

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|  |                                   |                             |  |          |          |
|--|-----------------------------------|-----------------------------|--|----------|----------|
| Customer   | :                                 |                             |  |          |          |
| Product line   | : Standard Efficiency Three-Phase | Product code :              | 12894767   |          |          |
| Frame  | : 56HC                            | Cooling method              | : IC411 - TEFC   |          |          |
| 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>3</sup> | : 15.1 kg  |          |          |
| Protection degree  | : IP55                            | Moment of inertia (J)       | : 0.0044 kgm <sup>2</sup>  |          |          |
| Design   | : A                               |                             |  |          |          |
| Output [HP]  | 1.5                               |                             |  |          |          |
| Poles  | 4                                 |                             |  |          |          |
| Frequency [Hz]   | 60                                |                             |  |          |          |
| Rated voltage [V]  | 575                               |                             |  |          |          |
| Rated current [A]  | 1.78                              |                             |  |          |          |
| L. R. Amperes [A]  | 13.4                              |                             |  |          |          |
| LRC [A]  | 7.5x(Code K)                      |                             |  |          |          |
| No load current [A]  | 1.20                              |                             |  |          |          |
| Rated speed [RPM]  | 1750                              |                             |  |          |          |
| Slip [%]   | 2.78                              |                             |  |          |          |
| Rated torque [kgfm]  | 0.622                             |                             |  |          |          |
| Locked rotor torque [%]  | 250                               |                             |  |          |          |
| Breakdown torque [%]   | 300                               |                             |  |          |          |
| Service factor   | 1.15                              |                             |  |          |          |
| Temperature rise   | 80 K                              |                             |  |          |          |
| Locked rotor time  | 16s (cold) 9s (hot)               |                             |  |          |          |
| Noise level <sup>2</sup>   | 52.0 dB(A)                        |                             |  |          |          |
| Efficiency (%)   | 25%                               | 75.4                        |  |          |          |
|  | 50%                               | 77.0                        |  |          |          |
|  | 75%                               | 80.0                        |  |          |          |
|  | 100%                              | 81.5                        |  |          |          |
| Power Factor   | 25%                               | 0.30                        |  |          |          |
|  | 50%                               | 0.54                        |  |          |          |
|  | 75%                               | 0.67                        |  |          |          |
|  | 100%                              | 0.76                        |  |          |          |
| Bearing type   | : Drive end                       | Non drive end               | Foundation loads   |          |          |
| Sealing  | : 6204 ZZ                         | 6202 ZZ                     | Max. traction  | : 52 kgf |          |
| Lubrication interval   | : V'Ring                          | Without                     | Max. compression   | : 67 kgf |          |
| Lubricant amount   |                                   | Bearing Seal                |  |          |          |
| 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   |                                   |                             |  |          |          |
| Date   | 13/05/2022                        |                             |  | Page     | Revision |
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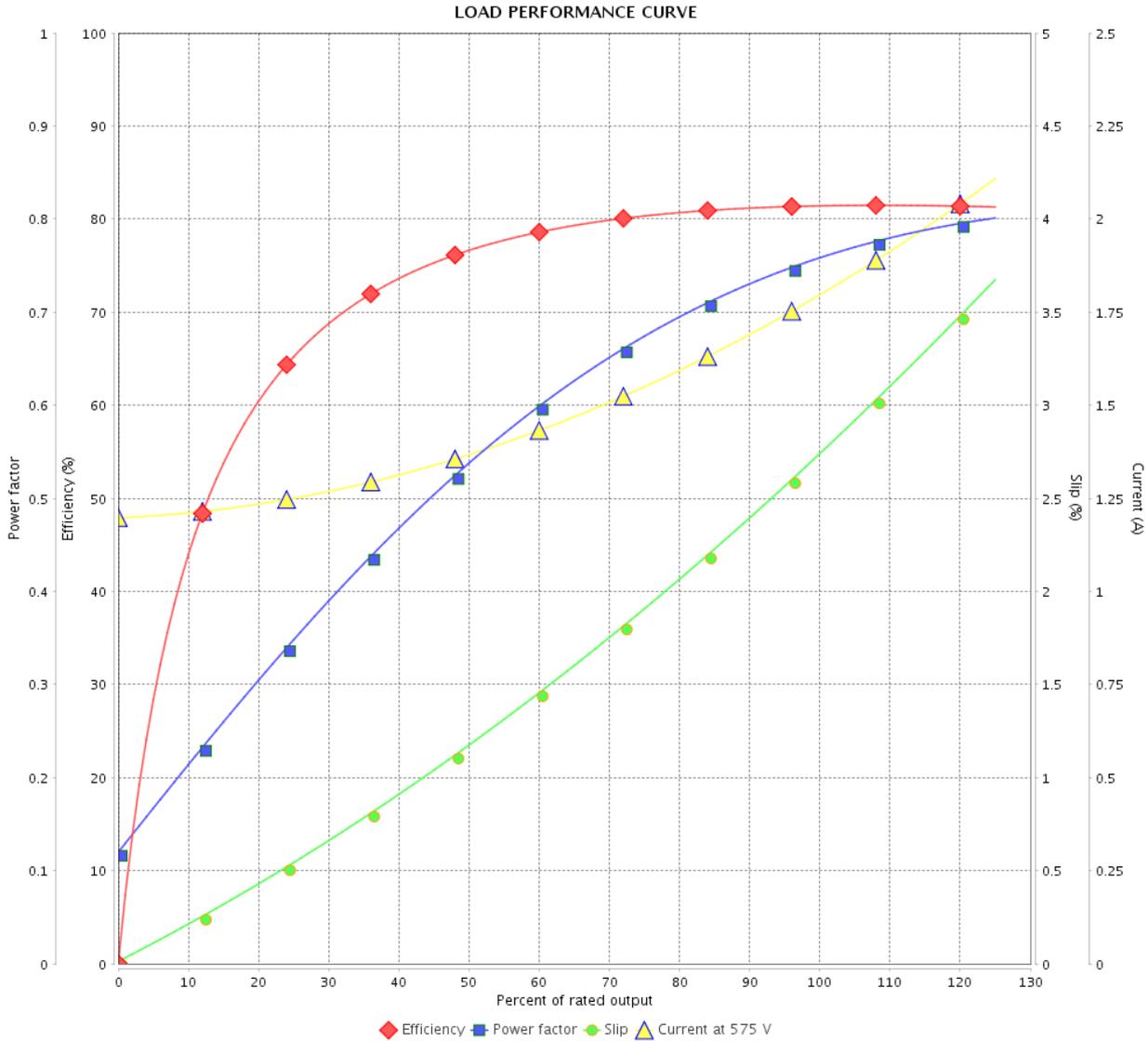
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

Product line : Standard Efficiency Three-Phase      Product code : 12894767



Performance : 575 V 60 Hz 4P

Rated current : 1.78 A  
 LRC : 7.5  
 Rated torque : 0.622 kgfm  
 Locked rotor torque : 250 %  
 Breakdown torque : 300 %  
 Rated speed : 1750 rpm

Moment of inertia (J) : 0.0044 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K  
 Design : A

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