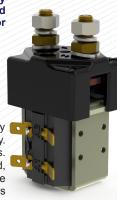


Intermittent Current Rating: 10% Duty 160A 10% Duty 160A 10% Duty 140A 10% Duty 130A 10% Duty 120A 130A 148V 14885 800A at 48V 14885 800A at 80V 150A at 48V D.C. 150A at 48V D.C. 150B BBB 150A at 96V D.C. 150B BBB 150B BB 150B B		
185A 1909 Duty 160A 1909 Duty 160A 1909 Duty 140A 1909 Duty 130A 1909 Duty 130A 1909 Duty 120A 1816d Fault Current Breaking Capacity (¹cn) 5ms Time Constant: In accordance with UL583**) 18085 800A at 48V 18085B 800A at 80V 1816d Fault Current Breaking Capacity (¹cn) Resistive Load: In accordance with UL508**) 18085 150A at 48V D.C. 18085B 150A at 96V D.C. 18085B 96V D.C. 18095B 9	Thermal Current Rating (Ith)	100A
0% Duty 160A 0% Duty 140A 0% Duty 130A 0% Duty 130A 0% Duty 120A tated Fault Current Breaking Capacity (¹cn) 5ms Time Constant: in accordance with UL583*) 800A at 48V 8085B 800A at 48V 8085B 800A at 48V D.C. 150A at 48V D.C. 150W85B 150A at 48V D.C. 150W85B 150A at 48V D.C. 150W85B 150A at 96V D.C. 160A 160A 160A 170B 180B 180A 180V 180B 1800A at 48V 180B 1800A at 80V 180B 180D 180D 180D 180D 180D 180D 180D 180D	ntermittent Current Rating:	
140A 150% Duty 150% Duty 150A 150A 150A at 48V 150A at	30% Duty	185A
130A 0% Duty 120A 120A 120A 120A 120A 120A 120A 120A	10% Duty	160A
tated Fault Current Breaking Capacity (In) 5ms Time Constant: in accordance with UL583*) 800A at 48V 8085B 800A at 80V 8085B 800A at 80V 8085B 800A at 80V 8085B 800A at 80V 8085B 150A at 96V D.C. 8085B 150A at 96V D.C. 8085B 96V D.C. 9000V 90	50% Duty	140A
Rated Fault Current Breaking Capacity (Icn) 5ms Time Constant: in accordance with UL583*) 800A at 48V 8085B 800A at 80V Rated Fault Current Breaking Capacity (Icn) Resistive Load: in accordance with UL508*) 8085B 150A at 48V D.C. 8085B 150A at 96V D.C. 80885B 150A at 96V D.C. 80885B 800A at 48V D.C. 8080A ta 80V 80V D.C. 80885B 800A at 48V D.C. 8080A ta 80V 80V D.C. 80W	60% Duty	130A
### State Contacts with UL583*) ### State Contacts at 100A ### State Contact Contacts at 100A ### State Contact Contact Contacts at 100A ### State Contact	70% Duty	120A
Rectard Fault Current Breaking Capacity (Ion) Resistive Load: In accordance with UL508* I 50A at 48V D.C. Resistive Load: I 50A at 96V D.C. Resistive Loa	Rated Fault Current Breaking Capa (in accordance with UL583*)	city (^I cn) 5ms Time Constant:
tated Fault Current Breaking Capacity (¹cn) Resistive Load: in accordance with UL508*) 150A at 48V D.C. Maximum Recommended Contact Voltages (Ue): M85B	SW85	800A at 48V
150A at 48V D.C. 150A at 96V D.C. Maximum Recommended Contact Voltages (Ue): W85	SW85B	800A at 80V
Aximum Recommended Contact Voltages (Ue): W85	Rated Fault Current Breaking Capa in accordance with UL508*)	city ([/] cn) Resistive Load:
Maximum Recommended Contact Voltages (Ue): 48V D.C. 48V D.C. 48V D.C. 48V D.C. 50W85B 96V D.C. 50mV 6chanical M.T.B.F 55 x 106 From 6 to 240V D.C. 6cil Power Dissipation: 6chanical Rated Types 6chanical Rated Types 6chanical Rated Types 7 - 13 Watts 6chanical Rated Types 60% Us 60% U	SW85	150A at 48V D.C.
48V D.C. 5W85B 96V D.C. Wypical Voltage Drop per pole cross New Contacts at 100A Mechanical M.T.B.F 5oil Voltage Available (U _S) Rectifier board required for A.C.) From 6 to 240V D.C. From	SW85B	150A at 96V D.C.
SW85B 96V D.C. Sypical Voltage Drop per pole cross New Contacts at 100A Mechanical M.T.B.F >5 x 10° From 6 to 240V D.C. Methanical M.T.B.F >5 x 10° From 6 to 240V D.C. From 6	Maximum Recommended Contact \	/oltages (U _e):
Acchanical M.T.B.F Soil Voltage Available (U _S) Rectifier board required for A.C.) From 6 to 240V D.C. From 6	SW85	48V D.C.
