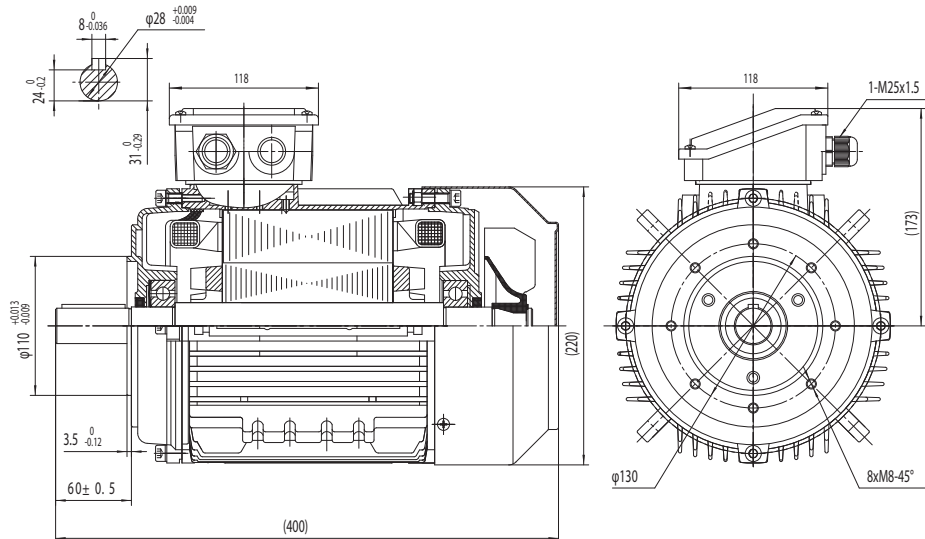


Type T3A 112M-4

Cod. R1120404,014B5A0TAMT

Mounting position

|    |      |
|----|------|
| IM | B14  |
| IM | 3601 |



| Electrical data             |       |         |                        |
|-----------------------------|-------|---------|------------------------|
| Rated motor power           | 4     |         | Kw                     |
| Rated motor speed           | 1435  |         | min <sup>-1</sup> 50Hz |
|                             | 1725  |         | min <sup>-1</sup> 60Hz |
| Rated motor frequency       | 50    |         | Hz                     |
| Rated motor voltage(+/-10%) | 400   |         | VΔ/50Hz                |
|                             | 690   |         | VY/50Hz                |
|                             | 480   |         | VΔ/60Hz                |
|                             | 830   |         | VY/60Hz                |
| Rated motor torque          | 26.62 |         | Nm (Mn)                |
| Rated motor current         | 8.25  | VΔ/50Hz | A (In)                 |
|                             | 4.77  | VY/50Hz | A (In)                 |
| Starting motor current      | 7.9   |         | xIn                    |
| Starting motor torque       | 2.5   |         | xMn                    |
| Breakdown motor torque      | 3     |         | xMn                    |
| Starting                    |       |         | D.O.L.                 |
| Efficiency class            | IE3   |         |                        |
| Efficiency                  | 50Hz  | 60Hz    |                        |
|                             | 88.8  | 88.6    | 100% load              |
|                             | 89.4  | 88      | 75% load               |
|                             | 83.4  | 87.3    | 50% load               |
| Power factor cosφ           | 0.79  | 0.79    | 100% load              |

| General data                      |                    |      |           |
|-----------------------------------|--------------------|------|-----------|
| Frame size                        | 112                |      |           |
| Mounting                          | B14                |      |           |
| Weight                            | 42.24              |      | Kg        |
| Casing material                   | Aluminum           |      |           |
| Protection                        | IP                 | 55   |           |
| Insulation class/Temperature rise | F                  | /    | B         |
| Tropicalization                   | Yes                |      |           |
| Vibration class                   | N                  |      |           |
| Duty                              | S1                 |      |           |
| Direction of rotation             | Bidirectional      |      |           |
| Method of cooling                 | IC                 | 411  |           |
| Cable entry                       | 2-M25x1,5          |      |           |
| Standards                         | IEC/DIN/ISO/VDE/EN |      |           |
| Execute at Standard               | IEC 60034-1        |      |           |
| Feet removable                    | Yes                |      |           |
| Paintwork                         | RAL                | 7024 | dark grey |
| Thermal protections               | PTC 150°C          |      | Standard  |

