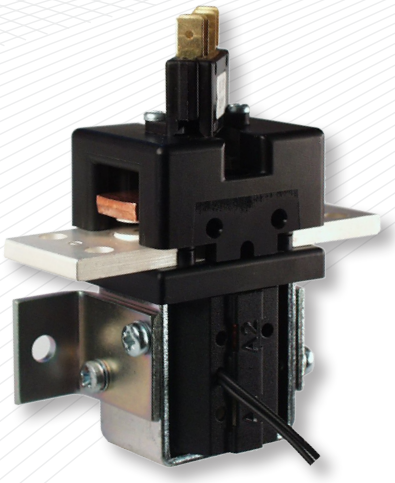
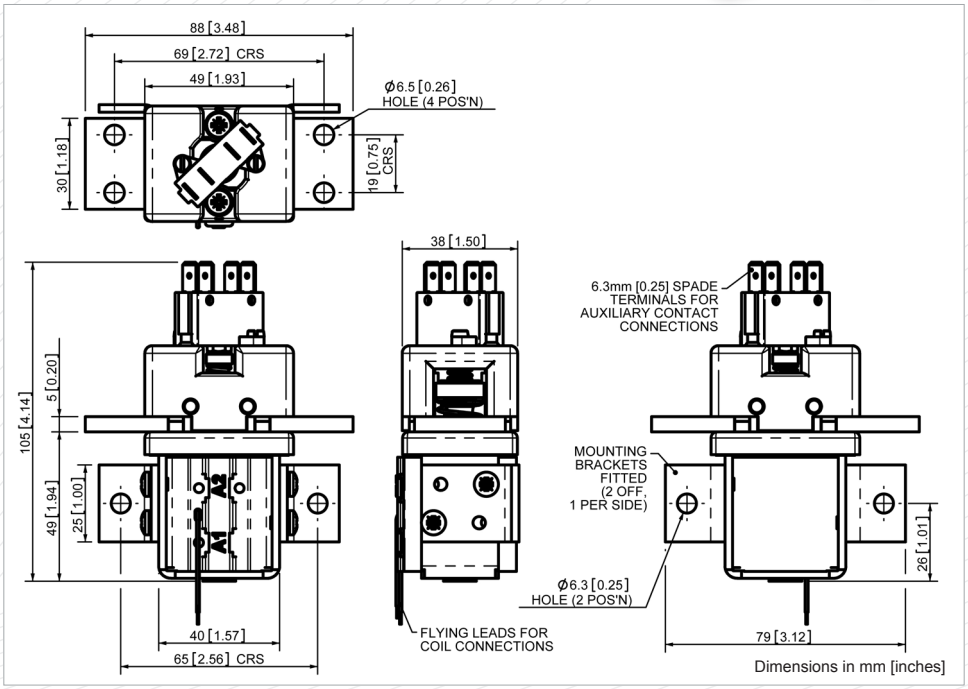
The SW225 has been specifically designed to be installed within the confines of a Power Distribution System 1U rack. This compact busbar mounted contactor follows the recognised design of the SW250 series of contactors and is devised for uninterrupted loads. They are primarily for use with direct current loads but can be used for alternating current loads.

- Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

The SW225 features single pole double breaking main contacts with silver alloy tips which are weld resistant, hard wearing and have excellent conductivity. Mounting can either be horizontal or vertical. The SW225 is easy to install, with "L" Shape Mounting bracket kits fitted as a standard option, or alternatively the M4 tapped holes in the switch frame can be used. To suit the limitations of space of a 1U rack, the coil connections are supplied as flying leads.

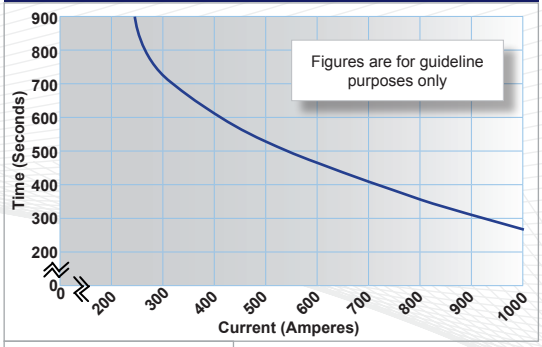


Application	Uninterrupted
Thermal Current Rating ($I^{}th$)	225A
Intermittent Current Rating:	
30% Duty	410A
40% Duty	355A
50% Duty	320A
60% Duty	290A
70% Duty	270A
Rated Fault Current Breaking Capacity ($I^{}cn$) Resistive Load*:	
SW225	330A at 60V D.C.
Maximum Recommended Contact Voltages (U_e):	
SW225	60V D.C.
Typical Voltage Drop per pole across New Contacts at 100A	40mV
Mechanical M.T.B.F	>1 x 10^6
Coil Voltage Available (U_s)	From 6 to 240V D.C.
Coil Power Dissipation:	
Intermittently Rated types	15 - 20 Watts
Continuously Rated Types	7 - 13 Watts
Maximum Pull-In Voltage (Coil at 20˚ C) Guideline:	
Intermittently Rated types (Max 70% Duty Cycle)	60% U_s
Continuously Rated Types (100% Duty Cycle)	66% U_s
Drop-Out Voltage Range	10 - 25%
Typical Pull-In Time	15ms
Typical Drop-Out Time (N/O Contacts to Open):	
Without Suppression	5ms
With Diode Suppression	50ms
With Diode and Resistor *(subject to resistance value)*	8 - 20ms
Typical Contact Bounce Period	< 5ms
Operating Ambient Temperature	- 40˚C to + 60˚C
Guideline Contactor Weight:	
SW225	500 gms
With Auxiliary	+ 20 gms
Auxiliary Details	
Auxiliary Thermal Current Rating	5A
Auxiliary contact switching capacities (Resistive Load):	
	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	145mm² [0.225inch²]
Cable	Rated suitable for Application
Key: ◢ = Uninterrupted	
Note: *Where applicable values shown are at 20˚C*	
** In accordance with UL508*	



Dimensions in mm [inches]

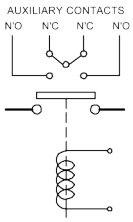
SW225 Contactor Performance



Contact Performance Key:

—— Uninterrupted Current

Connection Diagram



SW225 Available Options	
General	
Auxiliary Contacts (SW225A)	○
Auxiliary Contacts - V3	X
Magnetic Blowouts	X
Magnetic Blowouts - High Powered	X
Armature Cap	X
Mounting Brackets (fitted as standard)	○
Magnetic Latching (Not fail safe)*	○
Closed Contact Housing	X
Environmentally Protected IP66	X
EE Type (Steel Shroud)	X
Contacts	
Large Tips	X
Textured Tips	X
Silver Plating *(fitted as standard)*	○
Coil	
AC Rectifier Board (Fitted)	X
Coil Suppression*	○
Flying Leads	●
Manual Override Operation	○
M4 Stud Terminals	X
M5 Terminal Board	X
Vacuum Impregnation	○
Key: Optional ○ Standard ● Not Available X	
* Connections become polarity sensitive	

- **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**

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