DATA SHEET

Three Phase Induction Motor - Squirrel Cage



| Customer | | : | | |
|--------------------------|------|---------------------------|-----------------------------|----------------------|
| Product line | | : Three-Phase | Product code : | 13997241 |
| Frame | | : 56C | Cooling method | : IC01 - ODP |
| Insulation class | | : F | Mounting | : F-1 |
| Duty cycle | | : Cont.(S1) | Rotation ¹ | : Both (CW and CCW) |
| Ambient temperature | | : -20°C to +40°C | Starting method | : Direct On Line |
| Altitude | | : 1000 m.a.s.l. | Approx. weight ³ | : 12.4 kg |
| Design | | : A | Moment of inertia (J) | : 0.0036 kgm² |
| Output [HP] | | 1 | 1 | 1 |
| Poles | | 4 | 4 | 4 |
| Frequency [Hz] | | 60 | 50 | 50 |
| Rated voltage [V] | | 230/460 | 190/380 | 220/415 |
| Rated current [A] | | 3.14/1.57 | 3.54/1.77 | 3.34/1.77 |
| L. R. Amperes [A] | | 23.9/11.9 | 20.9/10.4 | 22.0/11.7 |
| LRC [A] | | 7.6x(Code L) | 5.9x(Code H) | 6.6x(Code K) |
| No load current [A] | | 2.20/1.10 | 2.09/1.05 | 2.42/1.28 |
| Rated speed [RPM | 1] | 1760 | 1440 | 1450 |
| Slip [%] | | 2.22 | 4.00 | 3.33 |
| Rated torque [kgfm] | | 0.412 | 0.504 | 0.501 |
| Locked rotor torque [%] | | 280 | 180 | 229 |
| Breakdown torque [%] | | 320 | 250 | 300 |
| Service factor | | | 1.15 | 1.15 |
| Temperature rise | | 80 K | 80 K | 80 K |
| Locked rotor time | | 30s (cold) 17s (hot) | 32s (cold) 18s (hot) | 27s (cold) 15s (hot) |
| Noise level ² | | 52.0 dB(A) | 49.0 dB(A) | 49.0 dB(A) |
| | 25% | | | |
| Efficiency (%) | 50% | 78.5 | 79.6 | 76.1 |
| Lincicity (70) | 75% | 82.5 | 81.4 | 79.9 |
| | 100% | 83.5 | 80.6 | 80.6 |
| | 25% | | | |
| Power Factor | 50% | 0.49 | 0.58 | 0.49 |
| 1 ower ractor | 75% | 0.63 | 0.72 | 0.64 |
| | 100% | 0.72 | 0.80 | 0.73 |
| | | Drive end Non drive end | Foundation loads | |
| Bearing type | | : 6204 ZZ 6202 ZZ | Max. traction | : 42 kgf |
| Sealing | | : Without Without | Max. compression | : 54 kgf |
| | | Bearing Seal Bearing Seal | | - |
| Lubrication interval | | : | | |
| Lubricant amount | | : | | |
| Lubricant type | | : Mobil Polyrex EM | | |
| Notes | | | | |

USABLE @208V 3.47A SF 1.00 SFA 3.47A

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 | Date |
| | | | | | |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |
| Date | 11/05/2022 | 1 | | 1/4 | |

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



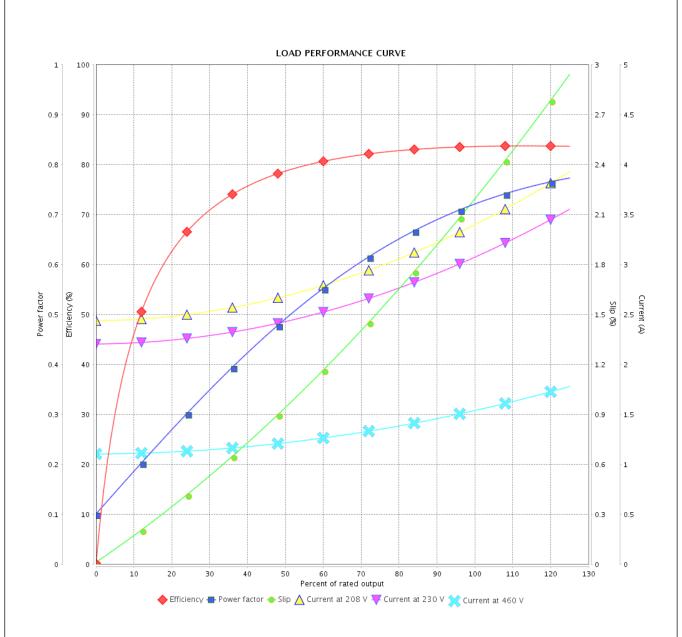
Customer :

