

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



|  |   |           |         |          |
|--|---|-----------|---------|----------|
| Customer :   |   |           |         |          |
| Product line   | : Single-Phase  |           |         |          |
| Product code :   | 13386542  |           |         |          |
| Frame  | : 56C   |           |         |          |
| Insulation class   | : F   |           |         |          |
| Duty cycle   | : Cont.(S1)   |           |         |          |
| Ambient temperature  | : -20°C to +40°C  |           |         |          |
| Altitude   | : 1000 m.a.s.l.   |           |         |          |
| Protection degree  | : IP55  |           |         |          |
| Design   | : N   |           |         |          |
| Cooling method   | : IC411 - TEFC  |           |         |          |
| Mounting   | : F-1   |           |         |          |
| Rotation <sup>1</sup>  | : Both (CW and CCW)                                     |           |         |          |
| Starting method  | : Direct On Line  |           |         |          |
| Approx. weight <sup>3</sup>  | : 12.9 kg   |           |         |          |
| Moment of inertia (J)  | : 0.0017 kgm <sup>2</sup>                               |           |         |          |
| Output [HP]  | 0.75  |           |         |          |
| Poles  | 2   |           |         |          |
| Frequency [Hz]   | 60  |           |         |          |
| Rated voltage [V]  | 115/208-230   |           |         |          |
| Rated current [A]  | 8.00/4.42-4.00  |           |         |          |
| L. R. Amperes [A]  | 64.0/35.4-32.0  |           |         |          |
| LRC [A]  | 8.0x(Code L)  |           |         |          |
| No load current [A]  | 4.00/1.72-2.00  |           |         |          |
| Rated speed [RPM]  | 3500  |           |         |          |
| Slip [%]   | 2.78  |           |         |          |
| Rated torque [kgfm]  | 0.156   |           |         |          |
| Locked rotor torque [%]  | 280   |           |         |          |
| Breakdown torque [%]   | 290   |           |         |          |
| Service factor   |   |           |         |          |
| Temperature rise   | 80 K  |           |         |          |
| Locked rotor time  | 18s (cold) 10s (hot)                                    |           |         |          |
| Noise level <sup>2</sup>   | 68.0 dB(A)  |           |         |          |
| Efficiency (%)   | 25%   |           |         |          |
|  | 50%   | 52.0      |         |          |
|  | 75%   | 62.0      |         |          |
|  | 100%  | 66.0      |         |          |
| Power Factor   | 25%   |           |         |          |
|  | 50%   | 0.81      |         |          |
|  | 75%   | 0.87      |         |          |
|  | 100%  | 0.91      |         |          |
| Bearing type   | : <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ |           |         |          |
| Sealing  | : V'Ring V'Ring   |           |         |          |
| Lubrication interval   | : - -   |           |         |          |
| Lubricant amount   | : - -   |           |         |          |
| Lubricant type   | : Mobil Polyrex EM                                      |           |         |          |
| Foundation loads   | Max. traction : 7 kgf                                   |           |         |          |
|  | Max. compression : 20 kgf                               |           |         |          |
| 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   | 13/05/2022  |           | 1 / 2   |          |

# LOAD PERFORMANCE CURVE

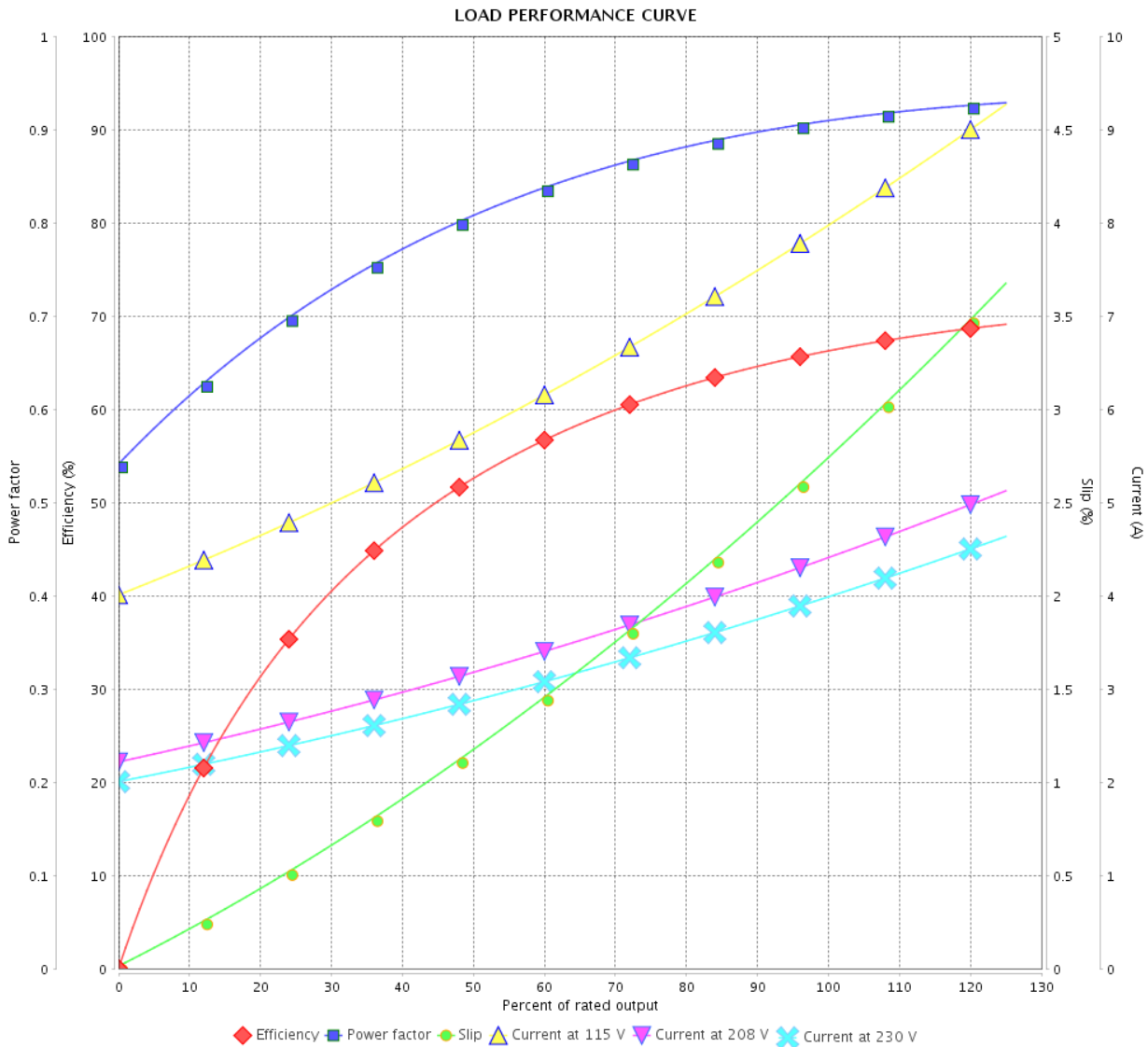
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Single-Phase

Product code : 13386542



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

Rated current : 8.00/4.42-4.00 A  
 LRC : 8.0  
 Rated torque : 0.156 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 290 %  
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0017 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor :  
 Temperature rise : 80 K  
 Design : N

| Rev.         | Changes Summary | Performed | Checked | Date     |
|--------------|-----------------|-----------|---------|----------|
|              |                 |           |         |          |
| Performed by |                 | Page      |         | Revision |
| Checked by   |                 | 2 / 2     |         |          |
| Date         | 13/05/2022      |           |         |          |