

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	 Interrupted current frequent switching 	
Thermal Current Rating (^I th)	80A		
ntermittent Current Rating:		Uninterrupted curr requirements (main The SW688P features p	
30% Duty	145A		
0% Duty	125A		
0% Duty	115A	contacts with silver all wearing and have	
0% Duty	105A	incorporates an enclos	
0% Duty	95A	protection to IP66. The	
ated Fault Current Breaking Capacity accordance with UL583*)	city ('cn) 5ms Time Constant:	6.3mm spade coil conne or as separate items. M	
W688P	400A at 48V	contactor.	
Rated Fault Current Breaking Capacities (Capacities) (Catacities) (Cat	city ([/] cn) Resistive Load:		
SW688P	120A at 60V D.C.		
Naximum Recommended Contact V	/oltages (U _e):		
SW688P	96V D.C.		
ypical Voltage Drop per pole pross New Contacts at 100A	<40mV		
Aechanical Durability	>3 x 10 ⁶ Cycles	42[1.67] 36[1.41] 21[0.83]	
Coil Voltage Available (U _S)	From 6 to130V D.C.		
Rectifier board required for A.C.)	From 0 10100 V D.O.		
Coil Power Dissipation:	14 04 14/5/1-		
lighly Intermittent Rated Types	14 - 21 Watts 10 - 14 Watts	6	
Prolonged Rated Types	7 - 10 Watts		
Continuously Rated Types	5 - 7 Watts		
laximum Pull-In Voltage (Coil at 20		हि 🗂	
ighly Intermittent Rated types		5.2[0.20	
lax 25% Duty Cycle) termittently Rated types	60% U _S 60% U _S		
lax 70% Duty Cycle) rolonged Operation			
lax 90% Duty Cycle)	60% U _S		
ontinuously Rated Types 00% Duty Cycle)	66% U _S		
rop-Out Voltage Range	10 - 25% U _S		
ypical Pull-In Time N/O contacts to close)	15ms	SW688P C	
ypical Drop-Out Time (N/O Contac	ts to Open) §:		
Vithout Suppression	6ms	900	
/ith Diode Suppression	35ms	800 700	
/ith Diode and Resistor Subject to resistance value)	8 - 20ms	200 2 600	
ypical Contact Bounce Period	3ms	(\$\$600 \$\$500 \$\$00 \$\$00 \$\$00 \$\$00 \$\$00	
perating Ambient Temperature	- 40°C to + 60°C	9 2 400	
Guideline Contactor Weight:			
SW688P	465 gms	200	
Advised Connection Sizes for Ma	ximum Continuous Current		
Copper busbar	52mm ² [0.081inch ²]	0 10 50 5	
able	Rated suitable for Application		
Key: 🚩 = Interrupted 🛛 🖌 = Unin	terrupted	Contact Performance Key:	
lote: Where applicable values show	vn are at 20°C	Interrupted and	
Please check our web site for proc	luct UL status	Uninterrupted Curre	
The SW688 has fast drop out time. imes. Motor direction changes can ontacts being closed at the same tr uppression such as diodes substar ind care must be taken to ensure si e.g. diode and resistor in series).	be undertaken without risk of all me. Note, some coil ntially increase drop out times		

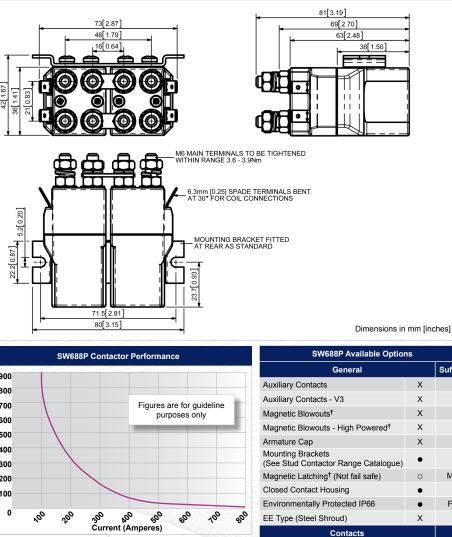
- from figures may be necessary according to application.
- Thermal current ratings stated are dependant upon the size of conductor being used
- For further technical advice email: technical@albrightinternational.com
- Albright reserve the right to change data without prior notice

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).

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

SW688P





Large Tips	х
Textured Tips	Х
Silver Plating	Х
Coil	
AC Rectifier Board (Fitted)	Х
Coil Suppression [†]	0
Flying Leads	Х
Manual Override Operation	Х
M4 Stud Terminals	0
M5 Terminal Board	Х
Vacuum Impregnation	Х
Key: Optional O Standard • N	lot Available X

[†] Connections become polarity sensitive

Albright International Ltd, Evingar Trading Estate, Ardglen Road, Whitchurch, Hampshire, RG28 7BB, UK Tel: +44 (0)1256 893060, Fax: +44 (0)1256 893562, Dedicated Sales Tel: +44 (0)1256 890030, Fax: +44 (0)1256 890043 E-mail: sales@albrightinternational.com or technical@albrightinternational.com Web Site: www.albrightinternational.com

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