

The SW82 type of contactors has been designed for direct current loads, including motors as used on electric vehicles such as industrial trucks. Developed for both interrupted and uninterrupted loads, the SW82 is suitable for switching Resistive, Capacitive and Inductive loads.

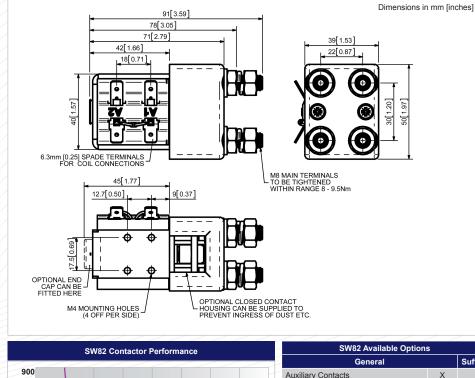
Resistive, Capacitive and	I Inductive loads.		
Application	Interrupted Uninterrupted		
Thermal Current Rating (¹ th)	100A		
Intermittent Current Rating:			
30% Duty	185A		
40% Duty	160A		
50% Duty	140A		
60% Duty	130A		
70% Duty	120A		
Rated Fault Current Breaking Capacity (^I cn) 5ms Time Constant: (<i>in accordance with UL583</i> *)			
SW82	800A at 80V		
Rated Fault Current Breaking Capa (in accordance with UL508*)			
SW82	150A at 96V D.C.		
Maximum Recommended Contact	, in the second		
SW82	96V 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 _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 2	0° 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 Conta	cts 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:			
SW82	430 gms		
Advised Connection Sizes for Maximum Continuous Current			
Copper busbar	80mm ² [0.124inch ²]		
Cable Rated suitable for Application			
Key: F = Interrupted A = Uninterrupted			
Note: Where applicable values she	own are at 20°C		
* Please check our web site for product UL status			

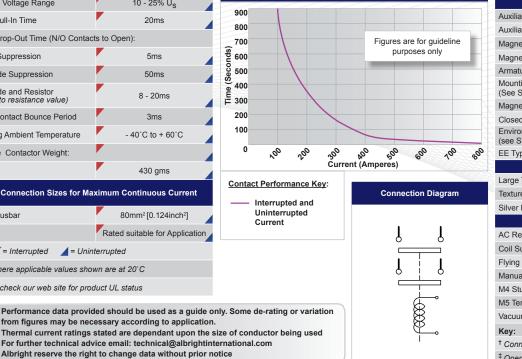
- Interrupted current opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current no or infrequent load switching requirements (maintains a lower contact resistance).

The SW82 features double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The contactors are compact in size and are fully serviceable with a full range of spare parts available. The SW82 has M8 stud main terminals and 6.3mm spade coil connections. It can be mounted 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 upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this.



