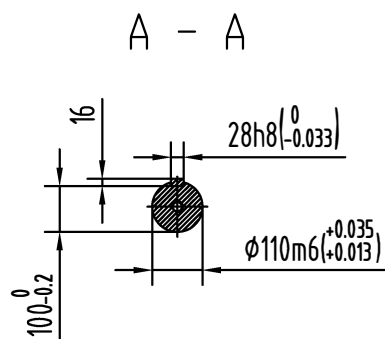
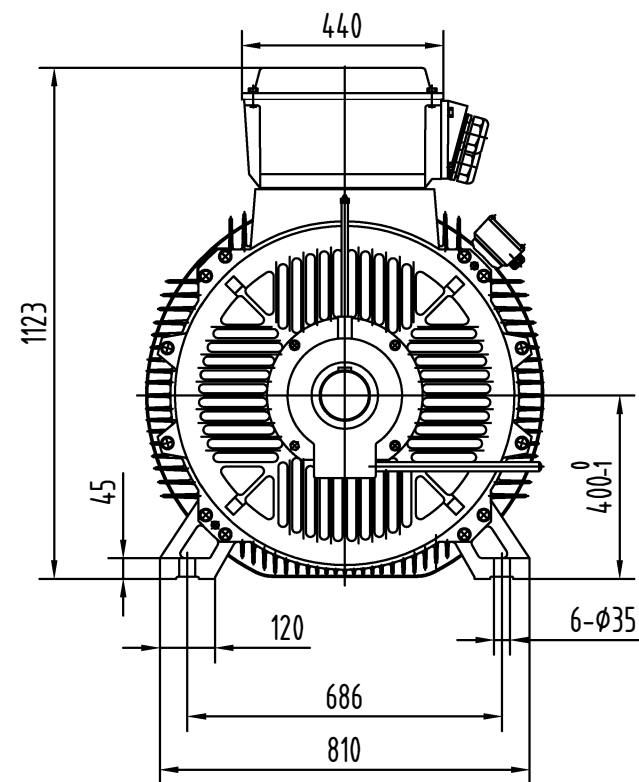
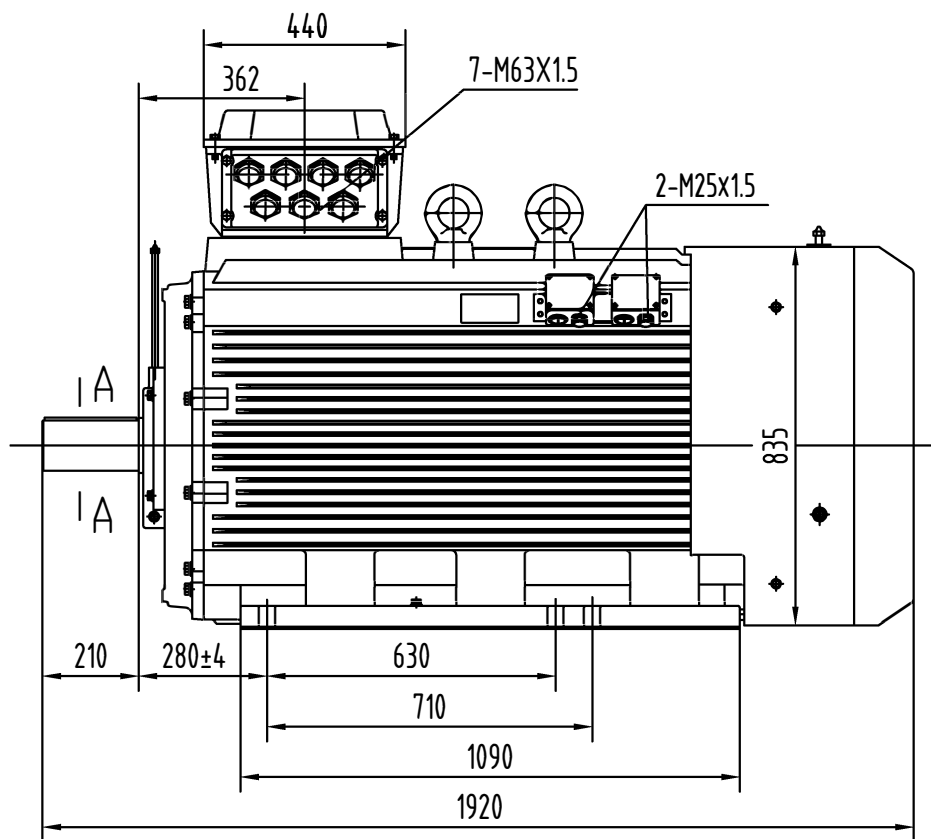


