

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase Product code : 10360047

|                       |                           |                             |                        |
|-----------------------|---------------------------|-----------------------------|------------------------|
| Frame                 | : E143/5T                 | Locked rotor time           | : 27s (cold) 15s (hot) |
| Output                | : 2 HP (1.5 kW)           | Temperature rise            | : 80 K                 |
| Poles                 | : 4                       | Duty cycle                  | : Cont.(S1)            |
| Frequency             | : 60 Hz                   | Ambient temperature         | : -20°C to +40°C       |
| Rated voltage         | : 230/460 V               | Altitude                    | : 1000 m.a.s.l.        |
| Rated current         | : 5.80/2.90 A             | Protection degree           | : IP21                 |
| L. R. Amperes         | : 47.6/23.8 A             | Cooling method              | : IC01 - ODP           |
| LRC                   | : 8.2x(Code L)            | Mounting                    | : F-1                  |
| No load current       | : 3.20/1.60 A             | Rotation <sup>1</sup>       | : Both (CW and CCW)    |
| Rated speed           | : 1730 rpm                | Noise level <sup>2</sup>    | : 52.0 dB(A)           |
| Slip                  | : 3.89 %                  | Starting method             | : Direct On Line       |
| Rated torque          | : 0.839 kgfm              | Approx. weight <sup>3</sup> | : 19.7 kg              |
| Locked rotor torque   | : 350 %                   |                             |                        |
| Breakdown torque      | : 330 %                   |                             |                        |
| Insulation class      | : F                       |                             |                        |
| Service factor        | : 1.15                    |                             |                        |
| Moment of inertia (J) | : 0.0067 kgm <sup>2</sup> |                             |                        |
| Design                | : B                       |                             |                        |

|                |      |      |      |                  |          |
|----------------|------|------|------|------------------|----------|
| Output         | 50%  | 75%  | 100% | Foundation loads |          |
| Efficiency (%) | 82.5 | 85.5 | 86.5 | Max. traction    | : 69 kgf |
| Power Factor   | 0.58 | 0.70 | 0.78 | Max. compression | : 89 kgf |

|                      |   |                      |                      |
|----------------------|---|----------------------|----------------------|
|                      |   | <u>Drive end</u>     | <u>Non drive end</u> |
| Bearing type         | : | 6205 ZZ              | 6204 ZZ              |
| Sealing              | : | Without Bearing Seal | Without Bearing Seal |
| Lubrication interval | : | -                    | -                    |
| Lubricant amount     | : | -                    | -                    |
| Lubricant type       | : | Mobil Polyrex EM     |                      |

Notes  
USABLE @208V 5.95A SF 1.00 SFA 5.95A

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<br>1 / 2<br>Revision |         |      |
| Checked by   |                 |                           |         |      |
| Date         | 19/10/2024      |                           |         |      |

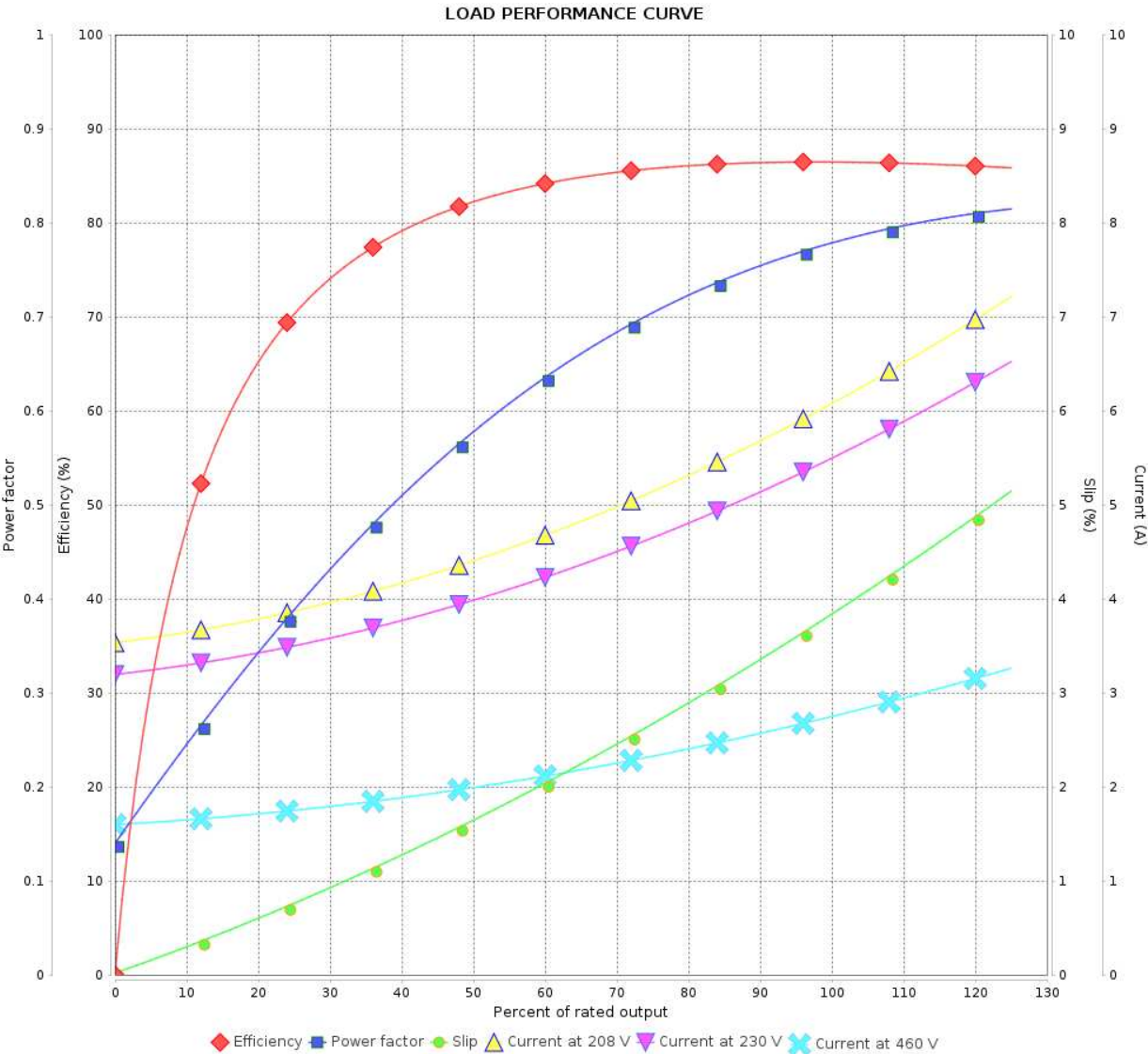
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : General NEMA Premium Efficiency Three-Phase      Product code : 10360047



Performance : 230/460 V 60 Hz 4P

Rated current : 5.80/2.90 A  
LRC : 8.2  
Rated torque : 0.839 kgfm  
Locked rotor torque : 350 %  
Breakdown torque : 330 %  
Rated speed : 1730 rpm

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

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

E