

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase Product code : 14154360

|                       |                           |                             |                       |
|-----------------------|---------------------------|-----------------------------|-----------------------|
| Frame                 | : 213/5T                  | Locked rotor time           | : 10s (cold) 6s (hot) |
| Output                | : 10 HP (7.5 kW)          | Temperature rise            | : 80 K                |
| Poles                 | : 4                       | Duty cycle                  | : Cont.(S1)           |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C      |
| Rated voltage         | : 208-230/460 V           | Altitude                    | : 1000 m.a.s.l.       |
| Rated current         | : 44.5-40.8/20.4 A        | Protection degree           | : IP55                |
| L. R. Amperes         | : 298-273/137 A           | Cooling method              | : IC411 - TEFC        |
| LRC                   | : 6.7x(Code G)            | Mounting                    | : F-1                 |
| No load current       | : 9.66-11.2/5.60 A        | Rotation <sup>1</sup>       | : Both (CW and CCW)   |
| Rated speed           | : 1740 rpm                | Noise level <sup>2</sup>    | : 63.0 dB(A)          |
| Slip                  | : 3.33 %                  | Starting method             | : Direct On Line      |
| Rated torque          | : 4.17 kgfm               | Approx. weight <sup>3</sup> | : 87.0 kg             |
| Locked rotor torque   | : 260 %                   |                             |                       |
| Breakdown torque      | : 240 %                   |                             |                       |
| Insulation class      | : F                       |                             |                       |
| Service factor        | : 1.15                    |                             |                       |
| Moment of inertia (J) | : 0.0486 kgm <sup>2</sup> |                             |                       |

|                |      |      |      |                  |           |
|----------------|------|------|------|------------------|-----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |           |
| Efficiency (%) | 77.9 | 82.5 | 84.0 | Max. traction    | : 141 kgf |
| Power Factor   | 0.92 | 0.94 | 0.95 | Max. compression | : 228 kgf |

|                      |   |                  |                      |
|----------------------|---|------------------|----------------------|
|                      |   | <u>Drive end</u> | <u>Non drive end</u> |
| Bearing type         | : | 6308 ZZ          | 6206 ZZ              |
| Sealing              | : | V'Ring           | V'Ring               |
| Lubrication interval | : | -                | -                    |
| Lubricant amount     | : | -                | -                    |
| 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 |                 | Page Revision<br>1 / 2 |         |      |
| Checked by   |                 |                        |         |      |
| Date         | 27/10/2024      |                        |         |      |

# LOAD PERFORMANCE CURVE

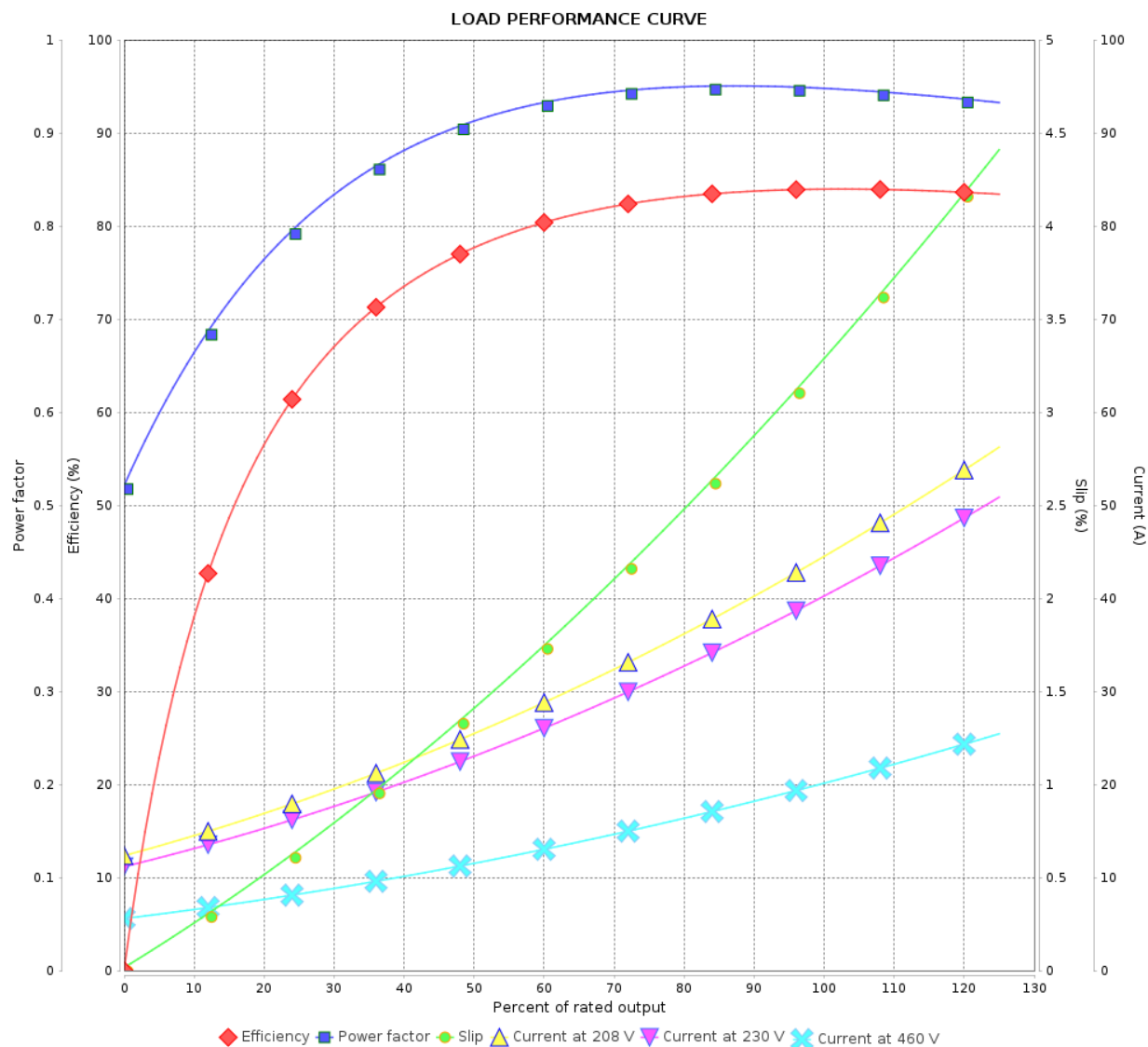
## Single Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : W22 Single-Phase

Product code : 14154360



Performance : 208-230/460 V 60 Hz 4P

Rated current : 44.5-40.8/20.4 A  
LRC : 6.7  
Rated torque : 4.17 kgfm  
Locked rotor torque : 260 %  
Breakdown torque : 240 %  
Rated speed : 1740 rpm

Moment of inertia (J) : 0.0486 kgm<sup>2</sup>  
Duty cycle : Cont.(S1)  
Insulation class : F  
Service factor :  
Temperature rise : 80 K

| Rev.         | Changes Summary |  | Performed | Checked | Date     |
|--------------|-----------------|--|-----------|---------|----------|
|              |                 |  |           |         |          |
| Performed by |                 |  |           | Page    | Revision |
| Checked by   |                 |  |           | 2 / 2   |          |
| Date         |                 |  |           |         |          |

