

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  
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 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42  
 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Пермь (342)205-81-47 Ростов-на-Дону (863)308-18-15 Рязань (4912)46-61-64 Самара (846)206-03-16 Санкт-Петербург (812)309-46-40 Саратов (845)249-38-78  
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 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 SW68P is a miniature series double pole, free standing, compact contactor which is sealed to IP66. The SW68P is designed to fill the gap between 30 ampere relays and 100 ampere contactors. Devised for both interrupted and uninterrupted loads, the SW68P is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include switching small traction motors, hydraulic power packs and small electric winch motors.

- **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).



SW68P

The SW68P features double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW68P incorporates an enclosed top cover and offers environmental protection to IP66. The SW68P 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.

Application	Interrupted	Uninterrupted
Thermal Current Rating ( $I_{th}$ )	▲	80A
Intermittent Current Rating:		
30% Duty	▲	145A
40% Duty	▲	125A
50% Duty	▲	115A
60% Duty	▲	105A
70% Duty	▲	95A

Rated Fault Current Breaking Capacity ( $I_{cn}$ ) 5ms Time Constant: (in accordance with UL583*)		
SW68P	▲	400A at 48V D.C.
Rated Fault Current Breaking Capacity ( $I_{cn}$ ) Resistive Load: (in accordance with UL508*)		
SW68P	▲	120A at 60V D.C.

Maximum Recommended Contact Voltages ( $U_E$ ): (Both Poles in same circuit)		
SW68P	▲	96V D.C.

Typical Voltage Drop per pole across New Contacts at 80A	▲	<40mV
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Mechanical M.T.B.F	▲	>3 x 10 <sup>6</sup>
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Coil Voltage Available (Us)	▲	From 6 to 130V D.C.
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Coil Power Dissipation:		
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Highly Intermittent Rated Types	▲	14 - 21 Watts
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Intermittently Rated types	▲	10 - 14 Watts
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Prolonged Rated Types	▲	7 - 10 Watts
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Continuously Rated Types	▲	5 - 7 Watts
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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)	▲	60% $U_S$
Continuously Rated Types (100% Duty Cycle)	▲	66% $U_S$
Drop-Out Voltage Range	▲	10 - 25% $U_S$
Typical Pull-In Time	▲	15ms
Typical Drop-Out Time (N/O Contacts to Open):		
Without Suppression	▲	6ms
With Diode Suppression	▲	35ms
With 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:		
SW68P	▲	225 gms

