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Единый адрес: ath@nt-rt.ru | <http://albright.nt-rt.ru>

The SW68 is a miniature series double pole double breaking contactor, free standing and compact it is designed to fill the gap between 30 ampere relays and 100 ampere contactors. Devised for both interrupted and uninterrupted loads, the SW68 is suitable for switching Resistive, Capacitive and Inductive loads. Typical applications include switching small traction motors, hydraulic power packs and small electric winch motors.

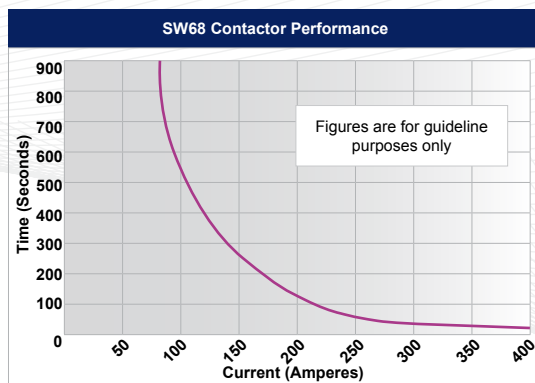
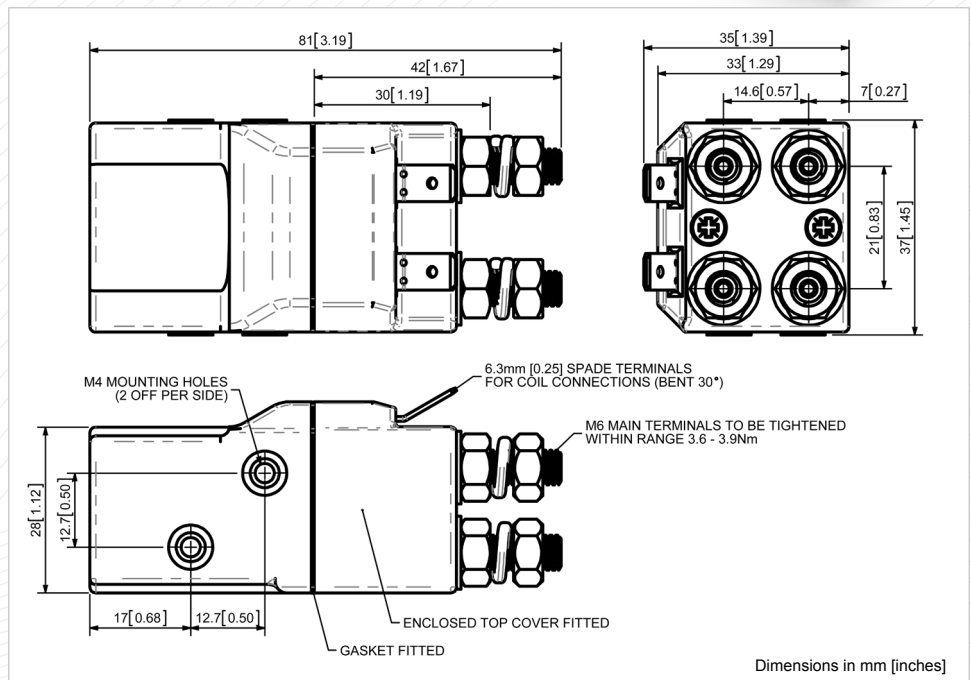
- **Interrupted** current - opening and closing on load with frequent switching (results in increased contact resistance).
- **Uninterrupted** current - no or infrequent load switching requirements (maintains a lower contact resistance).



SW68

Application	Interrupted	Uninterrupted
Thermal Current Rating (I_{th})	▲	80A
Intermittent Current Rating:		
30% Duty	▲	145A
40% Duty	▲	125A
50% Duty	▲	115A
60% Duty	▲	105A
70% Duty	▲	95A
Rated Fault Current Breaking Capacity (I_{cn}) 5ms Time Constant: (in accordance with UL583*)		
SW68	▲	400A at 48V D.C.
Rated Fault Current Breaking Capacity (I_{cn}) Resistive Load: (in accordance with UL508*)		
SW68	▲	120A at 48V D.C.
Maximum Recommended Contact Voltages (U_e): (Both Poles in same circuit)		
SW68	▲	96V D.C. 120V D.C.
Typical Voltage Drop per pole across New Contacts at 80A	▲	<40mV
Mechanical M.T.B.F	▲	>3 x 10 ⁶
Coil Voltage Available (Us)	▲	From 6 to 130V D.C.
Coil Power Dissipation:		
Highly Intermittent Rated Types	▲	14 - 21 Watts
Intermittently Rated types	▲	10 - 14 Watts
Prolonged Rated Types	▲	7 - 10 Watts
Continuously Rated Types	▲	5 - 7 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 - 25% U_s
Typical Pull-In Time	▲	15ms
Typical Drop-Out Time (N/O Contacts to Open):		
Without Suppression	▲	6ms
With Diode Suppression	▲	35ms
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:		
SW68	▲	220 gms
Advised Connection Sizes for Maximum Continuous Current		
Copper busbar	▲	52mm ² [0.081inch ²]
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		

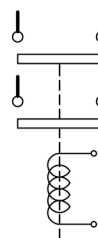
The SW68 features double pole double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The SW68 has M6 stud main terminals and 6.3mm spade coil connections. It can be mounted via M4 tapped holes or mounting brackets – either supplied fitted, or as separate items. Mounting can be on the side or base of the contactor.



Contact Performance Key:

— Interrupted and Uninterrupted Current

Connection Diagram



SW68 Available Options

General	Suffix
Auxiliary Contacts	X
Auxiliary Contacts - V4	X
Magnetic Blowouts†	X
Magnetic Blowouts - High Powered†	X
Armature Cap	X
Mounting Brackets (see PC60, MB60 & SW60 Catalogue)	○
Magnetic Latching† (Not fail safe)	○ M
Closed Contact Housing	●
Environmentally Protected IP66 (see SW68P Catalogue sheet)	○ P
EE Type (Steel Shroud)	X
Contacts	
Large Tips	X
Textured Tips	X
Silver Plating	X
Coil	
AC Rectifier Board (Fitted)	X
Coil Suppression†	○
Flying Leads	X
Manual Override Operation	X
M4 Stud Terminals	○
M5 Terminal Board	X
Vacuum Impregnation	X
Key: Optional ○ Standard ● Not Available X	
† Connections become polarity sensitive	