Application	Interrupted	Uninterrupted
Thermal Current Rating (I^2th)	150A	200A
Intermittent Current Rating:		
30% Duty	275A	365A
40% Duty	235A	315A
50% Duty	210A	285A
60% Duty	195A	260A
70% Duty	180A	240A
Rated Fault Current Breaking Capacity (I^2cn) 5ms Time Constant: *(in accordance with UL583*)*		
DC184	1000A at 48V	
DC184B	1000A at 96V	
Maximum Recommended Contact Voltages (U_e):		
DC184	48V D.C.	
DC184B	96V D.C.	
Typical Voltage Drop per pole across New Contacts at 150A	30mV	
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	40 - 50 Watts	
Intermittently Rated types	30 - 40 Watts	
Prolonged Rated Types	15 - 30 Watts	
Continuously Rated Types	10 - 15 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)	30ms	
Typical Drop-Out Time (N/O Contacts to Open):		
Without Suppression	8ms	
With Diode Suppression	60ms	
With Diode and Resistor *(Subject to resistance value)*	25ms	
Typical Contact Bounce Period	3ms	
Operating Ambient Temperature	- 40˚C to + 60˚C	
Guideline Contactor Weight:		
DC184	1450 gms	
Per Auxiliary	+ 20 gms	
With Blowouts	+ 75 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	130mm² [0.20inch²]	
Cable	Rated suitable for Application	

Key: = *Interrupted* = *Uninterrupted*

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

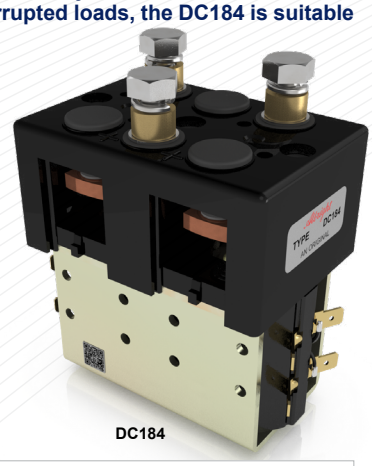
* *Please check our web site for product UL status*

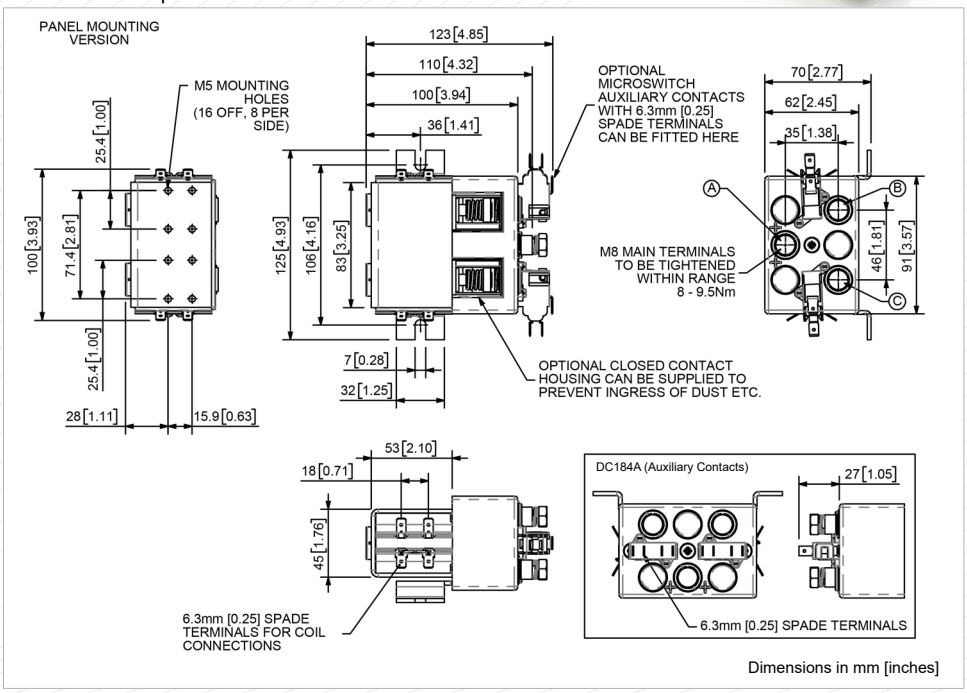
- **Performance data provided should be used as a guide only. Some de-rating/variation from figures may be necessary according to application.**
- **Thermal current ratings stated are dependant upon size of conductor used**
- **For further technical advice email: technical@albrightinternational.com**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

The DC184 has been designed for direct current loads, particularly motors as used on small electric vehicles. Developed for both interrupted and uninterrupted loads, the DC184 is suitable for switching Resistive, Capacitive and Inductive loads.

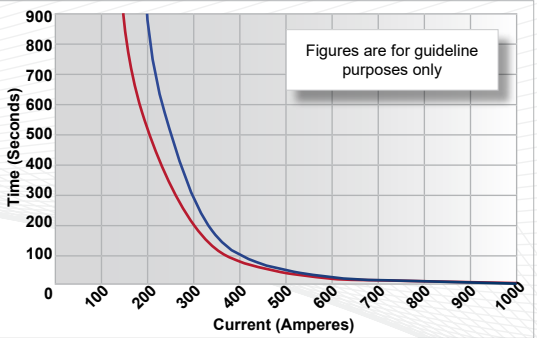
- Interrupted current - opening and closing on load with frequent switching (results in increased contact resistance).
- Uninterrupted current - no or infrequent load switching requirements (maintains a lower contact resistance).

The DC184 features double breaking main contacts with silver alloy tips, which are weld resistant, hard wearing and have excellent conductivity. It 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.





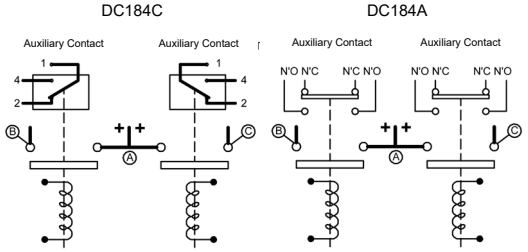
DC184 Contactor Performance



Contact Performance Key:

Interrupted Current **Uninterrupted Current**

Connection Diagram



DC184 Available Options

General		Suffix
Auxiliary Contacts	○	A
Auxiliary Contacts - V3	○	C
Magnetic Blowouts†	○	B
Magnetic Blowouts - High Powered†	X	
Armature Cap	●	
Mounting Brackets	●	
Magnetic Latching† (Not fail safe)	○	M
Dust Shields‡	○	
Environmentally Protected IP66	X	
EE Type (Steel Shroud)	X	
Contacts		
Large Tips	○	L
Textured Tips	○	T
Silver Plating	X	
Coil		
AC Rectifier Board (Fitted)	○	
Coil Suppression†	○	
Flying Leads	○	F
Manual Override Operation	X	
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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