

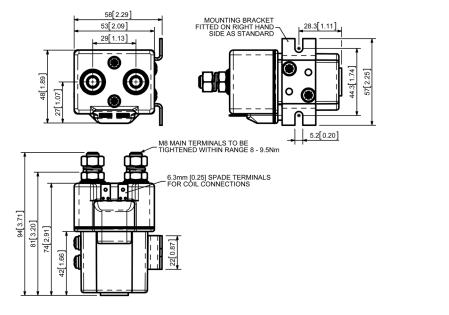
The SW85P has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW85P is suitable for switching Resistive, Capacitive and Inductive loads.

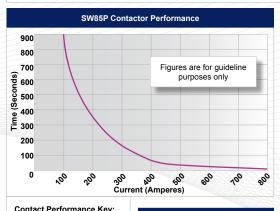
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

Uninterrupted current -	no or infrequent load sw
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 Capac (in accordance with UL583*)	tity (^I cn) 5ms Time Constant:
SW85P	800A at 48V
Rated Fault Current Breaking Capac (in accordance with UL508*)	tity (^I cn) Resistive Load:
SW85P	150A at 48V D.C.
Maximum Recommended Contact V	oltages (U _e):
SW85P	48V D.C.
Typical Voltage Drop per pole across New Contacts at 100A	50mV
Mechanical Durability	>5 x 10 ⁶ Cycles
Coil Voltage Available (U _S) (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 Contact	s 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 Max	kimum Continuous Current
Copper busbar	80mm² [0.124inch²]
Cable	Rated suitable for Application

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.







Contact Performance Key:

— Interrupted and
Uninterrupted
Current

— Harmonic Connection Diagram

- Harmonic Connection Diagram

- Harmonic Connection Diagram

- Harmonic Connection Diagram

- Harmonic Connection Diagram

· ·		
General		Suffix
Auxiliary Contacts	Х	
Auxiliary Contacts - V3	Χ	
Magnetic Blowouts [†]	X	
Magnetic Blowouts - High Powered†	Χ	
Armature Cap	Χ	
Mounting Brackets (See Stud Range Catalogue)	•	
Magnetic Latching [†] (Not fail safe)	X	
Closed Contact Housing	•	
Environmentally Protected IP66	•	Р
EE Type (Steel Shroud)	Χ	
Contacts		
Large Tips	0	L
Textured Tips	0	Т

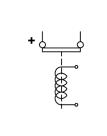
SW85P Available Options

•	Performance data provided should be used as a guide only. Some de-rating or variati	
	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

Note: Where applicable values shown are at 20°C

* Please check our web site for product UL status



AC Rectifier Board (Fitted)	X	
Coil Suppression [†]	0	
Flying Leads	X	
Manual Override Operation	X	
M4 Stud Terminals	0	
M5 Terminal Board	X	
Vacuum Impregnation	0	
Key: Optional ○ Standard • No	ot Availabl	e X
† Connections become polarity sensitive		

Silver Plating