

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

|  |                 |   |              |  |                  |                      |
|--|-----------------|---|--------------|--|------------------|----------------------|
| Customer :   |                 |   |              |  |                  |                      |
| Product line   |                 | : W22 Brake Motor NEMA Premium Efficiency Three-Phase |              | Product code :   |                  | 14815569             |
| Frame  | :               | 284/6TC   |              | Locked rotor time  | :                | 36s (cold) 20s (hot) |
| Output   | :               | 30 HP (22 kW)   |              | Temperature rise   | :                | 80 K                 |
| Frequency  | :               | 60 Hz   |              | Duty cycle   | :                | Cont.(S1)            |
| Rated voltage  | :               | 575 V   |              | Ambient temperature  | :                | -20°C to +40°C       |
| Poles  | :               | 4   |              | Altitude   | :                | 1000 m.a.s.l.        |
| Rated current  | :               | 28.1 A  |              | Protection degree  | :                | IP55                 |
|  | :               | 6.1x(Code G)  |              | Cooling method   | :                | IC411 - TEFC         |
| Rated speed  | :               | 1770 rpm  |              | Mounting   | :                | F-1                  |
| Rated torque   | :               | 12.3 kgfm   |              | Rotation <sup>1</sup>  | :                | Both (CW and CCW)    |
| Insulation class   | :               | F   |              | Noise level <sup>2</sup>   | :                | 63.0 dB(A)           |
| Service factor   | :               | 1.25  |              | Starting method  | :                | Direct On Line       |
| Moment of inertia (J)  | :               | 0.2467 kgm <sup>2</sup>                               |              | Approx. weight <sup>3</sup>  | :                | 236 kg               |
| Design   | :               | B   |              |  |                  |                      |
| Output   | 25%             | 50%   | 75%          | 100%   | Foundation loads |                      |
| Efficiency (%)   | 0.000           | 93.0  | 93.0         | 93.6   | Max. traction    | : 304 kgf            |
| Power Factor   | 0.00            | 0.70  | 0.80         | 0.84   | Max. compression | : 540 kgf            |
| Losses at normative operating points (speed;torque), in percentage of rated output power   |                 |   |              |  |                  |                      |
| P1 (0,9;1,0)   | P2 (0,5;1,0)    | P3 (0,25;1,0)   | P4 (0,9;0,5) | P5 (0,5;0,5)   | P6 (0,5;0,25)    | P7 (0,25;0,25)       |
| 6.8  | 5.8             | 5.2   | 3.1          | 2.2  | 1.4              | 0.9                  |
|  |                 | <u>Drive end</u>                                      |              | <u>Non drive end</u>   |                  |                      |
| Bearing type   | :               | 6311 C3   |              | 6211 C3  |                  |                      |
| Sealing  | :               | V'Ring  |              | Lip Seal   |                  |                      |
| Lubrication interval   | :               | 20000 h   |              | 20000 h  |                  |                      |
| Lubricant amount   | :               | 18 g  |              | 11 g   |                  |                      |
| Lubricant type   | :               | Mobil Polyrex EM                                      |              |  |                  |                      |
| Notes  |                 |   |              |  |                  |                      |
| This revision replaces and cancel the previous one, which must be eliminated.<br>(1) Looking the motor from the shaft end.<br>(2) Measured at 1m and with tolerance of +3dB(A).<br>(3) Approximate weight subject to changes after manufacturing process.<br>(4) At 100% of full load. |                 |   |              | These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1. |                  |                      |
| Rev.   | Changes Summary |   |              | Performed  | Checked          | Date                 |
| Performed by   |                 |   |              |  |                  |                      |
| Checked by   |                 |   |              |  | Page             | Revision             |
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Customer : \_\_\_\_\_

