

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



| | | | | |
|--|---|--|---------------------------|----------|
| Customer : | | | | |
| Product line | | : Jet Pump - J type Single-Phase | Product code : | 14744891 |
| Frame | : 56J | Cooling method | : IC01 - ODP | |
| Insulation class | : F | Mounting | : F-1 | |
| Duty cycle | : Cont.(S1) | Rotation ¹ | : CCW | |
| Ambient temperature | : -20°C to +40°C | Starting method | : Direct On Line | |
| Altitude | : 1000 m.a.s.l. | Approx. weight ³ | : 17.1 kg | |
| Design | : L | Moment of inertia (J) | : 0.0032 kgm ² | |
| Output [HP] | 2 | | | |
| Poles | 2 | | | |
| Frequency [Hz] | 60 | | | |
| Rated voltage [V] | 115/208-230 | | | |
| Rated current [A] | 16.8/9.29-8.40 | | | |
| L. R. Amperes [A] | 144/79.9-72.2 | | | |
| LRC [A] | 8.6x(Code K) | | | |
| No load current [A] | 4.40/1.90-2.20 | | | |
| Rated speed [RPM] | 3500 | | | |
| Slip [%] | 2.78 | | | |
| Rated torque [kgfm] | 0.415 | | | |
| Locked rotor torque [%] | 250 | | | |
| Breakdown torque [%] | 280 | | | |
| Service factor | | | | |
| Temperature rise | 80 K | | | |
| Locked rotor time | 14s (cold) 8s (hot) | | | |
| Noise level ² | 58.0 dB(A) | | | |
| Efficiency (%) | 25% | | | |
| | 50% | 76.0 | | |
| | 75% | 81.0 | | |
| | 100% | 82.9 | | |
| Power Factor | 25% | | | |
| | 50% | 0.90 | | |
| | 75% | 0.94 | | |
| | 100% | 0.94 | | |
| Bearing type | : <u>Drive end</u> 6203 2RS <u>Non drive end</u> 6202 2RS | Foundation loads | | |
| Sealing | : Without Bearing Seal Without Bearing Seal | Max. traction | : 28 kgf | |
| | | Max. compression | : 46 kgf | |
| Lubrication interval | : - | | | |
| Lubricant amount | : - | | | |
| Lubricant type | : Mobil Polyrex EM | | | |
| Notes | | | | |
| This revision replaces and cancel the previous one, which must be eliminated. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. (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 |
| | | | | |
| Performed by | | | | |
| Checked by | | | Page | Revision |
| Date | 17/05/2022 | | 1 / 2 | |

LOAD PERFORMANCE CURVE

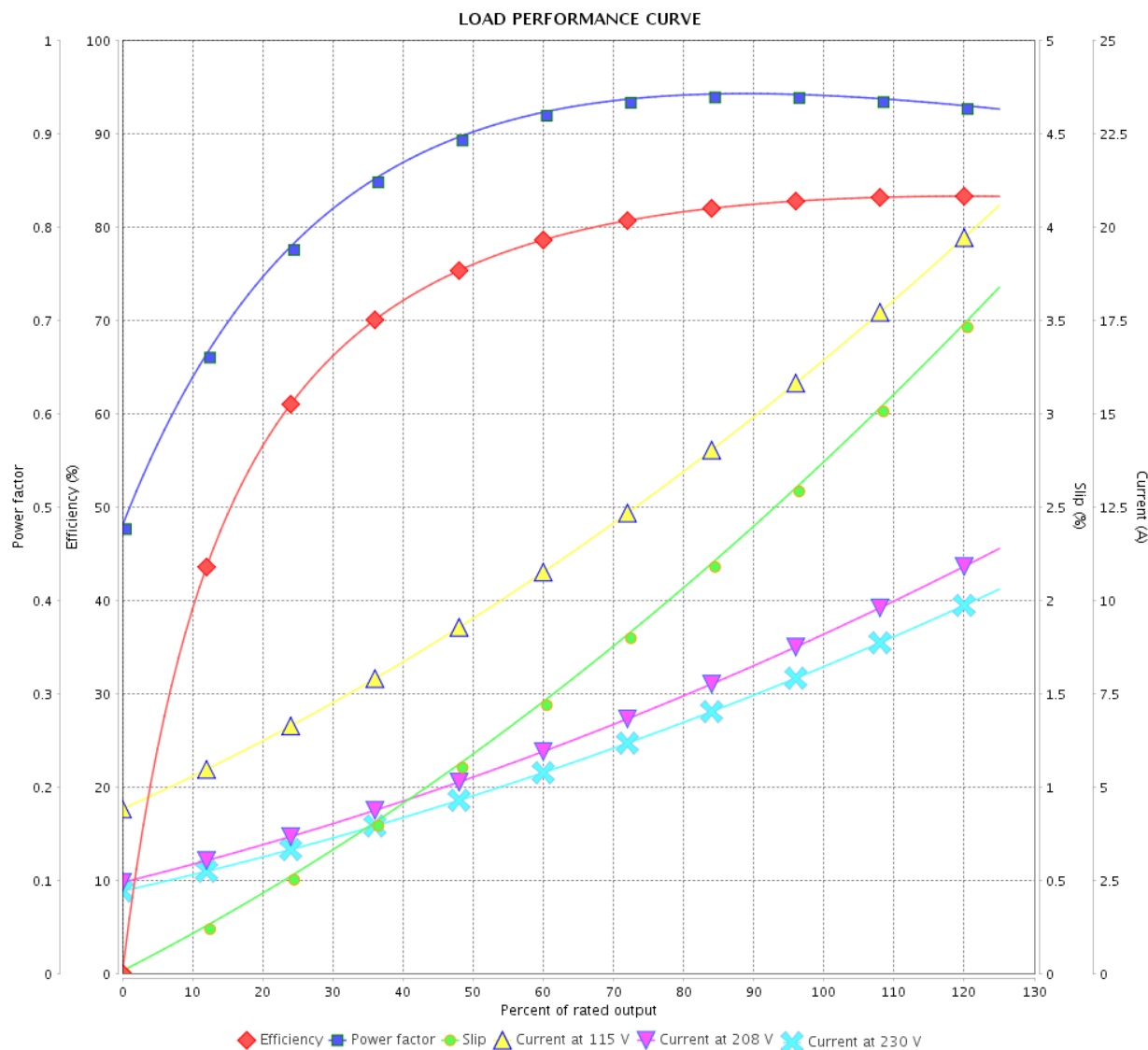
Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : Jet Pump - J type Single-Phase

Product code : 14744891



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

Rated current : 16.8/9.29-8.40 A
 LRC : 8.6
 Rated torque : 0.415 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 280 %
 Rated speed : 3500 rpm

Moment of inertia (J) : 0.0032 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : L

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| Checked by | | | | 2 / 2 | |
| Date | | | | | |