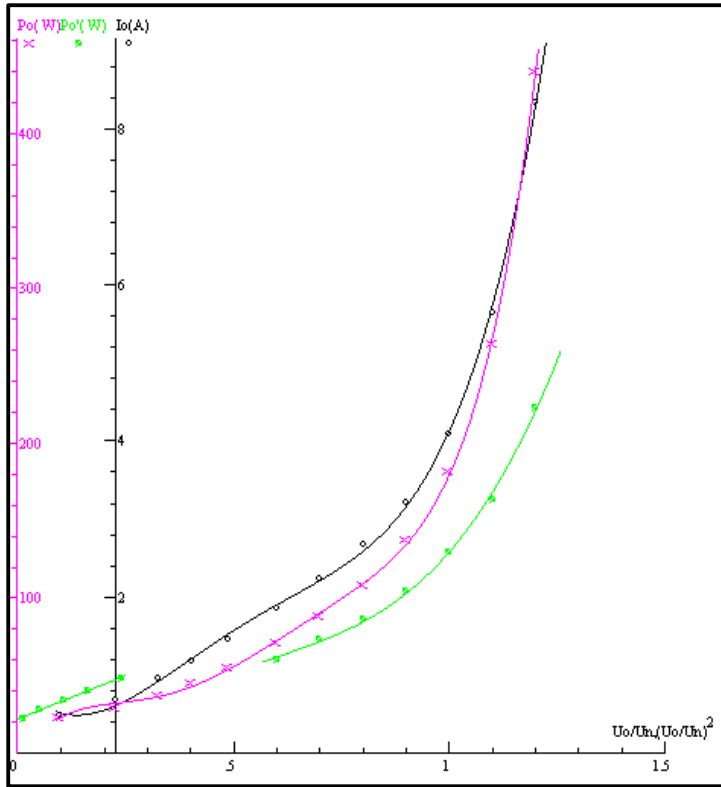
| Site conditions          |                     |
|--------------------------|---------------------|
| Ambient temperature      | from -20°C to +40°C |
| Altitude above sea level | 1000 m              |

| Mechanical data         |   |    |                  |                                       |             |
|-------------------------|---|----|------------------|---------------------------------------|-------------|
| Noise level             | LpA   | 73 | dB(A)            | Bearing DE side                       | 6306-2RS-C3 |
|                         | LwA   | 83 | dB(A)            | Bearing NDE side                      | 6206-2RS-C3 |
| Moment of inertia       | 0.0114  |    | Kgm <sup>2</sup> | Average bearing lifetime              | 40000 h     |
| Bearings type           |   |    | NSK              | Relubrication interval L1 DE bearing  | life h      |
| Lubricants for bearings | See installation and maintenance manual page 12 |    |                  | Relubrication interval L1 NDE bearing | life h      |
|                         |   |    |                  | Compensation ring                     | NDE SIDE    |

