

The DC88-1000P motor reversing type of contactors has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks. The DC88-1000P is a monoblock construction, resulting in a neat compact design which is compatible with modern electronic control systems. Developed for both interrupted and uninterrupted loads, the DC88-1000P is suitable for switching Resistive, Capacitive and Inductive loads and is sealed to IP67.

- 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).

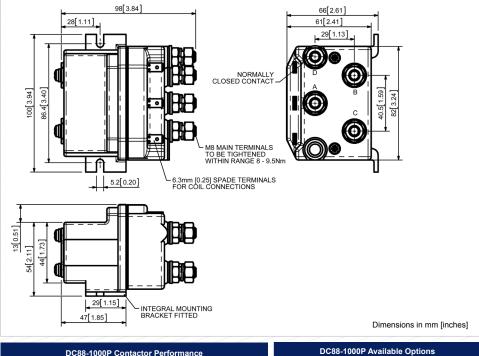
The main contact circuit, designed for motor reversing, has a built in failsafe, so that if both coils are energised simultaneously the contact arrangement is open circuit. The DC88-1000P has double breaking main contacts with silver alloy contact tips, which are weld resistant, hard wearing and have excellent conductivity. The DC88-1000P M8 main stud terminals can be configured in a variety of ways in order to suit the application. Coil connections are by means of

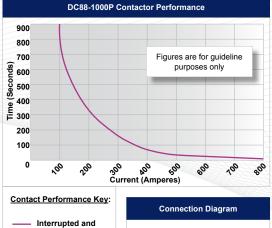
Application Interrupted Uninterrupted Thermal Current Rating (Ith) 100A Intermittent Current Rating 30% Duty 185A 40% Duty 160A 50% Duty 140A 60% Duty 130A 70% Duty 120A Rated Fault Current Breaking Capacity (¹cn) 5ms Time Cor (in accordance with UL583*) 800A at 48V D.C. Maximum Recommended Contact Voltages (U_e): 48V D.C Typical Voltage Drop per pole across New Contacts at 100A: Normally Open < 40mV Normally Closed < 50mV Mechanical M.T.B.F > 5 x 10⁶ Coil Voltage Available (Us) From 6 to 240V D.C. Coil Power Dissipation: Highly Intermittent Rated Types 20 - 30 Watts Intermittently Rated types 15 - 20 Watts 13 - 15 Watts Prolonged Rated Types 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_a Drop-Out Voltage Range 10 - 25% U_S Typical Pull-In Time 20ms Typical Drop-Out Time (N/O Contacts to Open): Without Suppression With Diode Suppression 50ms With Diode and Resistor 8 - 20ms (Subject to resistance value) Typical Main Contact Changeover Time (milliseconds): Normally Closed to Normally Open 7ms Normally Open to Normally Closed 4ms Typical Contact Bounce Period 3ms Operating Ambient Temperature 40°C to + 60°C Guideline Contactor Weight 990 gms Connection Conductor Sizes for Maximum Continuous Current Should be Rated Suitable for Application

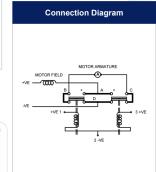
6.3mm spades and mounting is via the moulded bracket and		
can be horizontal or vertical, when vertical the M8 contact studs		
should point upwards. If the requirement is for downwards		
orientation we can adjust the contactor to compensate for this.		



DC88-1000P







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General		Suffix	
Auxiliary Contacts	Х		
Auxiliary Contacts - V3	X		
Magnetic Blowouts†	X		
Magnetic Blowouts - High Powered [†]	X		
Armature Cap	X		
Mounting Brackets	•		
Magnetic Latching [†] (Not fail safe)	0	М	
Closed Contact Housing	•		
Environmentally Protected IP67	•	Р	
EE Type (Steel Shroud)	X		
Contacts			
Large Tips	0	L	
Textured Tips	0	Т	
Silver Plating	Х		
Coil			
AC Rectifier Board (Fitted)	Х		
Coil Suppression†	0		
Flying Leads	X		
Manual Override Operation	X		
M4 Stud Terminals	X		
M5 Terminal Board	X		
Vacuum Impregnation	0		
Key: Optional ○ Standard • N	lot Availab	ole X	
† Connections become polarity sensitive			

- 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

Key: ■ Interrupted ■ = Uninterrupted

Note: Where applicable values shown are at 20°C

* Please check our web site for product UL status

Uninterrupted

Current

Performance data provided should be used as a guide only. Some de-rating or variation from figures may be necessary according to application.