

Application	Interrupted Uninterrupted
Thermal Current Rating ([/] th)	100A
Intermittent Current Rating:	7
30% Duty	185A
40% Duty	160A
50% Duty	140A
60% Duty	130A
70% Duty	120A
Rated Fault Current Breaking Capa (in accordance with UL583*)	city ([/] cn) 5ms Time Constant:
SW85	800A at 48V
SW85B	800A at 80V
Rated Fault Current Breaking Capa (in accordance with UL508*)	• · · · · · · · · · · · · · · · · · · ·
SW85	150A at 48V D.C.
SW85B	150A at 96V D.C.
Maximum Recommended Contact \	/oltages (U _e):
SW85	48V D.C.
SW85B	96V 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
ntermittently 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) Prolonged Operation	60% U _S
(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 Contac	ts 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:	
SW85	360 gms
With Auxiliary	+ 20 gms
With Blowouts	+ 50 gms
Auxiliary	Details
Auxiliary Thermal Current Rating	5A
Auxiliary Contact Switching Capa	bilities (Resistive Load):
SW85A	SW85C
5A at 24\	
2A at 48\	_
0.5A at 240	· · · · · · · · · · · · · · · · · · ·
0.5A at 240 Advised Connection Sizes for Ma	_
Copper busbar	65mm ² [0.1inch ²]
Cable	Rated suitable for Application
Key:	
Note: Where applicable values show	•
* Please check our web site for prod	
	cts are not suited to make and

The SW85 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 SW85 is suitable for switching Resistive, Capacitive and Inductive loads.

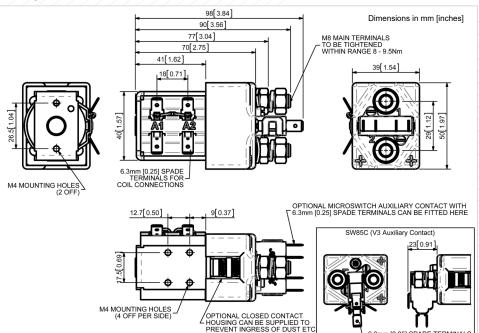
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

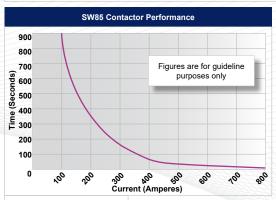
The SW85 features single pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW85 has M8 stud main terminals and 6.3mm spade coil connections. Mounting is via M4 tapped holes or mounting brackets, either supplied fitted, or as separate items. 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 suited to make and break load.

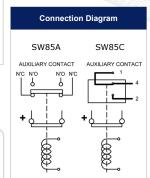


SW85

- 6.3mm [0.25] SPADE TERMINALS







SVV03 Available Options			
General		Suffix	
Auxiliary Contacts	0	Α	
Auxiliary Contacts - V3	0	С	
Magnetic Blowouts†	0	В	
Magnetic Blowouts - High Powered [†]	0	В	
Armature Cap	X		
Mounting Brackets (See Stud Series Catalogue)	0		
Magnetic Latching [†] (Not fail safe)	0	M	
Closed Contact Housing [‡]	0		
Environmentally Protected IP66 (see SW85P Catalogue sheet)	0	Р	
EE Type (Steel Shroud)	0	EE	
Contacts			
Large Tips	0	L	
Textured Tips	0	Т	
Silver Plating	X		
Coil			
AC Rectifier Board (Fitted)	0		
Coil Suppression [†]	0		
Flying Leads	0	F	
Manual Override Operation	X		
M4 Stud Terminals	X		
M5 Terminal Board	0		
Vacuum Impregnation	0		
Key: Optional ○ Standard • Not Available X			
† Connections become polarity sensitive			

[‡] Open Housing Available

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

Contact Performance Key:

Current

Interrupted and Uninterrupted