SW82





General Suffix Auxiliary Contacts X Auxiliary Contacts - V3 X Magnetic Blowouts [†] X Magnetic Blowouts - High Powered [†] X Armature Cap ○ Mounting Brackets (See Stud Series Catalogue) ○ Magnetic Latching [†] (Not fail safe) ○ Closed Contact Housing [‡] ○ Environmentally Protected IP66 (see SW82P Catalogue sheet) ○ E Type (Steel Shroud) X Earge Tips ○ Large Tips ○ Sliver Plating X AC Rectifier Board (Fitted) ○ Coil Suppression [†] ○ Flying Leads ○ Manual Override Operation ○ Mature Timpal Board ○ Vacuum Impregnation ○ Key: Optional ○ Standard ● Not Availt/Jet X	SW82 Available Options			
Auxillary Contacts - V3 X Magnetic Blowouts [†] X Magnetic Blowouts - High Powered [†] X Armature Cap O Mounting Brackets (See Stud Series Catalogue) O Magnetic Latching [†] (Not fail safe) O Closed Contact Housing [‡] O Environmentally Protected IP66 (see SW82P Catalogue sheet) O EE Type (Steel Shroud) X Contacts O Large Tips O Textured Tips O Silver Plating X Coil O AC Rectifier Board (Fitted) O Coil Suppression [†] O Flying Leads O Manual Override Operation O M4 Stud Terminals X M5 Terminal Board O Vacuum Impregnation O Key: Optional © Standard • Not Availte X * Connections become polarity sensitive	General		Suffix	
Magnetic Blowouts* X Magnetic Blowouts - High Powered* X Armature Cap O Mounting Brackets (See Stud Series Catalogue) O Magnetic Latching* (Not fail safe) O Closed Contact Housing* O Environmentally Protected IP66 (see SW82P Catalogue sheet) O ET type (Steel Shroud) X Earge Tips O Iarge Tips O Coil V AC Rectifier Board (Fitted) O Coil Suppression* O Flying Leads O Manual Override Operation O Manual Override Standard O Vacuum Impregnation O Key: Optional O Standard • Not Availuble X	Auxiliary Contacts	Х		
Magnetic Blowouts - High Powered [†] X Magnetic Blowouts - High Powered [†] X Armature Cap O Mounting Brackets (See Stud Series Catalogue) O Magnetic Latching [†] (Not fail safe) O Closed Contact Housing [‡] O Environmentally Protected IP66 (see SW82P Catalogue sheet) O ET type (Steel Shroud) X Contacts Large Tips O Textured Tips O Coil Coil AC Rectifier Board (Fitted) O Coil Suppression [†] O Flying Leads O M4 Stud Terminals X M5 Terminal Board O Vacuum Impregnation O Key: Optional O Standard Not Available X	Auxiliary Contacts - V3	Х		
Armature Cap A Armature Cap A Mounting Brackets (See Stud Series Catalogue) A Magnetic Latching [†] (Not fail safe) A Closed Contact Housing [‡] A Environmentally Protected IP66 (see SW82P Catalogue sheet) P EE Type (Steel Shroud) X Large Tips O Textured Tips O Coil X Coil X Coil Suppression [†] O Flying Leads O M3 Stud Terminals X M5 Terminal Board O Vacuum Impregnation O Key: Optional O Standard Not Available X	Magnetic Blowouts [†]	Х		
Mounting Brackets (See Stud Series Catalogue) Image: Stud Series Catalogue Series Catalogue Sheet) Image: Stud Series Catalogue Stud Series Catalogue Sheet) Image:	Magnetic Blowouts - High Powered [†]	Х		
(See Stud Series Catalogue) 0 Magnetic Latching [†] (Not fail safe) 0 M Closed Contact Housing [‡] 0 P Environmentally Protected IP66 (see SW82P Catalogue sheet) 0 P EType (Steel Shroud) X V Contacts 0 Contacts 1 Contacts 1 Contacts 1 Contacts 0 1 Manual Override Operation 0 1 Contacts 2 1 Manual Override Operation 0 1 Manual Override Operation <td>Armature Cap</td> <td>0</td> <td></td>	Armature Cap	0		
Closed Contact Housing [‡] ○ Environmentally Protected IP66 (see SW82P Catalogue sheet) ○ P EE Type (Steel Shroud) X X Contacts Image Tips ○ L Large Tips ○ T Silver Plating X Coil X Coil Coil Image Tips ○ T Silver Plating X X T Silver Plating X T AC Rectifier Board (Fitted) ○ C F Silving Leads ○ F Manual Override Operation ○ F Silving Leads ○ F M4 Stud Terminals X M5 Terminal Board ○ Image T Silving T Vacuum Impregnation ○ Standard Not Available X T Key: Optional ○ Standard Not Available X T		0		
