

DISCONNECT SWITCHES

CURTIS

MODEL DC88



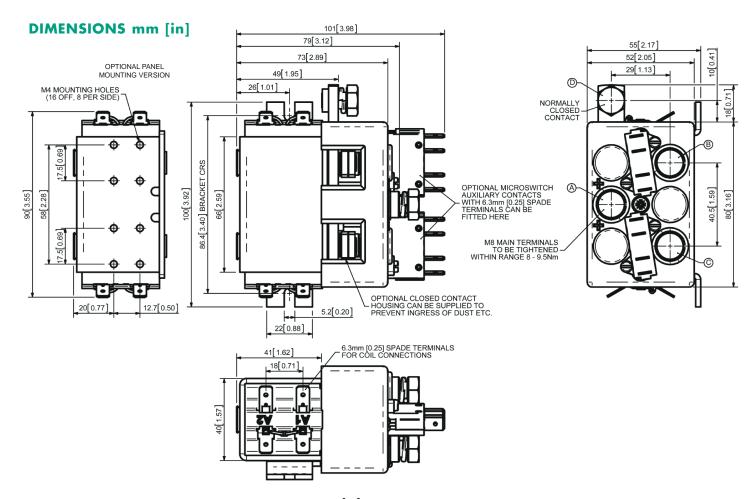


DC88 (with optional tapped holes)

The DC88 motor reversing type of contactor has been designed for direct current loads, particularly motors as used on electric vehicles such as industrial trucks. The DC88 is a monoblock construction, resulting in a compact design which is compatible with modern electronic control systems. Developed for both interrupted and uninterrupted loads, the DC88 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).

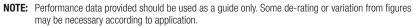
The main contact circuit, designed for motor reversing, has a built in failsafe, so that if both coils are energised simultaneously the contact arrangement is open circuit. The DC88 has double breaking main contacts with silver alloy contact tips, which are weld resistant, hard wearing and have excellent conductivity. The DC88 M8 main stud terminals can be configured in a variety of ways in order to suit the application. Coil connections are by means of 6.3mm spades and mounting is via the supplied 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.



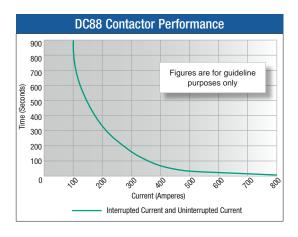
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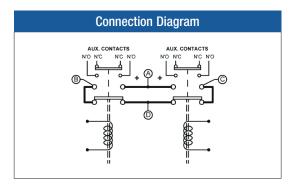
SPECIFICATIONS

Application	Interrupted Uninterrupted	
Thermal Current Rating (th)	100A	
Intermittent Current Rating:		
30% Duty	185A	
40% Duty	160A	
50% Duty	140A	
60% Duty	130A	
70% Duty	120A	
Rated Fault Current Breaking Capacity (Icn) 5ms Time Constant: (in accordance with UL583)		
DC88	800A at 48V	
DC88B	600A at 80V	
Maximum Recommended Contact Voltages (U _e):	200.000	
DC88	48V D.C.	
DC88B	96V D.C.	
Typical Voltage Drop per pole across New Contacts at 100A:	00. 2.0.	
Normally Open	< 40mV	
Normally Closed	< 50mV	
Mechanical M.T.B.F	> 5 x 10 ⁶	
Coil Voltage Available (U _s) (Rectifier board required for A.C.)	From 6 to 240V D.C.	
Coil Power Dissipation:	110111 0 10 2 10 1 2.0.	
Highly Intermittent Rated Types	20 – 30 Watts	
Intermittently Rated types	20 – 30 Watts	
Prolonged Rated Types	13 – 20 Watts	
Continuously Rated Types	7 – 13 Watts	
Maximum Pull-In Voltage (Coil at 20° C) Guideline:	7 10 Watto	
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	20ms	
Typical Drop-Out Time (N/O Contacts to Open):	20110	
Without Suppression	5ms	
With Diode Suppression		
With Diode Suppression With Diode and Resistor (Subject to resistance value)	50ms 8 – 20ms	
Typical Main Contact Changeover Time (milliseconds):	0 – 20113	
Normally Closed to Normally Open	7ms	
Normally Open to Normally Closed		
<u> </u>	4ms	
Typical Contact Bounce Period	3ms -40°C to +60°C	
Operating Ambient Temperature	-40 C t0 +60 C	
Guideline Contactor Weight:	000 ama	
DC88	990 gms	
Per Auxiliary With Plewoute	+ 20 gms	
With Blowouts	+ 50 gms	
Auxiliary Thermal Current Rating	5A	
Auxiliary Contact Switching Capabilities (Resistive Load:)	FA -+ 0.11/ P. O	
DC88	5A at 24V D.C.	
DC88	2A at 48V D.C.	
DC88	0.5A at 240V D.C.	



Thermal current ratings stated are dependant upon the size of conductor being used.





DC88 Available Options

Dood Available Options			
General		Suffix	
Auxiliary Contacts	0	А	
Auxiliary Contacts – V3	X		
Magnetic Blowouts†	0	В	
Magnetic Blowouts – High Powered [†]	0	В	
Armature Cap	0		
Mounting Brackets	0		
Magnetic Latching [†] (Not fail safe)	0	М	
Closed Contact Housing [‡]	0		
Environmentally Protected IP66	0	Р	
EE Type (Steel Shroud)	0		
Contacts			
Large Tips	0	L	
Textured Tips	0	Т	
Silver Plating	X		
Coil			
AC Rectifier Board (Fitted)	0		
Coil Suppression†	0		
Flying Leads	0	F	
Manual Override Operation	0		
M4 Stud Terminals	Х		
M5 Terminal Board	0		
Vacuum Impregnation	0		

Key: Optional ○ Standard • Not Available X

‡ Open Housing Available

 $[\]ensuremath{\dagger}$ Connections become polarity sensitive

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CONFIGURATION





MAIN TERMINAL & MOUNTING OPTIONS

