

MDT 150-18 (MILL DUTY THRUSTER BRAKES)



INTRODUCTION

Thruster Brake is a device to retard the speed of moving machinery and to stop it accurately to the desired position. The breaking force is applied to the brake shoes by a pre-stressed compression spring. The shoes press on the rotating brake drum retarding its speed, and finally stopping it.

TECHNICAL DATA

| ITEM | BRAKE | THRUSTER |
|-------------------------------|---------------------------------|--------------------------|
| MODEL | MDT - 150-18 | ST-520 |
| DRUM DIA | 150 mm | ..... |
| BRAKE SHOE | Asbestos free/BA | ..... |
| BRAKING TORQUE | 9 Kg-m | ..... |
| THRUST | ..... | 18 Kg |
| STROKE | ..... | 50 mm |
| OIL + CAPACITY | ..... | Transformer Oil 2 Litrs |
| RATED VOLTAGE | ..... | 415V±10%,3PhAC,50Hz |
| CURRENT AT 415 V AC | ..... | 0.4 Amps |
| POWER | ..... | 90 Watt |
| INSULATION | ..... | F Class |
| INGRESS PROTECTION MOTOR ONLY | ..... | IP-54 IS/IEC 60529(2001) |
| SURFACE TEMPERATURE | ..... | +50°C |
| WEIGHT | 7 kg | 6 kg |
| POWDER COATING | Colour RAL 7021 | ..... |
| OPTION | | |
| LAF | Asbestos Free Liner | ..... |
| LWI | Lining Wear Indicator | ..... |
| OL | Open Brake Limit Switch | ..... |
| MS | Manual Opening & Locking System | ..... |



SELECTION OF BRAKE SIZE

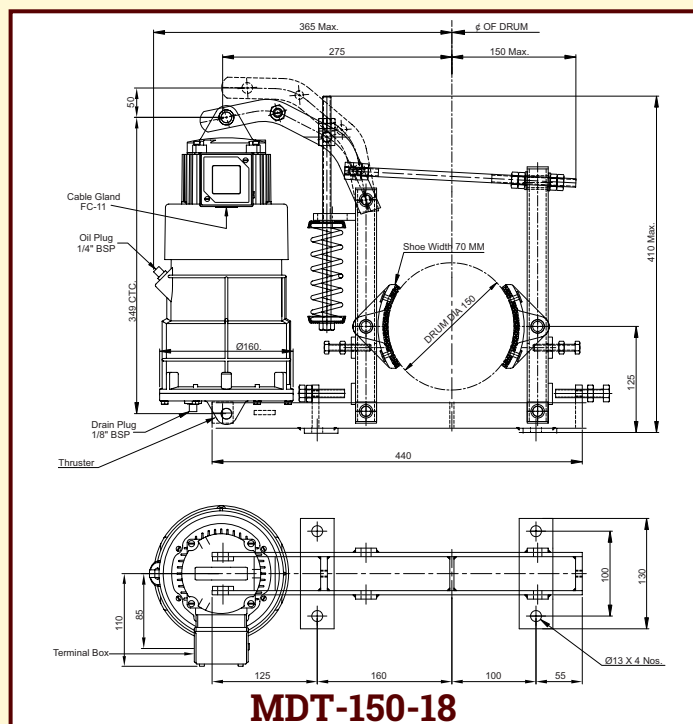
Electo-hydraulic thruster is a device which develops linear thrust (or force) required to operate the required mechanism. The input to the device is three phase supply.

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

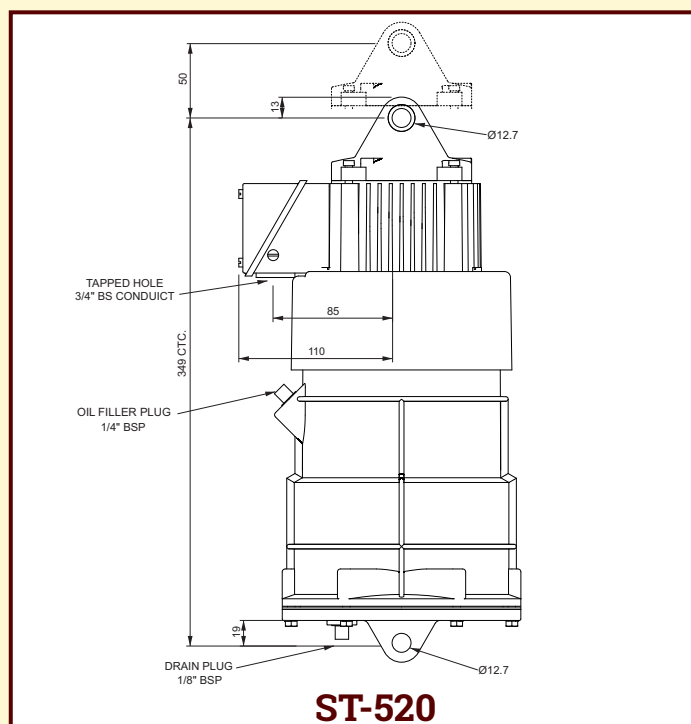
$$T = \text{Torque in Kgm} = \frac{716 \times \text{Hp}}{\text{rpm}}$$

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

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



MDT-150-18



ST-520

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