Albright International

250A/400A

SW200 Single Pole Single Throw Normally Open
(Part of the SW200 Series)

Application	Interrupted	Uninterrupted
Thermal Current Rating (I^th)	250A	400A
Intermittent Current Rating:		
30% Duty	455A	730A
40% Duty	395A	630A
50% Duty	355A	565A
60% Duty	325A	515A
70% Duty	300A	480A
Rated Fault Current Breaking Capacity (I^tcn) 5ms Time Constant: *(in accordance with UL583*)*		
SW200	1500A at 96V	
SW200N	1500A at 48V	
Rated Fault Current Breaking Capacity (Icn) Resistive Load: *(In accordance with UL508*)*		
SW200	600A at 96V D.C.	
SW200N	600A at 60V D.C.	
Maximum Recommended Contact Voltages (U_e):		
SW200	96V D.C.	
SW200N	48V D.C.	60V D.C.
Typical Voltage Drop per pole across New Contacts at 250A:	40mV	
Mechanical Durability	>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	60 - 80 Watts	
Intermittently Rated types	30 - 60 Watts	
Prolonged Rated Types	21 - 30 Watts	
Continuously Rated Types	13 - 21 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 - 20% U_s	
Typical Pull-In Time (N/O Contacts to Close):	40ms	
Typical Drop-Out Time (N/O Contacts to Open):		
Without Suppression	10ms	
With Diode Suppression	100ms	
With Diode and Resistor *(Subject to resistance value)*	30ms	
Typical Contact Bounce Period	3ms	
Operating Ambient Temperature	- 40˚C to + 60˚C	
Guideline Contactor Weight:		
SW200	1350 gms	
With Auxiliary	+ 20 gms	
With Blowouts	+ 50 gms	

Auxiliary Details	
Auxiliary Thermal Current Rating	5A

Auxiliary Contact Switching Capabilities (Resistive Load):	
SW200A	SW200C
5A at 24V D.C.	
2A at 48V D.C.	
0.5A at 240V D.C.	

Advised Connection Sizes for Maximum Continuous Current	
Copper busbar	260mm² [0.40inch²]
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*

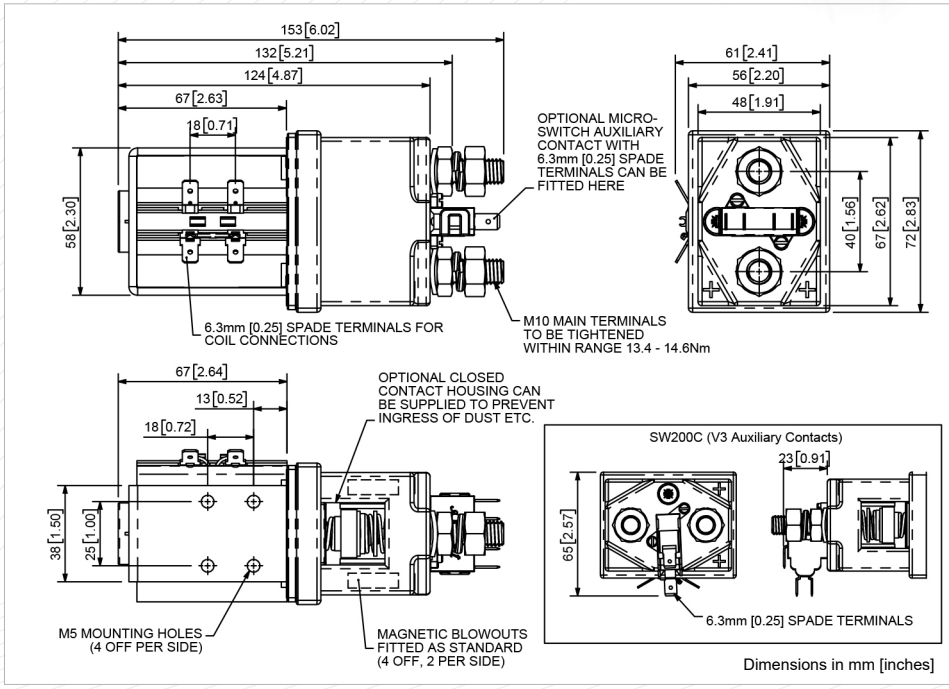
- **Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.**
- **Thermal current ratings stated are dependant upon the size of conductor being used**
- **For further technical advice email: technical@albrightinternational.com**
- **Albright reserve the right to change data without prior notice**

The SW200 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 SW200 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).

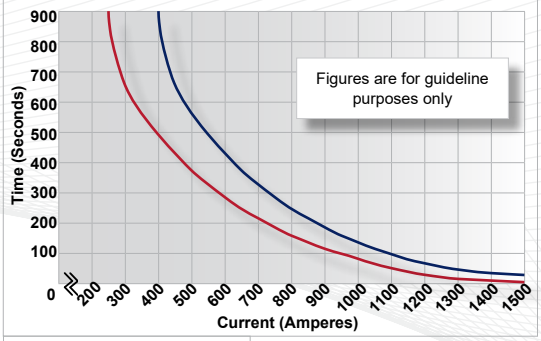
The SW200 features single pole single throw, double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW200 has M10 stud main terminals and 6.3mm spade coil connections. It can be mounted via M5 tapped holes or mounting brackets – either supplied fitted, or as separate items. Mounting can be horizontal or vertical, when vertical the M10 contact studs should point upwards. If the requirement is for downwards orientation we can adjust the contactor to compensate for this.

SW200



Dimensions in mm [inches]

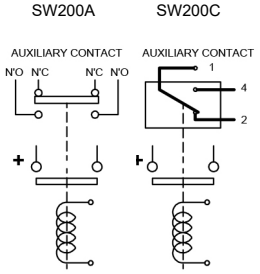
SW200 Contactor Performance



Contact Performance Key:

- Interrupted Current
- Uninterrupted Current

Connection Diagram



SW200 Available Options

General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V3	○	C
Magnetic Blowouts†	●	
Magnetic Blowouts - High Powered†	○	
Armature Cap	●	
Mounting Brackets (See Stud Series Catalogue)	○	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing‡	○	
Environmentally Protected IP66	X	
EE Type (Steel Shroud)	○	EE
Contacts		
Large Tips	X	
Textured Tips	○	T
Silver Plating	X	
Coil		
AC Rectifier Board (Fitted)	○	
Coil Suppression†	○	
Flying Leads	○	F
Manual Override Operation	○	
M4 Stud Terminals	X	
M5 Terminal Board	○	
Vacuum Impregnation	○	

Key: Optional ○ Standard ● Not Available X

† *Connections become polarity sensitive*

‡ *Open Housing Available*

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