Acchanical M.T.B.F Soil Voltage Available (Us) Rectifier board required for A.C.) From 6 to 240V D.C. From 6 to	SW85B	96V D.C.
Professional Voltage Available (Ug) Rectifier board required for A.C.) From 6 to 240V D.C. From 6 to 240V B. From 6 to 240V D.C. From 6 to 240V B. From	Typical Voltage Drop per pole across New Contacts at 100A	50mV
Coil Power Dissipation: Itighly Intermittent Rated Types	Mechanical M.T.B.F	>5 x 10 ⁶
lighly Intermittent Rated Types 20 - 30 Watts Intermittently Rated types 15 - 20 Watts Intermittently Rated Types 13 - 15 Watts Intermittently Rated Types 7 - 13 Watts Intermittently Rated Types Intermittent Rated types Intermittently Rated Types Intermittentl	Coil Voltage Available (U _S) (Rectifier board required for A.C.)	From 6 to 240V D.C.
Intermittently Rated types Intermittently Rated	Coil Power Dissipation:	
Prolonged Rated Types Continuously Rated Types Food and Prolonged Rated Types Food and Pull-In Voltage (Coil at 20° C) Guideline: Idighly Intermittent Rated types Max 25% Duty Cycle) Food and Pull-In Voltage (Coil at 20° C) Guideline: Idighly Intermittently Rated types Max 25% Duty Cycle) Food and Pull-In Rated types Max 70% Duty Cycle) Food and Pull-In Rated Types Food and Pull-In Time Food and Pull-In Time Food and Pull-In Time Food and Pull-In Time Food and Resistor F	Highly Intermittent Rated Types	20 - 30 Watts
Continuously Rated Types 7 - 13 Watts Maximum Pull-In Voltage (Coil at 20° C) Guideline: Itighly Intermittent Rated types Max 25% Duty Cycle) Intermittently Rated types Max 70% Duty Cycle) Intermittently Rated types Max 70% Duty Cycle) Intermittently Rated types Max 90% Us M	ntermittently Rated types	15 - 20 Watts
Asximum Pull-In Voltage (Coil at 20° C) Guideline: Idighly Intermittent Rated types Max 25% Duty Cycle) Intermittently Rated types Max 70% Duty Cycle) Intermittently Rated types Max 70% Duty Cycle) Intermittently Rated types Max 70% Duty Cycle) Intermittently Rated types Max 90% Duty Cycle) Intermittently Rated types Max 90% Duty Cycle) Intermittently Rated types Max 90% Us Max 90% Us Max 90% Duty Cycle) Intermittently Rated types Max 90% Us Max 90%	Prolonged Rated Types	13 - 15 Watts
dighly Intermittent Rated types Max 25% Duty Cycle) thermittently Rated types Max 70% Duty Cycle) forlonged Operation Max 90% Duty Cycle) continuously Rated Types 100% Duty Cycle) forp-Out Voltage Range 10 - 25% U _S fypical Pull-In Time 20ms fypical Prop-Out Time (N/O Contacts to Open): Without Suppression forms With Diode Suppression forms With Diode and Resistor Subject to resistance value) fypical Contact Bounce Period graphical Contactor Weight: SW85 360 gms With Auxiliary 4 20 gms With Blowouts 60% U _S	Continuously Rated Types	7 - 13 Watts
dighly Intermittent Rated types Max 25% Duty Cycle) thermittently Rated types Max 70% Duty Cycle) forlonged Operation Max 90% Duty Cycle) continuously Rated Types 100% Duty Cycle) forp-Out Voltage Range 10 - 25% U _S fypical Pull-In Time 20ms fypical Prop-Out Time (N/O Contacts to Open): Without Suppression forms With Diode Suppression forms With Diode and Resistor Subject to resistance value) fypical Contact Bounce Period graphical Contactor Weight: SW85 360 gms With Auxiliary 4 20 gms With Blowouts 60% U _S	Maximum Pull-In Voltage (Coil at 20	0° C) Guideline:
Max 70% Duty Cycle) Prolonged Operation Max 90% Duty Cycle) Continuously Rated Types Proportion of the properties of t	Highly Intermittent Rated types Max 25% Duty Cycle)	
