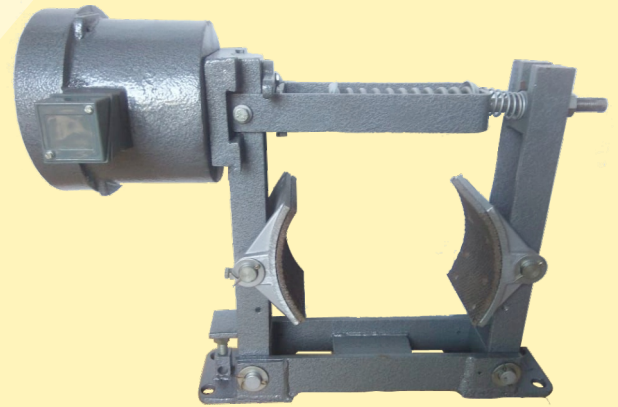


# D.C.E.M BRAKES (DM 100)



## 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 TYPE | DRUM DIA. | Breaking torque kgm |           |
|------------|-----------|---------------------|-----------|
|            |           | 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 construction and simple design.
- Reliable breaking action.
- Efficient transmission of forces
- Ease of maintenance
- 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:

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

$$T = \text{Torque in Nm} = \frac{9552 \times \text{Kw}}{\text{rpm}}$$

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

## TECHNICAL SPECIFICATION

|                       |                                      |
|-----------------------|--------------------------------------|
| MODEL                 | DM-100                               |
| ITEM CODE             | 100900010001                         |
| DRUM DIA. (MM)        | 100                                  |
| BREAKING TORQUE (KGM) | 2                                    |
| 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)           | 16                                   |

## G.A. DRAWING

