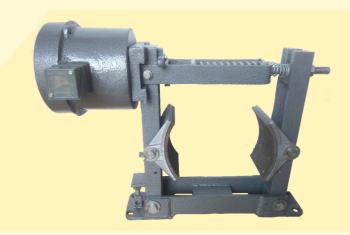
# D.C.E.M BRAKES (DM 300)



### 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

## TECHNICAL SPECIFICATION

MODEL	DM-300		
ITEM CODE	100900060001		
DRUM DIA. (MM)	300		
BREAKING TORQUE (KGM)	50		
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)	94		

#### **FEATURES**

- Robust construction and simple design.
- Reliable breaking action.
- Efficient transmission of forces
- Ease of maintanance
- Ease of torque adjustment.
- Brake shoe replacement without dismantling.
- 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:

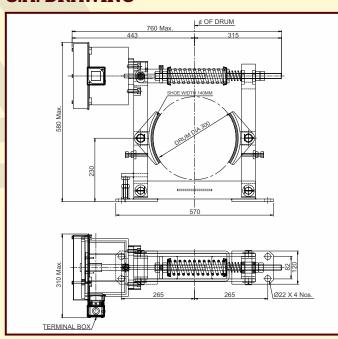
T = Torque in Kgm = 716 x Hp rpm

T = Torque in Nm =  $9552 \times Kw$ 

rpm

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

#### **G.A. DRAWING**



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