Max 90% Duty Cycle) Continuously Rated Types 100% Duty Cycle) Corpo-Out Voltage Range 10 - 25% Us Cypical Pull-In Time 20ms Cypical Drop-Out Time (N/O Contacts to Open): Vithout Suppression 50ms Vith Diode Suppression 50ms Vith Diode and Resistor Subject to resistance value) Cypical Contact Bounce Period 3ms Operating Ambient Temperature 40°C to + 60°C Suideline Contactor Weight: SW85 360 gms Vith Auxiliary 420 gms Vith Blowouts 46% Us 20ms 20ms 20ms 20ms 20ms 20ms 20ms 20m	ntermittently Rated types Max 70% Duty Cycle)	60% U _S
100% Duty Cycle) 100% Duty Cycle) 10 - 25% U _S 20ms 20m	Prolonged Operation Max 90% Duty Cycle)	60% U _S
ypical Pull-In Time 20ms ypical Drop-Out Time (N/O Contacts to Open): Without Suppression 5ms With Diode Suppression 50ms With Diode and Resistor Subject to resistance value) 3ms Operating Ambient Temperature -40°C to +60°C Suideline Contactor Weight: SW85 360 gms With Auxiliary +20 gms With Blowouts +50 gms	100% Duty Cycle)	
Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode Suppression With Diode and Resistor Subject to resistance value) Suppression Suppression 8 - 20ms 40 - 20ms Suppression Suppression 8 - 20ms 40 - 20ms Suppression 3ms Superating Ambient Temperature - 40 C to + 60 C Suideline Contactor Weight: SW85 360 gms With Auxiliary + 20 gms With Blowouts + 50 gms		
5ms 50ms 5	•	
Vith Diode Suppression 50ms Vith Diode and Resistor 8 - 20ms Vith Diode and Resistor 8 - 20ms Vith Diode and Resistor 8 - 20ms Vith Contact Bounce Period 3ms Vith Contact Bounce Period -40°C to +60°C Vith Suddeline Contactor Weight: Vith Auxiliary +20 gms Vith Blowouts +50 gms Vith Diode Suppression 50ms Vith Diode Sup		ts to Open):
Vith Diode and Resistor Subject to resistance value) Supject Contact Bounce Period Operating Ambient Temperature Suideline Contactor Weight: SW85 360 gms Vith Auxiliary + 20 gms Vith Blowouts + 50 gms	Nithout Suppression	
Subject to resistance value) Sypical Contact Bounce Period Superating Ambient Temperature Guideline Contactor Weight: SW85 With Auxiliary With Blowouts S - 2011S 3ms - 40°C to + 60°C 3ms - 40°C to + 60°C 40°C to + 60°C 500 gms + 20 gms + 50 gms	With Diode Suppression	50ms
Deperating Ambient Temperature - 40°C to + 60°C Guideline Contactor Weight: SW85 360 gms Vith Auxiliary + 20 gms Vith Blowouts + 50 gms	Nith Diode and Resistor (Subject to resistance value)	8 - 20ms
With Auxiliary + 20 gms With Blowouts + 50 gms	Typical Contact Bounce Period	
SW85 360 gms Vith Auxiliary + 20 gms Vith Blowouts + 50 gms	Operating Ambient Temperature	- 40°C to + 60°C
Vith Auxiliary + 20 gms Vith Blowouts + 50 gms	Guideline Contactor Weight:	
Vith Blowouts + 50 gms	SW85	360 gms
	With Auxiliary	+ 20 gms
	With Blowouts	+ 50 gms
	Guideline Contactor Weight: SW85 With Auxiliary With Blowouts	+ 20 gms + 50 gms
auxiliary Thermal Current Rating 5A		
auxiliary Contact Switching Capabilities (Resistive Load):	SW85A	SW85C
auxiliary Contact Switching Capabilities (Resistive Load):	5A at 24\	/ D.C.
auxiliary Contact Switching Capabilities (Resistive Load):	2A at 48\	√ D.C.
Auxiliary Contact Switching Capabilities (Resistive Load): SW85A SW85C	0.5A at 24	0V D.C.
Auxiliary Contact Switching Capabilities (Resistive Load): SW85A SW85C 5A at 24V D.C.		
SW85A SW85C 5A at 24V D.C. 2A at 48V D.C. 0.5A at 240V D.C.		
SW85A SW85C 5A at 24V D.C. 2A at 48V D.C. 0.5A at 240V D.C. ddvised Connection Sizes for Maximum Continuous Current		COII [O. 12-HIIOII]
SW85A SW85C 5A at 24V D.C. 2A at 48V D.C. 0.5A at 240V D.C. dvised Connection Sizes for Maximum Continuous Current 80mm² [0.124inch²]		Rated suitable for Application
SW85A SW85C 5A at 24V D.C. 2A at 48V D.C. 0.5A at 240V D.C. dvised Connection Sizes for Maximum Continuous Current 80mm² [0.124inch²]	Cable	