|                                |                |                               |                 |                             |                                                                                                            |              |
|--------------------------------|----------------|-------------------------------|-----------------|-----------------------------|------------------------------------------------------------------------------------------------------------|--------------|
| <b>TEC ELECTRIC MOTORS LTD</b> |                |                               |                 |                             | <br>www.tecmotors.co.uk |              |
| <b>Data Sheet</b>              |                |                               | No.             |                             |                                                                                                            |              |
| Three Phase Induction Motor    |                |                               | Drawing No.     | Y2-400-4~12 B3              |                                                                                                            |              |
| Customer :                     |                |                               |                 |                             |                                                                                                            |              |
| Client reference:              |                |                               |                 |                             |                                                                                                            |              |
| Type:                          |                | IE3 400-4 450kW 400/690V 50Hz |                 |                             |                                                                                                            |              |
| Brand :                        |                | TEC                           |                 |                             |                                                                                                            |              |
| <b>Identification</b>          |                |                               |                 |                             |                                                                                                            |              |
| Frame:                         | 400 mm         | Insulation Class:             | F               |                             |                                                                                                            |              |
| Output:                        | 450 kW         | Temperature Rise:             | 80K             |                             |                                                                                                            |              |
| Frequency:                     | 50 Hz          | Service Factor:               | 1.0             |                             |                                                                                                            |              |
| Poles:                         | 4 P            | Duty:                         | S1              |                             |                                                                                                            |              |
| Rated Speed:                   | 1490 rpm       | Ambient Temperature:          | -20~40°C        |                             |                                                                                                            |              |
| Slip:                          | 0.67 %         | Altitude:                     | 1000m           |                             |                                                                                                            |              |
| Rated Voltage:                 | 400 / 690 V    | Protection Degree:            | IP55            |                             |                                                                                                            |              |
| Connection:                    | △/Y            | Cooling:                      | IC411           |                             |                                                                                                            |              |
| Rated Current:                 | 769 / 446 A    | Mounting:                     | IM B3           |                             |                                                                                                            |              |
| Rotor Voltage:                 |                | Vibration:                    | 2.8 mm/s        |                             |                                                                                                            |              |
| Connection:                    |                | Approx. Weight:               | 3240 kg         |                             |                                                                                                            |              |
| Rotor Current:                 |                | Moment of Inertia:            | 16.45 kg/m2     |                             |                                                                                                            |              |
| Locked Rotor Current:          | 700 %          | Noise Level (Lp) :            | 95 dB(A)        |                             |                                                                                                            |              |
| No Load Current:               |                | Direction of Rotation:        | Both            |                             |                                                                                                            |              |
| Rated Torque:                  | 2884.2 Nm      | Starting Method:              | DIRECT ON LINE  |                             |                                                                                                            |              |
| Locked Rotor Torque:           | 110 %          | Coupling:                     | DIRECT          |                             |                                                                                                            |              |
| Breakdown Touque:              | 200 %          | Load Type:                    | PARABOLIC CURVE |                             |                                                                                                            |              |
| <b>Performance</b>             |                |                               |                 | <b>Bearing Information</b>  |                                                                                                            |              |
| Output                         | 50%            | 75%                           | 100%            |                             | DE                                                                                                         | NDE          |
| Efficiency(%):                 | 93.1           | 96.0                          | 96              | Bearing :                   | 6326C3                                                                                                     | 6326C3       |
|                                |                |                               |                 | Regreasing int, (h)         | 4000                                                                                                       | 4000         |
| Power Factor:                  | 0.75           | 0.84                          | 0.88            | Grease amount (g)           | 85                                                                                                         | 85           |
|                                |                |                               |                 | Grease-PolyrexEM            | CALTEX SRI-2                                                                                               | CALTEX SRI-2 |
| <b>Notes / Accessories</b>     |                |                               |                 | <b>Deviation Sheet</b>      |                                                                                                            |              |
|                                |                |                               |                 | TEC                         |                                                                                                            |              |
|                                |                |                               |                 | Customer                    |                                                                                                            |              |
| With winding PTC150℃ 3 PCS     |                |                               |                 |                             |                                                                                                            |              |
| With bearing PT100 2 PCS       |                |                               |                 |                             |                                                                                                            |              |
| With space heater 230V         |                |                               |                 |                             |                                                                                                            |              |
|                                |                |                               |                 |                             |                                                                                                            |              |
|                                |                |                               |                 |                             |                                                                                                            |              |
| <b>Standards</b>               |                |                               |                 | <b>PRELIMINARY DOCUMENT</b> |                                                                                                            |              |
| Specification                  |                | IEC60034-1                    |                 |                             |                                                                                                            |              |
| Test                           | IEC60034-2     |                               |                 |                             |                                                                                                            |              |
| Noise                          | IEC60034-9     |                               |                 |                             |                                                                                                            |              |
| Vibration                      | IEC60034-14    |                               |                 |                             |                                                                                                            |              |
| <b>Edition</b>                 |                |                               |                 |                             |                                                                                                            |              |
| Performed                      | Checked        |                               | Date            |                             |                                                                                                            |              |
|                                |                |                               |                 |                             |                                                                                                            |              |
|                                |                |                               |                 |                             |                                                                                                            |              |
|                                |                |                               |                 |                             |                                                                                                            |              |
| <b>Item</b>                    | <b>Changes</b> |                               |                 | <b>Performed</b>            | <b>Checked</b>                                                                                             | <b>Date</b>  |
|                                |                |                               |                 |                             |                                                                                                            |              |
|                                |                |                               |                 |                             |                                                                                                            |              |
|                                |                |                               |                 |                             |                                                                                                            |              |
|                                |                |                               |                 |                             |                                                                                                            |              |

# OUTLINE



|          |     |      |                  |           |      |         |        |          |             |  |
|----------|-----|------|------------------|-----------|------|---------|--------|----------|-------------|--|
|          |     |      |                  |           |      | OUTLINE |        |          | Y2-400-4~10 |  |
| Mark     | No. | Zone | Changed file No. | Signature | Data |         |        |          |             |  |
| Design   |     |      | Standard         |           |      | Sign    | Weight | Scale    |             |  |
| Check    |     |      |                  |           |      |         |        | 1:16     |             |  |
| Auditing |     |      |                  |           |      |         |        |          |             |  |
| Technics |     |      | Approvil         |           |      | Total   | page   | page No. |             |  |

