



# INDUSTRIAL BRAKES SDM 400-30/05

## TECHNICAL DATA

| ITEM                    | BRAKE                             | THRUSTER                                 |
|-------------------------|-----------------------------------|------------------------------------------|
| MODEL                   | SDM 400-30/05                     | ELDY - 30/05                             |
| DRUM DIA                | 400 mm                            | -----                                    |
| SHOE WIDTH              | 140 MM                            | -----                                    |
| BRAKE SHOE              | Aluminum +<br>Asbestos free Liner | -----                                    |
| FRICTION<br>COEFFICIENT | $\mu$ 0.42                        | -----                                    |
| BRAKING TORQUE          | 57 Kg-m - 575 Nm                  | -----                                    |
| THRUST                  | -----                             | 30 Kg                                    |
| STROKE                  | -----                             | 50 mm                                    |
| OIL + CAPACITY          | -----                             | Transformer Oil<br>IS - 335 (2.4 Liters) |
| RATED VOLTAGE           | -----                             | 415 V $\pm$ 10%<br>50 Hz 3Ph AC          |
| CURRENT                 | -----                             | 0.6 Amps ( $\pm$ 2%)                     |
| INSULATION              | -----                             | F Class                                  |
| INGRESS<br>PROTECTION   | -----                             | IP - 65<br>IS/IEC 60529 (2001)           |
| AMBIENT TEMP            | -----                             | 50° C                                    |
| POWER                   | -----                             | 250 Watt                                 |
| WEIGHT                  | 74 Kg                             | 13 Kg                                    |

|      |                                           |
|------|-------------------------------------------|
| LWC  | LINING WEAR COMPENSATOR                   |
| LWI  | LINING WEAR INDICATOR                     |
| HRL  | HAND RELEASE LEVER                        |
| LWLS | LINING WEAR LIMIT SWITCH                  |
| BRLS | BRAKE RELEASE LIMIT SWITCH                |
| BELS | BRAKE ENGAGING LIMIT SWITCH               |
| SS   | STAINLESS STEEL PINS                      |
| LUB  | LUBRICATORS ON MAIN PINS                  |
| SV   | SPECIAL VOLTAGE                           |
| SPA  | PAINT ACCORDING TO CUSTOMER SPECIFICATION |



## SELECTION OF BRAKE SIZE

SDM Thruster brakes are steel fabricated frames with Eldy Thruster as per din standard.

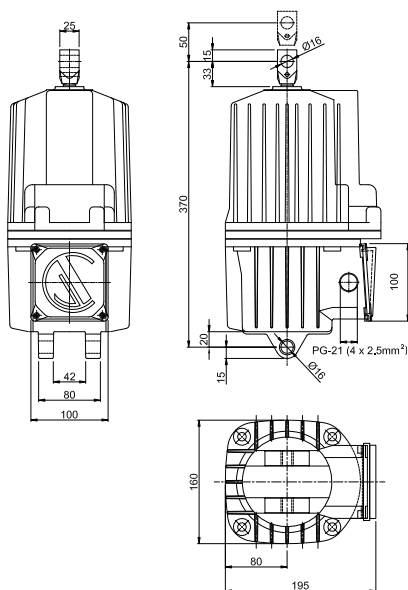
Excellent designs & good manufacturing process ensure a reliable product.

The brake torque must be  $\geq$  than motor full load as referred with drum. Formula as below:

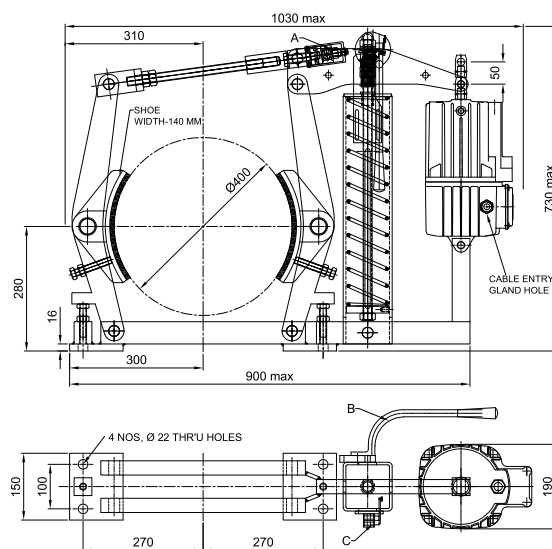
$$T = \text{Torque in Kgm} = \frac{716 \times \text{Hp}}{\text{rpm}}$$

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

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



**ELDY 30-05**



**SDM-400-30/05**

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