

SW688P - 2 x SW68P for Motor Reversing - IP66 (Part of the SW60 Series)

The SW688P is a miniature series single pole, free standing, compact contactor which is sealed to IP66. The SW688P has been designed for Motor Reversing applications with direct current loads, particularly motors as used on small traction motors, hydraulic power packs and small electric winch motors. Developed for both interrupted and uninterrupted loads, the SW688P is suitable for switching Resistive, Capacitive and Inductive

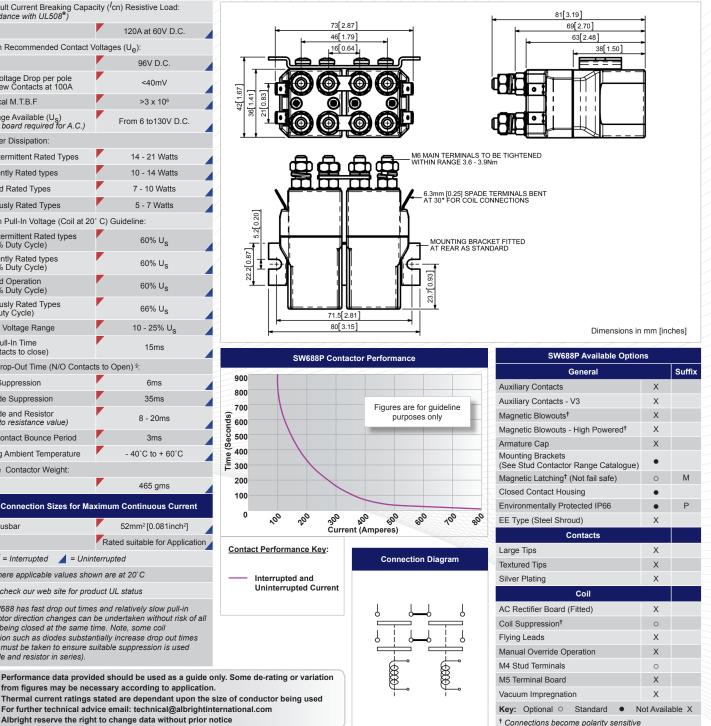
loads.		
Application	Interrupted Uninterrupted	•
Thermal Current Rating (^I th)	80A	
Intermittent Current Rating:		-
30% Duty	145A	
40% Duty	125A	Th
50% Duty	115A	CO
60% Duty	105A	we
70% Duty	95A	pro
Rated Fault Current Breaking Capac (in accordance with UL583*)	ity (^I cn) 5ms Time Constant:	6.3 or
SW688P	400A at 48V	co
Rated Fault Current Breaking Capac (in accordance with UL508*)	ity (^I cn) Resistive Load:	
SW688P	120A at 60V D.C.	
Maximum Recommended Contact V	oltages (U _e):	
SW688P	96V D.C.	
Typical Voltage Drop per pole across New Contacts at 100A	<40mV	
Mechanical M.T.B.F	>3 x 10 ⁶	
Coil Voltage Available (U _S) (Rectifier board required for A.C.)	From 6 to130V D.C.	
Coil Power Dissipation:		
Highly Intermittent Rated Types	14 - 21 Watts	
Intermittently Rated types	10 - 14 Watts	
Prolonged Rated Types	7 - 10 Watts	1
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) Continuously Rated Types	60% U _S	
(100% Duty Cycle)	66% U _S	
Drop-Out Voltage Range	10 - 25% U _s	
Typical Pull-In Time (N/O contacts to close)	15ms	
Typical Drop-Out Time (N/O Contact	s to Open) §:	
Without Suppression	6ms	-
With Diode Suppression	35ms	_
With Diode and Resistor (Subject to resistance value)	8 - 20ms	Time (Seconds)
Typical Contact Bounce Period	3ms	Sec
Operating Ambient Temperature	- 40°C to + 60°C	me
Guideline Contactor Weight:		F
SW688P	465 gms	
Advised Connection Sizes for Max	kimum Continuous Current	
Copper busbar	52mm ² [0.081inch ²]	
Cable	Rated suitable for Application	
Key: 🚩 = Interrupted 🖌 = Unint		<u>C</u>
Note: Where applicable values shown are at 20°C		
* Please check our web site for prod	luct UL status	
⁶ The SW688 has fast drop out times times. Motor direction changes can contacts being closed at the same ti suppression such as diodes substan and care must be taken to ensure su (e.g. diode and resistor in series).	be undertaken without risk of all me. Note, some coil tially increase drop out times	

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).

e SW688P features paired double pole double breaking main ontacts with silver alloy tips, which are weld resistant, hard earing and have excellent conductivity. The SW688P corporates an enclosed top cover and offers environmental otection to IP66. The SW688P has M6 stud main terminals and 3mm spade coil connections. Mounted using supplied brackets, as separate items. Mounting can be on the side or base of the ntactor.

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