

# DATA SHEET



## Single Phase Induction Motor - Squirrel Cage

|  |                           |                  |  |                       |         |          |
|--|---------------------------|------------------|--|-----------------------|---------|----------|
| Customer :   |                           |                  |  |                       |         |          |
| Product line : General Single-Phase  |                           |                  | Product code : 10084782  |                       |         |          |
| Frame  | : B56                     |                  | Locked rotor time  | : 10s (cold) 6s (hot) |         |          |
| Output   | : 0.5 HP (0.37 kW)        |                  | Temperature rise   | : 80 K                |         |          |
| Poles  | : 2                       |                  | Duty cycle   | : Cont.(S1)           |         |          |
| Frequency  | : 60 Hz                   |                  | Ambient temperature  | : -20°C to +40°C      |         |          |
| Rated voltage  | : 115/208-230 V           |                  | Altitude   | : 1000 m.a.s.l.       |         |          |
| Rated current  | : 7.60/3.80-3.80 A        |                  | Protection degree  | : IP55                |         |          |
| L. R. Amperes  | : 42.6/21.3-21.3 A        |                  | Cooling method   | : IC411 - TEFC        |         |          |
| LRC  | : 5.6x(Code L)            |                  | Mounting   | : F-1                 |         |          |
| No load current  | : 5.60/2.41-2.80 A        |                  | Rotation <sup>1</sup>  | : Both (CW and CCW)   |         |          |
| Rated speed  | : 3480 rpm                |                  | Noise level <sup>2</sup>   | : 55.0 dB(A)          |         |          |
| Slip   | : 3.33 %                  |                  | Starting method  | : Direct On Line      |         |          |
| Rated torque   | : 0.104 kgfm              |                  | Approx. weight <sup>3</sup>  | : 10.4 kg             |         |          |
| Locked rotor torque  | : 320 %                   |                  |  |                       |         |          |
| Breakdown torque   | : 280 %                   |                  |  |                       |         |          |
| Insulation class   | : B                       |                  |  |                       |         |          |
| Service factor   | : 1.15                    |                  |  |                       |         |          |
| Moment of inertia (J)  | : 0.0013 kgm <sup>2</sup> |                  |  |                       |         |          |
| Output   | 25%                       | 50%              | 75%  | 100%                  |         |          |
| Efficiency (%)   | 41.2                      | 45.0             | 52.0   | 58.0                  |         |          |
| Power Factor   | 0.33                      | 0.56             | 0.66   | 0.73                  |         |          |
| Foundation loads   |                           |                  |  |                       |         |          |
| Max. traction : 4 kgf  |                           |                  |  |                       |         |          |
| Max. compression : 14 kgf  |                           |                  |  |                       |         |          |
|  |                           | <u>Drive end</u> |  | <u>Non drive end</u>  |         |          |
| Bearing type   | :                         | 6203 ZZ          |  | 6202 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.<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 |
| Date   | 14/01/2024                |                  |  |                       | 1 / 2   |          |

# LOAD PERFORMANCE CURVE

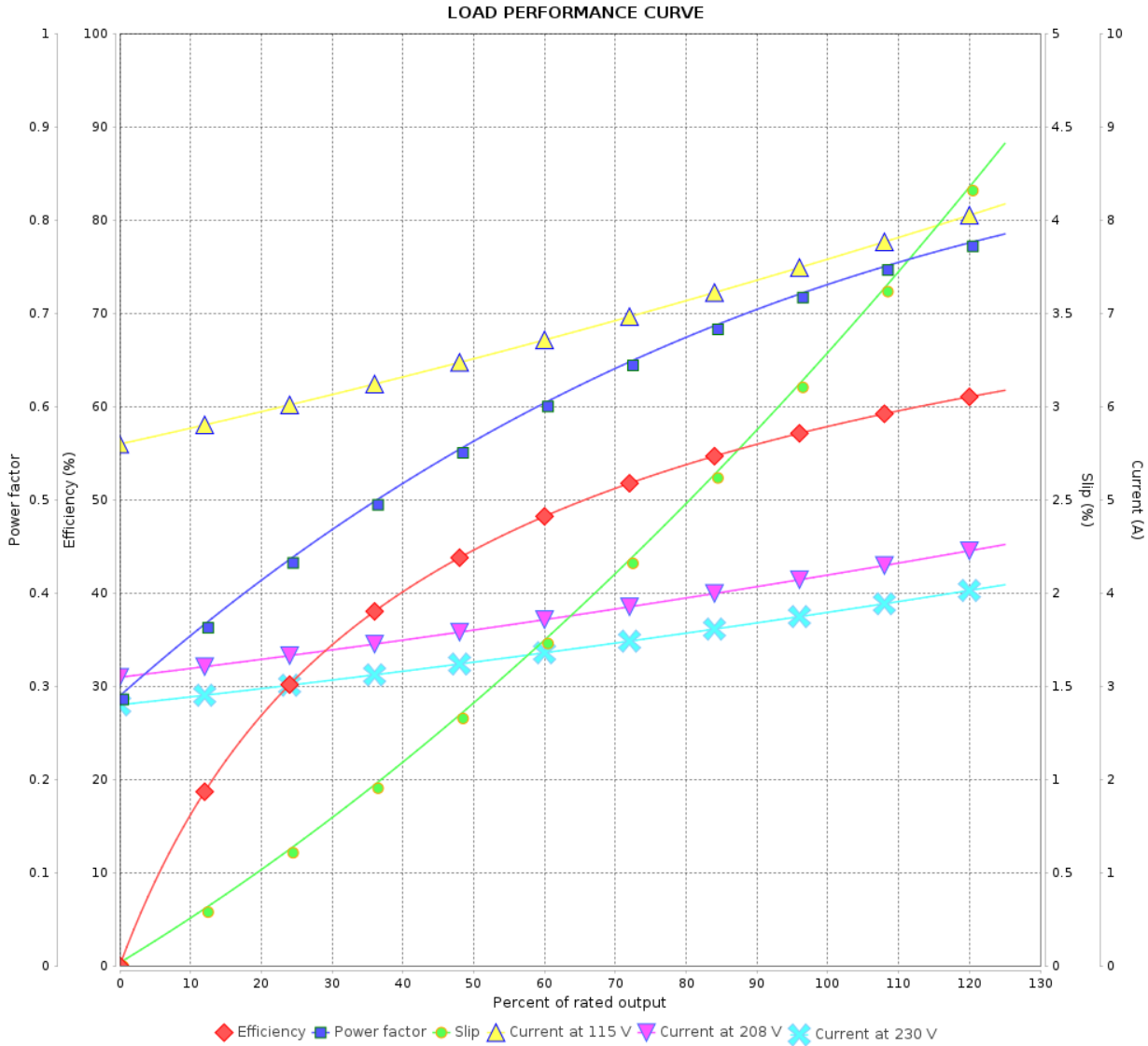
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : General Single-Phase

Product code : 10084782



Performance : 115/208-230 V 60 Hz 2P

Rated current : 7.60/3.80-3.80 A  
 LRC : 5.6  
 Rated torque : 0.104 kgfm  
 Locked rotor torque : 320 %  
 Breakdown torque : 280 %  
 Rated speed : 3480 rpm

Moment of inertia (J) : 0.0013 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : B  
 Service factor :  
 Temperature rise : 80 K

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