Архангельск (8182)63-90-72 Астана (7172)727-132 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Волгоград (844)278-03-48 Вологда (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Краснодар (861)203-40-90 Краснодарск (391)204-63-61 Курск (4712)77-13-04 Липецк (4742)52-20-81 Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Чельны (8552)20-53-41 Никиний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орен (4852)45-49 Набережные Чельны (8552)20-53-41 Никиний Новгород (833)308-18-15 Разавы (4912)246-61-64 Самара (846)2006-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78 Севастополь (8692)22-31-93 Симферополь (3652)67-13-56 Смоленск (4812)29-41-54 Сочи (862)225-72-31 Ставрополь (8652)20-65-13 Сургут (3462)77-98-35 Тверь (4822)63-31-35 Томск (3822)98-41-53 Тула (4872)74-02-29 Тюмень (3452)66-21-18 Ульяновск (8422)24-23-59 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Ярославль (4852)69-52-93

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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
ntermittent Current Rating:	
80% Duty	145A
10% Duty	125A
50% Duty	115A
60% Duty	105A
70% Duty	95A
Rated Fault Current Breaking Capa in accordance with UL583*)	acity (^I cn) 5ms Time Constant:
SW688P	400A at 48V
Rated Fault Current Breaking Capa in accordance with UL508*)	acity ([/] cn) Resistive Load:
SW688P	120A at 60V D.C.
Maximum Recommended Contact	Voltages (U _e):
SW688P	96V D.C.
Гурісаl 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
ntermittently Rated types	10 - 14 Watts
Prolonged Rated Types	7 - 10 Watts
Continuously Rated Types	5 - 7 Watts
Maximum Pull-In Voltage (Coil at 2	0° C) Guideline:
Highly Intermittent Rated types Max 25% Duty Cycle)	60% U _S
ntermittently 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
Orop-Out Voltage Range	10 - 25% U _s
Гурісаl Pull-In Time N/O contacts to close)	15ms
Typical Drop-Out Time (N/O Contact	cts to Open) §:
Nithout Suppression	6ms
Nith Diode Suppression	35ms
Nith Diode and Resistor (Subject to resistance value)	8 - 20ms
Typical Contact Bounce Period	3ms
Operating Ambient Temperature	- 40°C to + 60°C
Guideline Contactor Weight:	
SW688P	465 gms
Advised Connection Sizes for Ma	aximum Continuous Current
Copper busbar	52mm ² [0.081inch ²]
Cable	Rated suitable for Application
Key:	nterrunted

§ The SW688 has fast drop out times and relatively slow pull-in times. Motor direction changes can be undertaken without risk of all contacts being closed at the same time. Note, some coil suppression such as diodes substantially increase drop out times and care must be taken to ensure suitable suppression is used

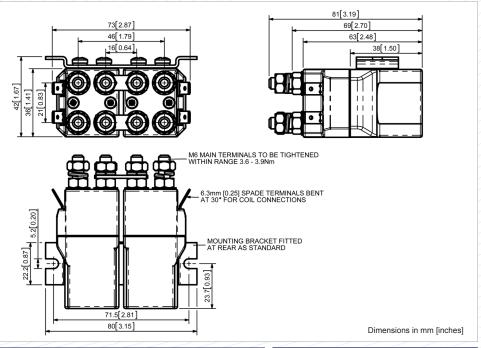
(e.g. diode and resistor in series).

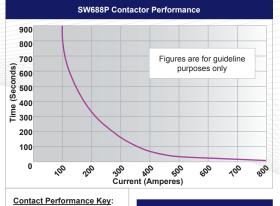
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

The SW688P features paired double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW688P incorporates an enclosed top cover and offers environmental protection to IP66. The SW688P has M6 stud main terminals and 6.3mm spade coil connections. Mounted using supplied brackets, or as separate items. Mounting can be on the side or base of the contactor.



SW688P





Interrupted and Uninterrupted Current

Connection Diagram

Auxiliary Contacts	X		
Auxiliary Contacts - V3	Χ		
Magnetic Blowouts†	Χ		ŀ
Magnetic Blowouts - High Powered†	Χ		
Armature Cap	Χ		ŀ
Mounting Brackets (See Stud Contactor Range Catalogue)	•		
Magnetic Latching [†] (Not fail safe)	0	M	ŀ
Closed Contact Housing	•		
Environmentally Protected IP66	•	Р	l
EE Type (Steel Shroud)	Χ		
Contacts			L
Large Tips	Χ		
Textured Tips	Χ		Ŀ
Silver Plating	Χ		
Coil			
AC Rectifier Board (Fitted)	Χ		
Coil Suppression [†]	0		
Flying Leads			
Tyling Loads	Χ		
Manual Override Operation	X X		
Manual Override Operation	Х		

Key: Optional ○ Standard • Not Available X

† Connections become polarity sensitive

Vacuum Impregnation

SW688P Available Options

Suffix

General