

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 19322053

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : 143/5T                  | Locked rotor time           | : 50s (cold) 28s (hot) |
| Output                | : 1 HP (0.75 kW)          | Temperature rise            | : 80 K                 |
| Poles                 | : 6                       | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 460 V                   | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 1.73 A                  | Protection degree           | : IP56                 |
| L. R. Amperes         | : 10.7 A                  | Cooling method              | : IC411 - TEFC         |
| LRC                   | : 6.2x(Code K)            | Mounting                    | : F-2                  |
| No load current       | : 1.10 A                  | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1160 rpm                | Noise level <sup>2</sup>    | : 50.0 dB(A)           |
| Slip                  | : 3.33 %                  | Starting method             | : Direct On Line       |
| Rated torque          | : 0.626 kgfm              | Approx. weight <sup>3</sup> | : 24.0 kg              |
| Locked rotor torque   | : 260 %                   |                             |                        |
| Breakdown torque      | : 300 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.25                    |                             |                        |
| Moment of inertia (J) | : 0.0067 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 77.0 | 82.0 | 82.5 | Max. traction    | : 47 kgf |
| Power Factor   | 0.45 | 0.57 | 0.66 | Max. compression | : 74 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) |
|--------------|--------------|---------------|--------------|--------------|---------------|----------------|
| 20.0         | 16.7         | 16.9          | 12.6         | 9.2          | 7.6           | 5.8            |

|                      | Drive end        | Non drive end |
|----------------------|------------------|---------------|
| Bearing type         | : 6205 C3        | 6204 C3       |
| Sealing              | : Inpro/Seal     | Inpro/Seal    |
| Lubrication interval | : 20000 h        | 20000 h       |
| Lubricant amount     | : 4 g            | 4 g           |
| Lubricant type       | Mobil Polyrex EM |               |

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (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   |                 |           |         |          |
| Date         | 24/07/2026      |           |         |          |
|              |                 |           | Page    | Revision |
|              |                 |           | 1 / 2   |          |

# LOAD PERFORMANCE CURVE

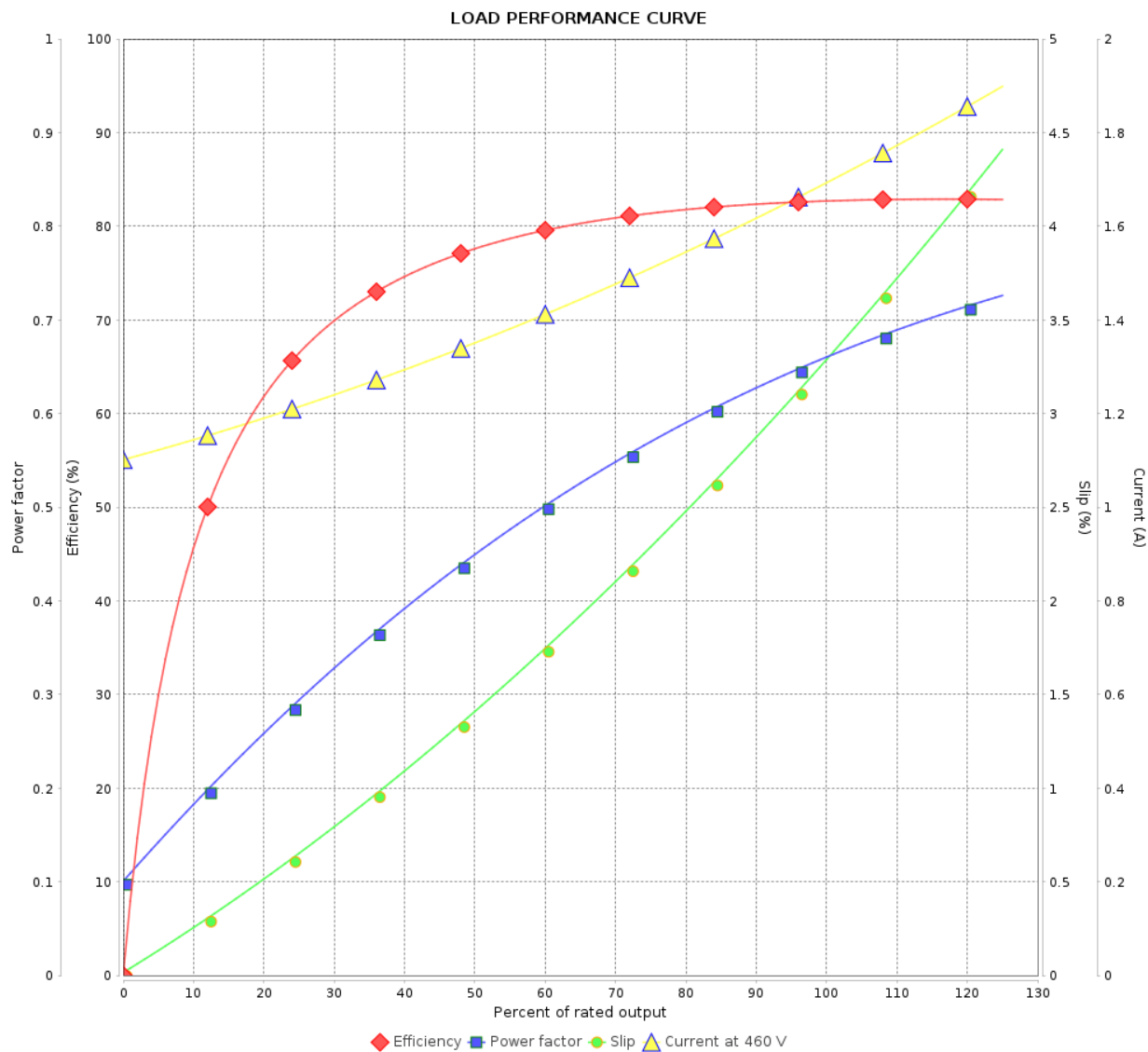
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Efficiency Three-Phase

Product code : 19322053



Performance : 460 V 60 Hz 6P

Rated current : 1.73 A  
LRC : 6.2  
Rated torque : 0.626 kgfm  
Locked rotor torque : 260 %  
Breakdown torque : 300 %  
Rated speed : 1160 rpm

Moment of inertia (J) : 0.0067 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor : 1.25  
Temperature rise : 80 K  
Design : B

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|              |                 |  |           |                       |      |
| Performed by |                 |  |           | Page<br>2 / 2Revision |      |
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