### Brake information

Voltage: 220-240 V  
Brake Torque: 26.5 kgfm

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|--------------|-----------------|-----------|---------|----------|
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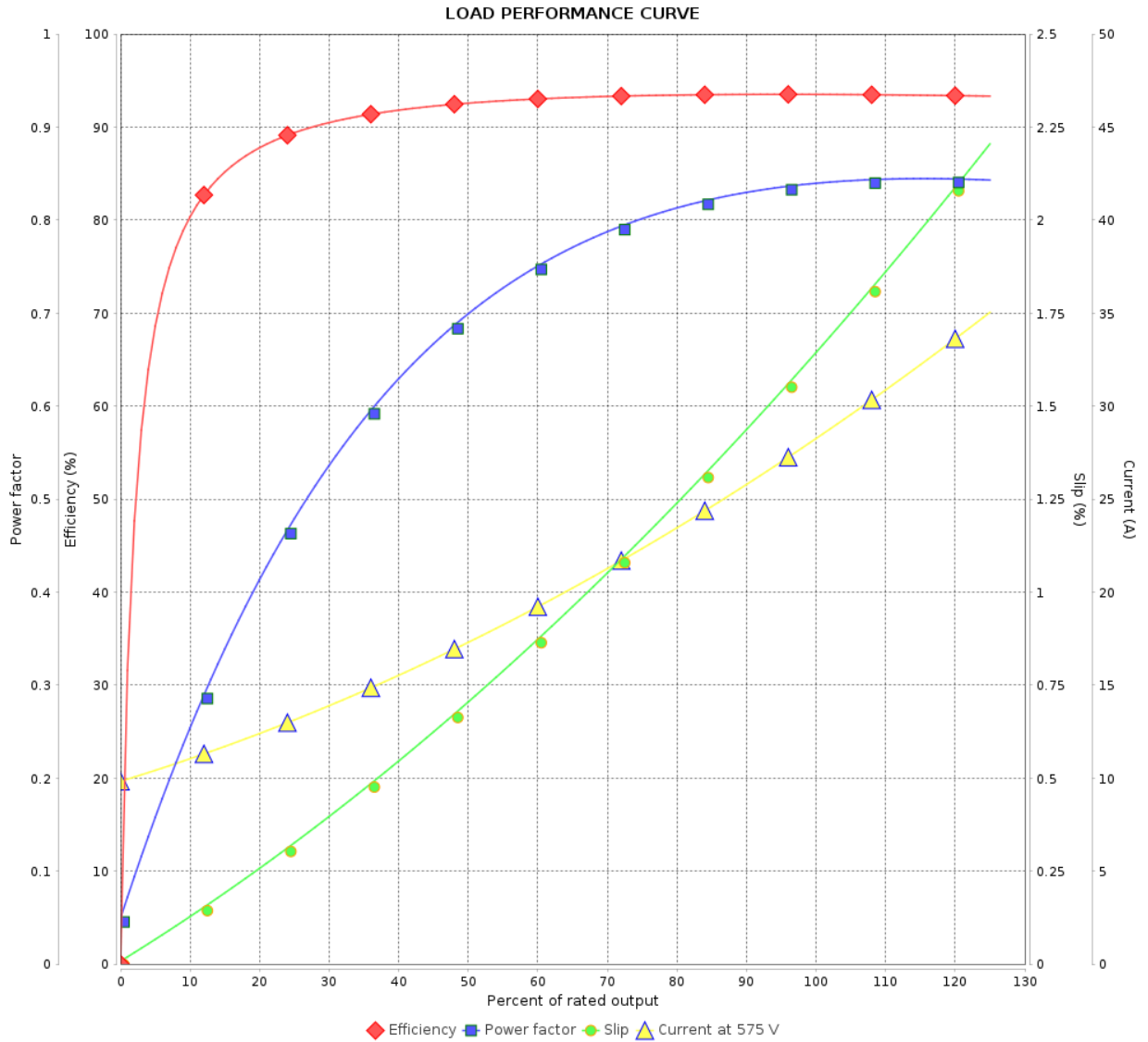
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase      Product code : 14815569



| Rev.         | Changes Summary | Performed     | Checked | Date     |
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| Date         |                 |               |         |          |