Highly Intermittent Rated types (Max 25% Duty Cycle)	▲	60% $U_S$
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Intermittently Rated types (Max 70% Duty Cycle)	▲	60% $U_S$
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Prolonged Operation (Max 90% Duty Cycle)	▲	60% $U_S$
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Continuously Rated Types (100% Duty Cycle)	▲	66% $U_S$
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Drop-Out Voltage Range	▲	10 - 25% $U_S$
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Typical Pull-In Time	▲	15ms
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Typical Drop-Out Time (N/O Contacts to Open):		
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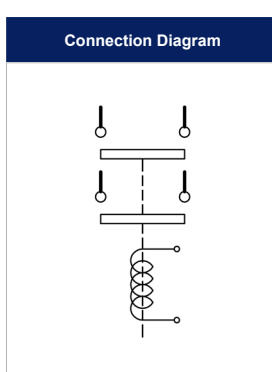
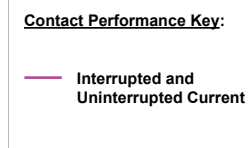
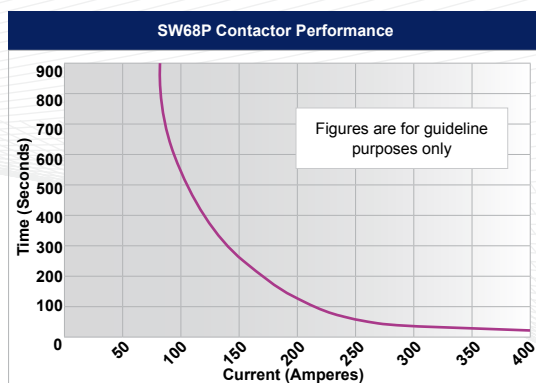
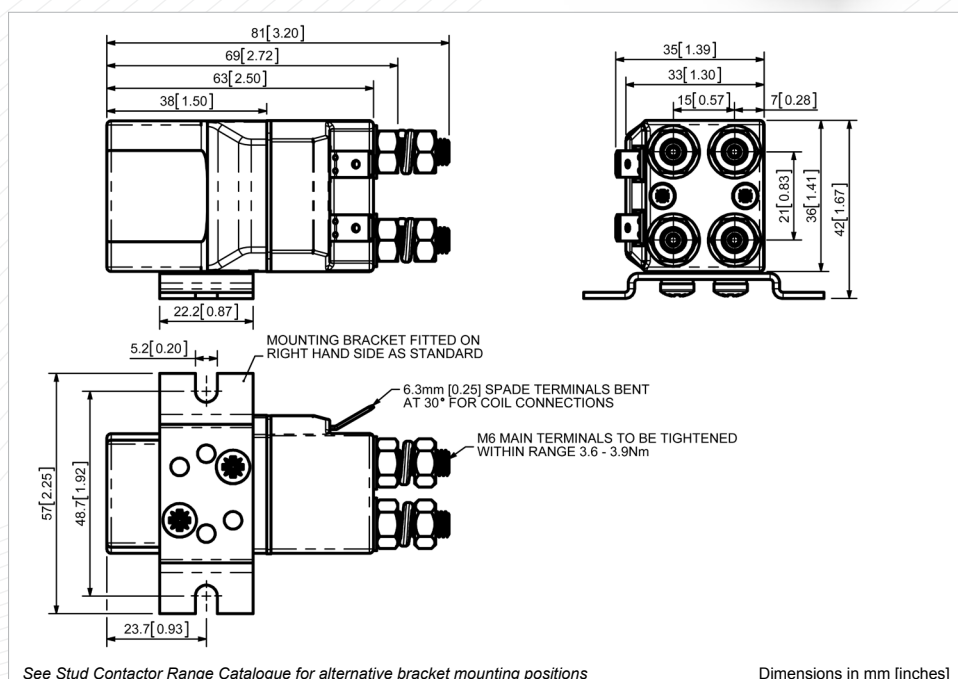
Without Suppression	▲	6ms
With Diode Suppression	▲	35ms
With Diode and Resistor (Subject to resistance value)	▲	8 - 20ms
Typical Contact Bounce Period	▲	3ms
Operating Ambient Temperature	▲	- 40°C to + 60°C
Guideline Contactor Weight:		
SW68P	▲	225 gms

Advised Connection Sizes for Maximum Continuous Current		
Copper busbar	▲	52mm <sup>2</sup> [0.081inch <sup>2</sup> ]
Cable	▲	Rated suitable for Application

Key: ▲ = Interrupted ▲ = Uninterrupted
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Note: Where applicable values shown are at 20° C
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* Please check our web site for product UL status
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SW68P Available Options		
General	Suffix	
Auxiliary Contacts	X	
Auxiliary Contacts - V4	X	
Magnetic Blowouts†	X	
Magnetic Blowouts - High Powered†	X	
Armature Cap	X	
Mounting Brackets (See Stud Range Catalogue)	●	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing	●	
Environmentally Protected IP66	●	P
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	X	
Textured Tips	X	
Silver Plating	X	
Coil		
AC Rectifier Board (Fitted)	X	
Coil Suppression†	○	
Flying Leads	X	
Manual Override Operation	X	
M4 Stud Terminals	○	
M5 Terminal Board	X	
Vacuum Impregnation	X	
Key: Optional ○ Standard ● Not Available X		
† Connections become polarity sensitive		