Checked by

Date

11/05/2022

Product line : Three-Phase Product code : 13997241



| Performance | : 230/460 V 60 Hz 4P | | | | |
|--|--|--|-----------|---|------|
| Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed | : 3.14/1.57 A : 7.6 : 0.412 kgfm : 280 % : 320 % : 1760 rpm | Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design | | : 0.0036 kgm² : Cont.(S1) : F : : 80 K : A | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | |

Page

2/4

Revision

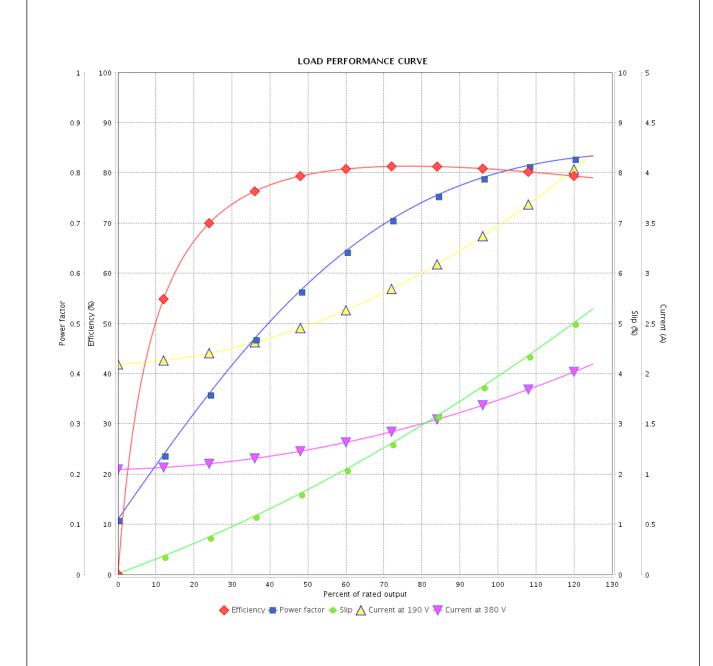
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase Product code : 13997241



| Performance | : 19 | 90/380 V 50 Hz 4P | | | | |
|---|--|-------------------|---------------------|--|---------|----------|
| Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed | : 5.9 Duty cycle d torque : 0.504 kgfm Insulation class ed rotor torque : 180 % Service factor kdown torque : 250 % Temperature rise | | e class actor | : 0.0036 kgm² : Cont.(S1) : F : 1.15 : 80 K : A | 2 | |
| Rev. | | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | | |
| Checked by | | | | | Page | Revision |
| Date | 11/05/2022 | - | | | 3/4 | |

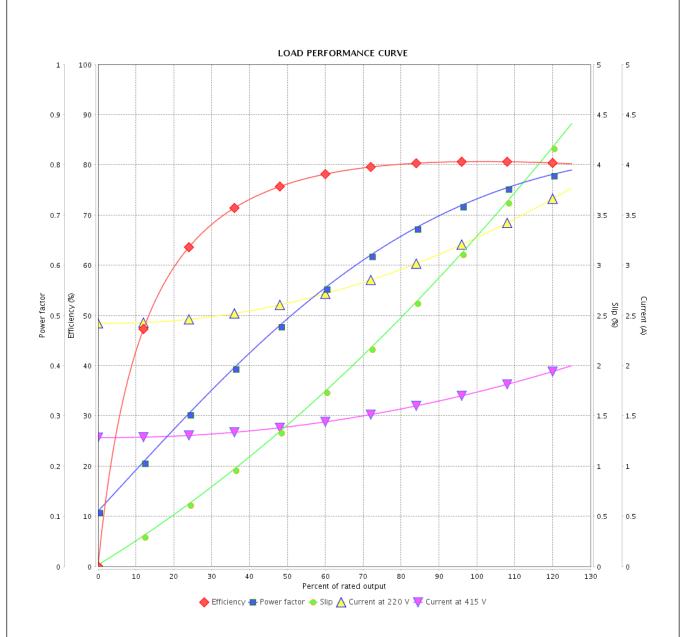
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



| _ | |
|----------|--|
| Customer | |
| Customer | |

Product line : Three-Phase Product code : 13997241



| Performance | : 220/415 V 50 Hz 4P | | | | |
|---|----------------------|---------------------|--|---------|----------|
| tated current : 3.34/1.77 A Moment of inertia (J) RC : 6.6 Duty cycle tated torque : 0.501 kgfm Insulation class ocked rotor torque : 229 % Service factor reakdown torque : 300 % Temperature rise tated speed : 1450 rpm Design | | e class actor | : 0.0036 kgm² : Cont.(S1) : F : 1.15 : 80 K : A | | |
| Rev. | Changes Summary | | Performed | Checked | Date |
| Performed by | | | | | |
| Checked by | | | | Page | Revision |

4/4

11/05/2022

Date