Environmentally Protected IP66 (see SW82P Catalogue sheet) EE Type (Steel Shroud) X Contacts Large Tips Textured Tips T Silver Plating X Coil X AC Rectifier Board (Fitted) Coil Suppression [†] Flying Leads Manual Override Operation M5 Terminal Board Vacuum Impregnation Key: Optional Standard * Connections become polarity sensitiv X	Magnetic Latching [†] (Not fail safe)	0	М	
(see SW82P Catalogue sheet) ○ P EE Type (Steel Shroud) X Contacts 0 Large Tips ○ T Silver Plating X V Coil X V AC Rectifier Board (Fitted) ○ F Solution Coil ○ F Manual Override Operation ○ F Manual Override Operation ○ F Vacuum Impregnation ○ F Key: Optional ○ Standard ● Not Available X * Connections become polarity sensitive X	Closed Contact Housing [‡]	0		
Contacts Image: Contacts Large Tips 0 L Textured Tips 0 T Silver Plating X T Coil X Coil M AC Rectifier Board (Fitted) 0 Coil Suppression [†] 0 T Flying Leads 0 F Manual Override Operation 0 T M4 Stud Terminals X T M5 Terminal Board 0 Vacuum Impregnation wacuum Impregnation 0 T Key: Optional © Standard ● Not Available X * Connections become polarity sensitive		0	Ρ	
Large Tips O L Textured Tips O T Silver Plating X X Coil Coil O AC Rectifier Board (Fitted) O X Coil Suppression [†] O Y Flying Leads O F Manual Override Operation O Y M4 Stud Terminals X Y Vacuum Impregnation O Y Key: Optional O Standard O Nut-Availute X Y * Connections become polarity sensitive X	EE Type (Steel Shroud)	Х		
Textured Tips O T Silver Plating X X Coil X X AC Rectifier Board (Fitted) O C Coil Suppression [†] O F Nanual Override Operation O F M4 Stud Terminals X X M5 Terminal Board O Vacuum Impregnation Vacuum Impregnation O Key: Optional O Standard Not Available X * Connections become polarity sensitive X	Contacts			
Silver Plating X Coil V AC Rectifier Board (Fitted) 0 Coil Suppression [†] 0 Flying Leads 0 Manual Override Operation 0 M4 Stud Terminals X M5 Terminal Board 0 Vacuum Impregnation 0 Key: Optional © Standard ● Not Availuate X [†] Connections become polarity sensitive	Large Tips	0	L	
Coil Coil AC Rectifier Board (Fitted) 0 Coil Suppression [†] 0 Flying Leads 0 Manual Override Operation 0 M4 Stud Terminals X M5 Terminal Board 0 Vacuum Impregnation 0 Key: Optional O Standard Not Available X [†] Connections become polarity sensitive	Textured Tips	0	Т	
AC Rectifier Board (Fitted) o Coil Suppression [†] o Flying Leads o Manual Override Operation o M4 Stud Terminals X M5 Terminal Board o Vacuum Impregnation o Key: Optional O Standard Not Available X [†] Connections become polarity sensitive	Silver Plating	Х		
Coil Suppression [†] O Flying Leads O Flying Leads O Manual Override Operation O M4 Stud Terminals X M5 Terminal Board O Vacuum Impregnation O Key: Optional O Standard Not Available X [†] Connections become polarity sensitive	Coil			
Flying Leads O F Manual Override Operation O Image: Constraint of the second of the sec	AC Rectifier Board (Fitted)	0		
Manual Override Operation O M4 Stud Terminals X M5 Terminal Board O Vacuum Impregnation O Key: Optional O Standard Not Available X † Connections become polarity sensitive	Coil Suppression [†]	0		
M4 Stud Terminals X M5 Terminal Board O Vacuum Impregnation O Key: Optional O Standard Not Available X † Connections become polarity sensitive	Flying Leads	0	F	
M5 Terminal Board O Vacuum Impregnation O Key: Optional O Standard Not Available X † Connections become polarity sensitive	Manual Override Operation	0		
Vacuum Impregnation 0 Key: Optional O Standard Not Available X † Connections become polarity sensitive	M4 Stud Terminals	Х		
Key: Optional Standard Not Available X [†] Connections become polarity sensitive	M5 Terminal Board	0		
[†] Connections become polarity sensitive	Vacuum Impregnation	0		
	Key: Optional O Standard • Not Available X			
+	[†] Connections become polarity sensitive			
[‡] Open Housing Available				

SW82