} \\ \text{U}_{\text{S}} \end{array}$

Typical Pull-In Time

Typical Drop-Out Time (N/O Contacts to Open):

Without Suppression

With Diode and Resistor
(Subject to resistance value)

Typical Contact Bounce Period

Operating Ambient Temperature

Guideline Contactor Weight:

SW63P 210 gms

With Blowouts + 8 gms

Advised Connection Sizes for Maximum Continuous Current

Copper busbar 52mm² [0.08inch²]

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

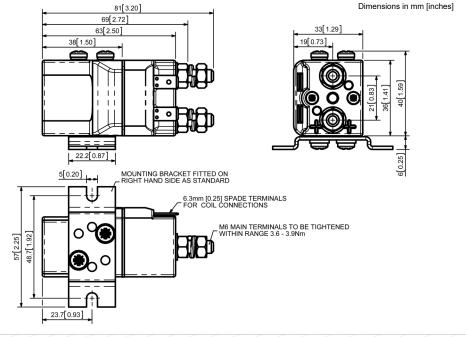
 Interrupted current - opening and closing on load with frequent switching (results in increased contact resistance).

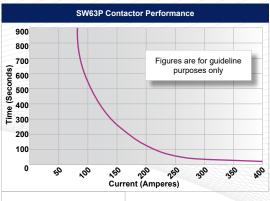
 Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

The 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 contactor.



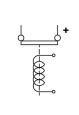
SW63F





Contact Performance Key:

Connection Diagram
Uninterrupted and
Uninterrupted Current



SW63P Available Options				
General		Suffix		
Auxiliary Contacts	Х			
Auxiliary Contacts - V4	Χ			
Magnetic Blowouts†	•	В		
Magnetic Blowouts - High Powered†	Χ			
Armature Cap	Χ			
Mounting Brackets (See Stud Contactor Series Catalogue)	•			
Magnetic Latching [†] (Not fail safe)	Χ			
Closed Contact Housing	•			
Environmentally Protected IP66	•	Р		
EE Type (Steel Shroud)	Х			
Contacts				
Large Tips	Х			
Textured Tips	X			

Silver Plating	Х	
Coil		
AC Rectifier Board (Fitted)	X	
Coil Suppression [†]	0	
Flying Leads	X	
Manual Override Operation	X	
M4 Stud Terminals	0	
M5 Terminal Board	X	
Vacuum Impregnation	X	
Key: Optional ○ Standard •	Not Availa	able X

† Connections become polarity sensitive