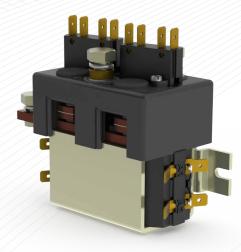


Application	Interrupted Uninterrupte	a
Thermal Current Rating (Ith)	100A	7
ntermittent Current Rating:		
30% Duty	185A	7
10% Duty	160A	
50% Duty	140A	
60% Duty	130A	
70% Duty	120A	ĺ
Rated Fault Current Breaking Capa		
in accordance with UL583")		
DC88	800A at 48V	1
DC88B	600A at 80V	4
Maximum Recommended Contact \		
DC88	48V D.C.	4
DC88B	96V D.C.	Z
Typical Voltage Drop per pole acros	s New Contacts at 100A:	
Normally Open	< 40mV	Z
Normally Closed	< 50mV	4
Mechanical M.T.B.F	>5 x 10 <sup>6</sup>	4
Coil Voltage Available (U <sub>S</sub> ) Rectifier board required for A.C.)	From 6 to 240V D.C.	
Coil Power Dissipation:	_	
Highly Intermittent Rated Types	20 - 30 Watts	4
ntermittently Rated types	15 - 20 Watts	
Prolonged Rated Types	13 - 15 Watts	4
Continuously Rated Types	7 - 13 Watts	Z
Maximum Pull-In Voltage (Coil at 20	°C) Guideline:	
Highly Intermittent Rated types Max 25% Duty Cycle)	60% U <sub>s</sub>	7
ntermittently Rated types Max 70% Duty Cycle)	60% U <sub>s</sub>	_
Prolonged Operation Max 90% Duty Cycle)	60% U <sub>s</sub>	_
Continuously Rated Types 100% Duty Cycle)	66% U <sub>s</sub>	4
Orop-Out Voltage Range	10 - 25% U <sub>S</sub>	Z
Typical Pull-In Time	20ms	1
Typical Drop-Out Time (N/O Contac	ts to Open):	
Vithout Suppression	5ms	4
With Diode Suppression	50ms	1
With Diode and Resistor	8 - 20ms	
Subject to resistance value)	ima (milliagganda):	4
Typical Main Contact Changeover T		
Normally Closed to Normally Open	7ms	4
Normally Open to Normally Closed	4ms	Z
Typical Contact Bounce Period	3ms	4
Operating Ambient Temperature	- 40°C to + 60°C	Z
Guideline Contactor Weight:	200	
DC88	990 gms	Z
Per Auxiliary	+ 20 gms	4
Vith Blowouts	+ 50 gms	1
Auxiliary I		
Auxiliary Thermal Current Rating	5A	Z
Auxiliary Contact Switching Capa		
	5A at 24V D.C.	1
	2A at 48V D.C.	1
	0.5A at 240V D.C.	Z

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).



DC88A (with integral bracket)



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.

DC88 Available Options

0

Х

0

0

0

0

0 0 0

Х

0

В

В

**Auxiliary Contacts** 

Auxiliary Contacts - V3

Magnetic Blowouts - High Powered<sup>†</sup>

Magnetic Latching<sup>†</sup> (Not fail safe)

Environmentally Protected IP66 (see DC88P-1000 Catalogue sheet)

Closed Contact Housing<sup>‡</sup>

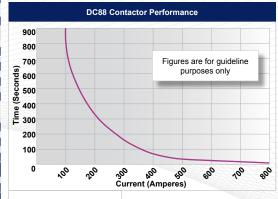
Magnetic Blowouts†

Armature Cap

(See overleaf)

Mounting Brackets

DC88 (with optional tapped holes)



Contact Performance Key: Interrupted and Uninterrupted

Current

**Connection Diagram** 

EE Type (Steel Shroud)	
Contacts	
Large Tips	
Textured Tips	
Silver Plating	
Coil	
AC Rectifier Board (Fitted)	
Coil Suppression <sup>†</sup>	
Flying Leads	
Manual Override Operation	

Vacuum Impregnation Key: Optional ○ Standard • Not Available X

- † Connections become polarity sensitive
- <sup>‡</sup> Open Housing Available

M4 Stud Terminals

M5 Terminal Board

- 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

\* Please check our web site for product UL status