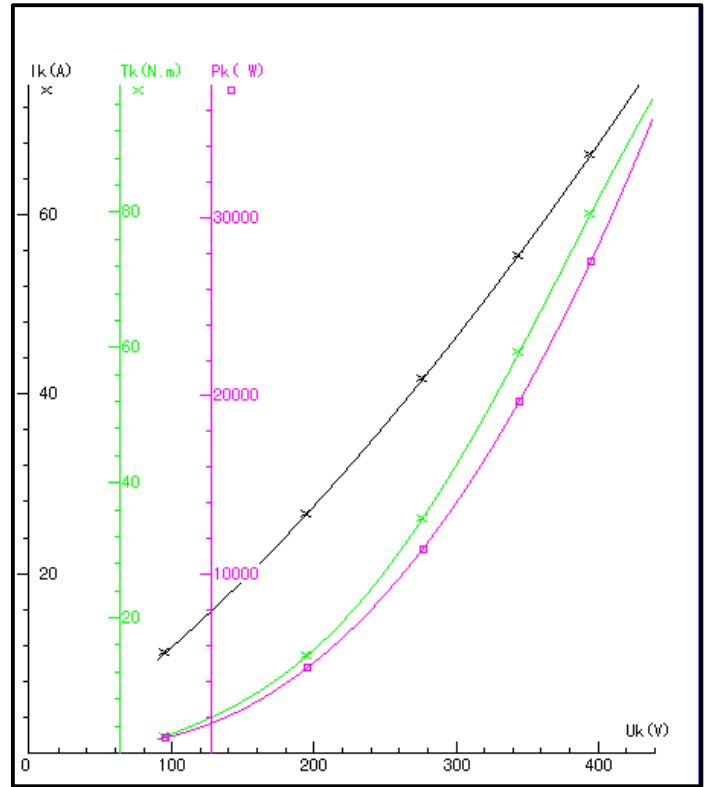
Type: T3A112M-4 Voltage: 400/690 V Design No: Shanghai Techttop Motor Co., Ltp  
 Output 4 KW Connection:  $\Delta$ /Y  
 Frequency: 50 Hz Duty: S1 Report No: 20100916001

| Test Item |  | Standard       |       | Result         |       |
|-----------|--|----------------|-------|----------------|-------|
|           |  | Nominal        | Tol   |                |       |
| 1         | Efficiency %                                     |                |       | 88,75          |       |
| 2         | Power Factor                                     |                |       | 0,82           |       |
| 3         | Tem. Rise of Stator Winding K                    |                |       | 57,3           |       |
| 4         | Vibration mm/s                                   |                |       |                |       |
| 5         | Noise Lp dB (A) (Lw)                             |                |       |                |       |
| 6         | Breakdown Torque/Rated Torque                    |                |       | 3,74           |       |
| 7         | Pullup Torque/Rated Torque                       |                |       | 2,66           |       |
| 8         | Locked Rotor Tor./Rated Tor.                     |                |       | 3,09           |       |
| 9         | Locked Rotor Cur./Rated Cur.                     |                |       | 8,54           |       |
| 10        | High Voltage Test V                              |                |       | 1800           |       |
| 11        | Hot Insulation Res. of Stator Winding M $\Omega$ |                |       | 300            |       |
| 12        | Temperature of Bearing $^{\circ}$ C              |                |       | 65             |       |
| 13        | Unbalance of Current %                           |                |       | 3,25           |       |
| 14        | Full Load line Current A                         |                |       | 7,933          |       |
| 15        | Full-load input power (W)                        |                |       | 4506,8         |       |
| 16        | Full Load torque Nm                              |                |       | 26,445         |       |
| 17        | Max.temp.of enclosure surface $^{\circ}$ C       |                |       | 62,7           |       |
| 18        | No Load Current A                                |                |       | 4,122          |       |
| 19        | Slip %   |                |       | 3,1804         |       |
| 20        | Winding phase resistance 95 $^{\circ}$ C         |                |       | 3,5594         |       |
| 21        | Stary-load loss (W)                              |                |       | 32,131         |       |
| 22        | No-load input power (W)                          |                |       | 179,23         |       |
| 23        | Core loss (W)                                    |                |       | 103,87         |       |
| 24        | Friction and wind age loss(W)                    |                |       | 22,188         |       |
| 25        | Locked Rotor Power (W)                           |                |       | 28388          |       |
| 26        | StatorI2Rloss (W)                                |                |       | 215,44         |       |
| 27        | RotorI2Rloss (W)                                 |                |       | 133,18         |       |
| 28        | Locked Rotor Voltage                             | Current A      | 11,82 | Power W        | 960,8 |
|           |  | 50%eff: 89,387 |       | 75%eff: 88,617 |       |

### NO LOAD



### LOCKED ROTOR



### LOAD

