

# DATA SHEET

## Single Phase Induction Motor - Squirrel Cage



|  |   |  |         |          |
|--|---|--|---------|----------|
| Customer   | :   |  |         |          |
| Product line   | : Single-Phase  | Product code : 13505067  |         |          |
| Frame  | : W56C  | Cooling method : IC01 - ODP  |         |          |
| Insulation class   | : F   | Mounting : F-1   |         |          |
| Duty cycle   | : Cont.(S1)   | Rotation <sup>1</sup> : Both (CW and CCW)  |         |          |
| Ambient temperature  | : -20°C to +40°C  | Starting method : Direct On Line   |         |          |
| Altitude   | : 1000 m.a.s.l.   | Approx. weight <sup>2</sup> : 9.4 kg   |         |          |
| Design   | : N   | Moment of inertia (J) : 0.0010 kgm <sup>2</sup>  |         |          |
| Output [HP]  |   | 0.5  |         |          |
| Poles  |   | 2  |         |          |
| Frequency [Hz]   |   | 60   |         |          |
| Rated voltage [V]  |   | 115/208-230  |         |          |
| Rated current [A]  |   | 6.68/3.69-3.34   |         |          |
| L. R. Amperes [A]  |   | 54.8/30.3-27.4   |         |          |
| LRC [A]  |   | 8.2x(Code M)   |         |          |
| No load current [A]  |   | 4.60/1.98-2.30   |         |          |
| Rated speed [RPM]  |   | 3500   |         |          |
| Slip [%]   |   | 2.78   |         |          |
| Rated torque [kgfm]  |   | 0.104  |         |          |
| Locked rotor torque [%]  |   | 280  |         |          |
| Breakdown torque [%]   |   | 300  |         |          |
| Service factor   |   |  |         |          |
| Temperature rise   |   | 80 K   |         |          |
| Locked rotor time  |   | 10s (cold) 6s (hot)  |         |          |
| Noise level <sup>2</sup>   |   | 56.0 dB(A)   |         |          |
| Efficiency (%)   | 25%   |  |         |          |
|  | 50%   | 54.0   |         |          |
|  | 75%   | 61.0   |         |          |
|  | 100%  | 65.0   |         |          |
| Power Factor   | 25%   |  |         |          |
|  | 50%   | 0.55   |         |          |
|  | 75%   | 0.66   |         |          |
|  | 100%  | 0.74   |         |          |
| Bearing type   | : <u>Drive end</u> 6203 ZZ <u>Non drive end</u> 6202 ZZ | Foundation loads   |         |          |
| Sealing  | : Without Without<br>Bearing Seal Bearing Seal          | Max. traction : 5 kgf<br>Max. compression : 14 kgf   |         |          |
| 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   | 17/05/2022  |  | 1 / 2   |          |

# LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

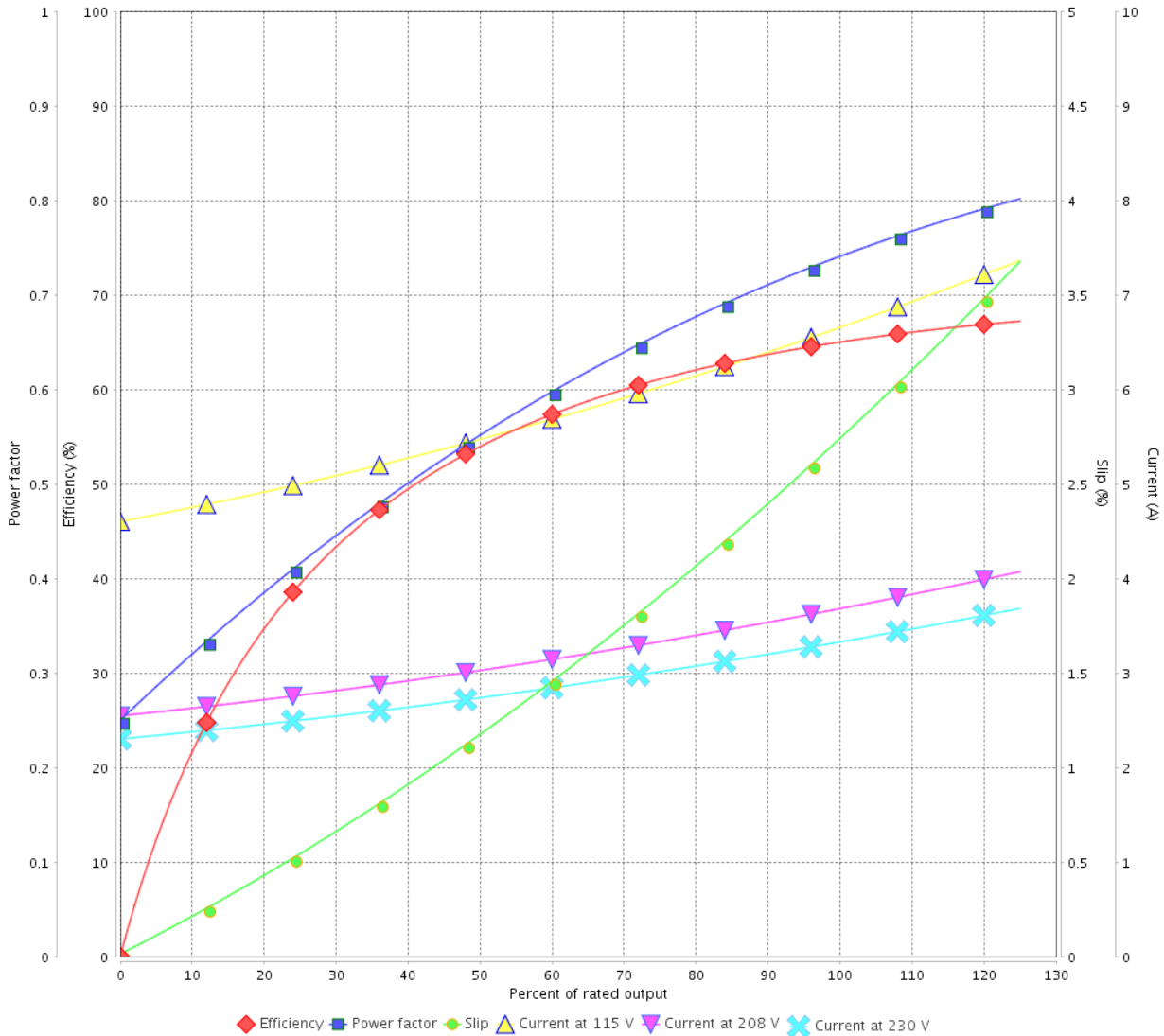


Customer :

Product line : Single-Phase

Product code : 13505067

LOAD PERFORMANCE CURVE



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

Rated current : 6.68/3.69-3.34 A  
 LRC : 8.2  
 Rated torque : 0.104 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 300 %  
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0010 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<br>2 / 2 | Revision |
| Checked by   |                 |           |               |          |
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