Application	Interrupted	Uninterrupted
Thermal Current Rating (I^th)	100A	125A
Intermittent Current Rating:		
30% Duty	185A	230A
40% Duty	160A	200A
50% Duty	140A	175A
60% Duty	130A	160A
70% Duty	120A	150A
Rated Fault Current Breaking Capacity (I^tcn) 5ms Time Constant: *(in accordance with UL583*)*		
DC92	800A at 48V	
DC92B	800A at 80V	
Maximum Recommended Contact Voltages (U_e):		
DC92	48V D.C.	
DC92B	96V D.C.	
Typical Voltage Drop per pole across New Contacts at 100A	40mV	
Mechanical Durability	>5 x 10^6 Cycles	
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 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 (N/O contacts to close)	20ms	
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	3ms	
Operating Ambient Temperature	- 40˚C to + 60˚C	
Guideline Contactor Weight:		
DC92	770 gms	
Per Auxiliary	+ 20 gms	
With Blowouts	+ 50 gms	
Auxiliary Details		
Auxiliary Thermal Current Rating	5A	
Auxiliary Contact Switching Capabilities (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	52mm² [0.081inch²]	
Cable	Rated suitable for Application	

Key: = *Interrupted* = *Uninterrupted*

Note: *Where applicable values shown are at 20˚C*

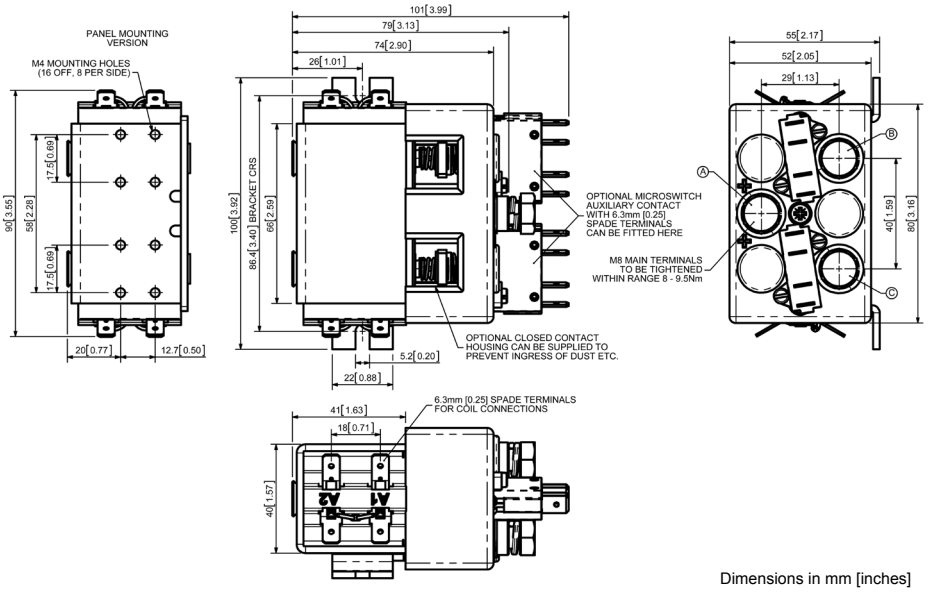
* *Please check our web site for product UL status*

The DC92 has been designed for direct current loads, particularly motors as used on small electric vehicles such as light industrial trucks. Developed for both interrupted and uninterrupted loads, the DC92 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).

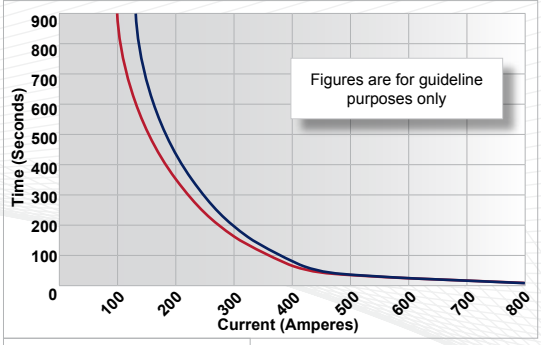
The DC92 features double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. The DC92 is a monoblock construction, resulting in a neat compact design which is compatible with modern electronic control systems. The M8 stud main terminals can be configured in a variety of ways in order to suit the application. Supplied with a mounting bracket as standard, or alternatively supplied with M4 tapped holes. 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.

DC92



Dimensions in mm [inches]

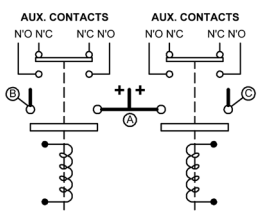
DC92 Contactor Performance



Contact Performance Key:

- Interrupted Current
- Uninterrupted Current

Connection Diagram



DC92 Available Options

General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V3	X	
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	○	B
Armature Cap	○	
Mounting Brackets	●	
Magnetic Latching† (Not fail safe)	○	M
Closed Contact Housing‡	○	
Environmentally Protected IP66 (see DC92P Catalogue sheet)	○	P
EE Type (Steel Shroud)	○	EE
Contacts		
Large Tips	○	L
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*

- **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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