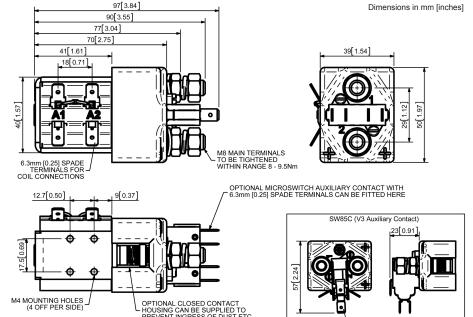
The SW85 has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW85 is suitable for switching Resistive, Capacitive and Inductive loads.

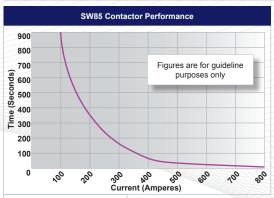
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

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 designed to make and break load.



SW85





SW85 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	Χ		
Coil			
AC Rectifier Board (Fitted)	0		
Coil Suppression [†]	0		
Flying Leads	0	F	
Manual Override Operation	X		
M4 Stud Terminals	Χ		
M5 Terminal Board	0		
Vacuum Impregnation	0		
Key: Optional ○ Standard • N	lot Availa	ble X	
† Connections become polarity sensitive			

- † Connections become polarity sensitive
- † Open Housing Available

Contact Performance Key:

Current

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

Thermal current ratings stated are dependant upon the size of conductor being used For further technical advice email: technical@albrightinternational.com

from figures may be necessary according to application.

Albright reserve the right to change data without prior notice

Interrupted and Uninterrupted