

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 Красноярск (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 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 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 SW85P has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW85P is suitable for switching Resistive, Capacitive and Inductive loads.

- **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).

Application	Interrupted	Uninterrupted
Thermal Current Rating (I_{th})	▲	100A
Intermittent Current Rating:		
30% Duty	▲	185A
40% Duty	▲	160A
50% Duty	▲	140A
60% Duty	▲	130A
70% Duty	▲	120A
Rated Fault Current Breaking Capacity (I_{cn}) 5ms Time Constant: (in accordance with UL583*)		
SW85P	▲	800A at 48V
Rated Fault Current Breaking Capacity (I_{cn}) Resistive Load: (in accordance with UL508*)		
SW85P	▲	150A at 48V D.C.
Maximum Recommended Contact Voltages (U_e):		
SW85P	▲	48V D.C.
Typical Voltage Drop per pole across New Contacts at 100A	▲	50mV
Mechanical M.T.B.F	▲	>5 x 10 ⁶
Coil Voltage Available (U_c) (Rectifier board required for A.C.)	▲	From 6 to 240V D.C.
Coil Power Dissipation:		
Highly Intermittent Rated Types	▲	20 - 30 Watts
Intermittently Rated types	▲	15 - 20 Watts
Prolonged Rated Types	▲	13 - 15 Watts
Continuously Rated Types	▲	7 - 13 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)	▲	60% U_s
Continuously Rated Types (100% Duty Cycle)	▲	66% U_s
Drop-Out Voltage Range	▲	10 - 25% U_s
Typical Pull-In Time	▲	20ms
Typical Drop-Out Time (N/O Contacts to Open):		
Without Suppression	▲	5ms
With Diode Suppression	▲	50ms
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:		
SW85P	▲	395 gms

Advised Connection Sizes for Maximum Continuous Current	
Copper busbar	80mm ² [0.124inch ²]
Cable	Rated suitable for Application

Key: ▲ = Interrupted ▲ = Uninterrupted

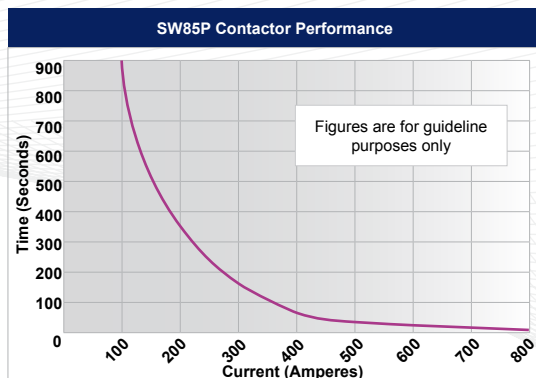
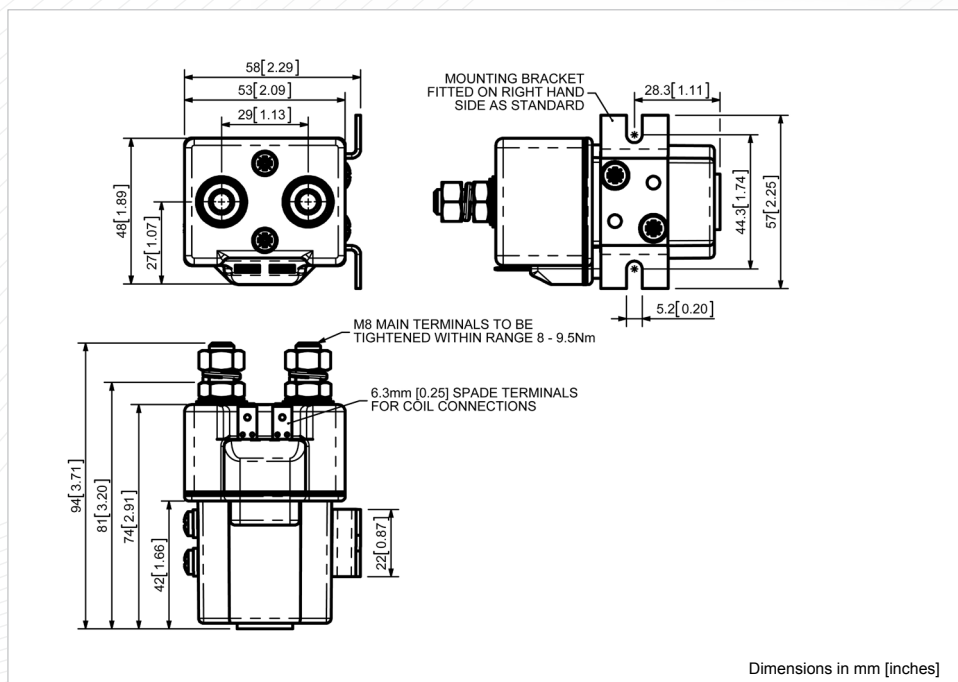
Note: Where applicable values shown are at 20°C

* Please check our web site for product UL status

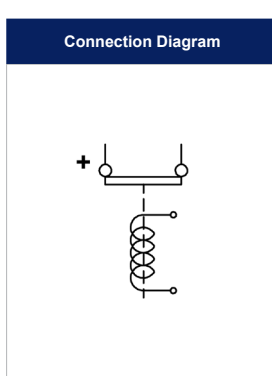
The SW85P features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW85P features an enclosed top cover and offers environmental protection to IP66. The SW85P has M8 stud main terminals and 6.3mm spade coil connections. Mounted using supplied brackets, mounting can be horizontal or vertical, when vertical the M8 contact studs should point downwards. If the requirement is for upwards orientation we can adjust the contactor to compensate for this. Please note normally closed contacts are not designed to make and break load.



SW85P



Contact Performance Key:
 — Interrupted and Uninterrupted Current



SW85P Available Options		
General		Suffix
Auxiliary Contacts	X	
Auxiliary Contacts - V3	X	
Magnetic Blowouts†	X	
Magnetic Blowouts - High Powered†	X	
Armature Cap	X	
Mounting Brackets (See Stud Range Catalogue)	●	
Magnetic Latching† (Not fail safe)	X	
Closed Contact Housing	●	
Environmentally Protected IP66	●	P
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	○	L
Textured Tips	○	T
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	○	

Key: Optional ○ Standard ● Not Available X
 † Connections become polarity sensitive