

# DATA SHEET

## Three Phase Induction Motor - Squirrel Cage



|   |                      |                                   |   |          |
|---|----------------------|-----------------------------------|---|----------|
| Customer :  |                      |                                   |   |          |
| Product line  |                      | : Standard Efficiency Three-Phase | Product code :  | 12894831 |
| Frame   | : 56C                | 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>       | : 10.3 kg   |          |
| Protection degree   | : IP55               | Moment of inertia (J)             | : 0.0027 kgm <sup>2</sup>   |          |
| Output [HP]   | 0.75                 |                                   |   |          |
| Poles   | 4                    |                                   |   |          |
| Frequency [Hz]  | 60                   |                                   |   |          |
| Rated voltage [V]   | 575                  |                                   |   |          |
| Rated current [A]   | 0.976                |                                   |   |          |
| L. R. Amperes [A]   | 6.73                 |                                   |   |          |
| LRC [A]   | 6.9x(Code K)         |                                   |   |          |
| No load current [A]   | 0.720                |                                   |   |          |
| Rated speed [RPM]   | 1755                 |                                   |   |          |
| Slip [%]  | 2.50                 |                                   |   |          |
| Rated torque [kgfm]   | 0.310                |                                   |   |          |
| Locked rotor torque [%]   | 240                  |                                   |   |          |
| Breakdown torque [%]  | 300                  |                                   |   |          |
| Service factor  | 1.15                 |                                   |   |          |
| Temperature rise  | 80 K                 |                                   |   |          |
| Locked rotor time   | 30s (cold) 17s (hot) |                                   |   |          |
| Noise level <sup>2</sup>  | 52.0 dB(A)           |                                   |   |          |
| Efficiency (%)  | 25%                  | 70.4                              |   |          |
|   | 50%                  | 72.0                              |   |          |
|   | 75%                  | 77.0                              |   |          |
|   | 100%                 | 78.5                              |   |          |
| Power Factor  | 25%                  | 0.26                              |   |          |
|   | 50%                  | 0.48                              |   |          |
|   | 75%                  | 0.61                              |   |          |
|   | 100%                 | 0.72                              |   |          |
| Bearing type  | : Drive end 6203 ZZ  | Non drive end 6202 ZZ             | Foundation loads  |          |
| Sealing   | : V'Ring             | Without Bearing Seal              | Max. traction : 24 kgf  |          |
| Lubrication interval  | : -                  | -                                 | Max. compression : 35 kgf   |          |
| Lubricant amount  | : -                  | -                                 |   |          |
| Lubricant type  | : Mobil Polyrex EM   |                                   |   |          |
| Notes   |                      |                                   |   |          |
| <p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p> |                      |                                   | <p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p> |          |
| Rev.  | Changes Summary      |                                   | Performed   | Checked  |
|   |                      |                                   |   |          |
| Performed by  |                      |                                   |   |          |
| Checked by  |                      |                                   | Page  | Revision |
| Date  | 13/05/2022           |                                   | 1 / 2   |          |

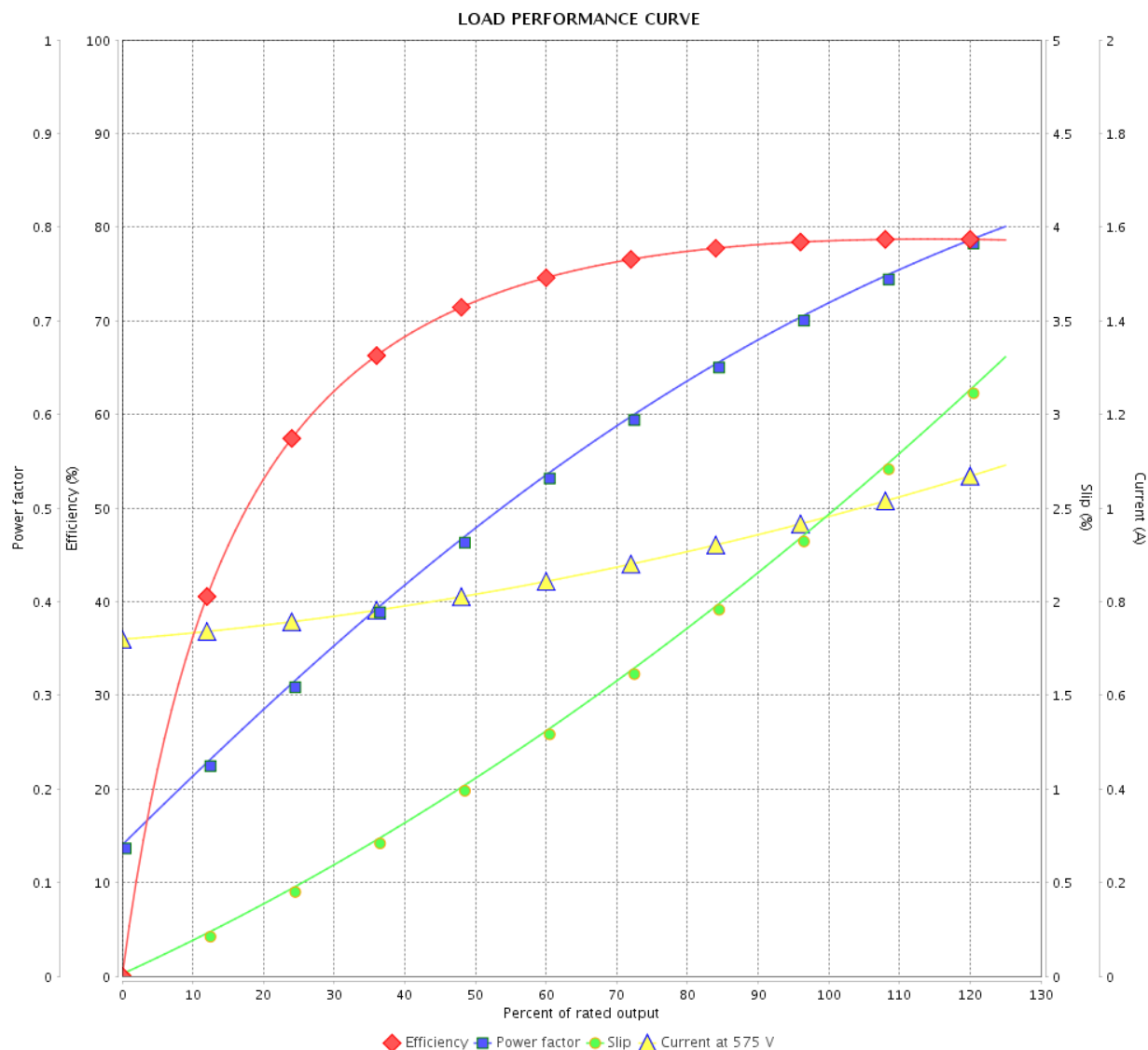
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 12894831



Performance : 575 V 60 Hz 4P

Rated current : 0.976 A  
 LRC : 6.9  
 Rated torque : 0.310 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 300 %  
 Rated speed : 1755 rpm

Moment of inertia (J) : 0.0027 kgm<sup>2</sup>  
 Duty cycle : Cont.(S1)  
 Insulation class : F  
 Service factor : 1.15  
 Temperature rise : 80 K

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

