D.C.E.M BRAKES (DM 500)



INTRODUCTION

DC Electro-Magnetic shoe brakes are actuated by an energy stored in the compression spring and is released by a DC electromagnet. Thus, the brake is fail-safe and is normally (applied). The DC magnet coil, when energized releases the brake. These brakes are characterized by robust construction and design. These are especially suited for Steel Mills, Hoists and Elevators.



TORQUE RATINGS

BRAKE	DRUM	Breaking torque kgm	
TYPE	DIA.	40% Duty	100% Duty
DM 100	100	02	1.00
DM 150	150	10	7
DM 160	160	10	7
DM 200	200	12.5	10
DM 250	250	35	22
DM 300	300	50	25
DM 400	400	120	80
DM 500	500	190	110
DM 600	600	355	195

FEATURES

- Robust contruction and simple design.
- Reliable breaking action.
- Efficient transmission of forces
- Ease of maintanance
- Ease of torque adjustment.
- Brake shoe replacement without dismantal .
- Magnet housing is of dust proof construction.

BRAKE SELECTION

The brake torque must be => than motor full load as referred with drum. Formula as below:

T = Torque in Kgm = $\frac{716 \times Hp}{rpm}$

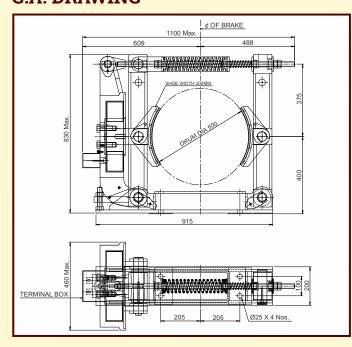
T = Torque in Nm = 9552 x Kw

Where Hp/Kw = motor output & rpm = Rev/minute

TECHNICAL SPECIFICATION

MODEL	DM-500	
ITEM CODE	100900090001	
DRUM DIA. (MM)	500	
BREAKING TORQUE (KGM)	190	
STROKE (MM)	3	
VOLTAGE INPUT	415V AC through rectifier	
INRUSH VOLTAGE	350VDC	
HOLDING VOLTAGE	110VDC	
OPERATING TEMPERATURE -30° + 50°C		
COIL	Copper wire epoxy resin encapsulated	
RATING	Continuous	
NO OF OPERATIONS	720/hr	
INSULATION	H Class	
WEIGHT (KG)	364	

G.A. DRAWING



H. O. Unit -I: C-15/16, Nand Jyot Industrial Estate, Andheri-Kurla Road, Mumbai - 400072, Tel: (022) 42469700/730

E-mail: sales@socgroup.in

Unit - II: Plot No. 4912, G. I. D. C., Phase IV, Vatva, Ahmedabad - 382445 Tel.: (079) 68169700/702/712 E-mail: enquiry2@socgroup.in

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