DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Three-Phase Product code: 13702735 : IC01 - ODP Frame : 56HC Cooling method Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 17.4 kg Design Moment of inertia (J) : 0.0049 kgm² : A Output [HP] 2 2 2 Poles 4 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 220/415 190/380 Rated current [A] 5.38/2.69 6.52/3.26 5.79/3.07 L. R. Amperes [A] 41.4/20.7 36.5/18.3 38.8/20.6 LRC [A] 7.7x(Code K) 5.6x(Code G) 6.7x(Code J) No load current [A] 2.75/1.38 2.70/1.35 3.08/1.63 Rated speed [RPM] 1740 1410 1430 Slip [%] 3.33 6.00 4.67 Rated torque [kgfm] 0.834 1.03 1.02 Locked rotor torque [%] 260 200 250 Breakdown torque [%] 320 229 280 Service factor 1.00 1.00 80 K Temperature rise 105 K 80 K 28s (cold) 16s (hot) Locked rotor time 30s (cold) 17s (hot) 27s (cold) 15s (hot) Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 85.9 85.5 84.6 Efficiency (%) 75% 86.5 85.0 85.2 100% 86.5 82.2 83.8 25% 50% 0.61 0.69 0.61 Power Factor 75% 0.74 0.80 0.74 100% 0.81 0.85 0.81 Drive end Non drive end Foundation loads Bearing type 6204 ZZ 6202 ZZ Max. traction : 83 kgf Sealing : 100 kgf Without Without Max. compression Bearing Seal Bearing Seal Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 5.95A SF 1.00 SFA 5.95A

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.

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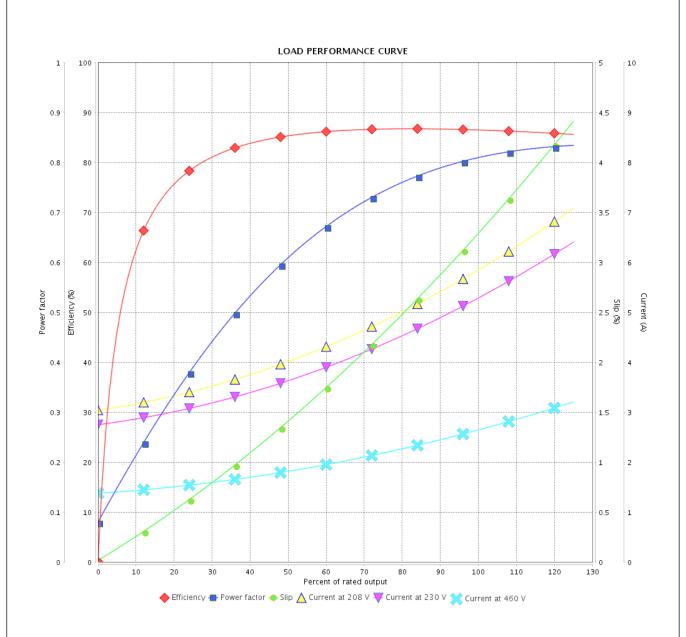
LOAD PERFORMANCE CURVE

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| Customer | |
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Product line : Three-Phase Product code : 13702735



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|-------------------|----------|-------------------|------------|------------------|---------------------------|----------|--|
| Performance | : 2: | 30/460 V 60 Hz 4P | | | | | |
| Rated current | : 5. | .38/2.69 A | Moment of | f inertia (J) | : 0.0049 kgm ² | 2 | |
| LRC | : 7. | .7 | Duty cycle | ; | : Cont.(S1) | | |
| Rated torque | : 0. | .834 kgfm | Insulation | Insulation class | | : F ` ´ | |
| Locked rotor tord | que : 20 | 60 % | Service fa | ctor | : | | |
| Breakdown torqu | ue : 32 | 20 % | Temperat | ure rise | : 80 K | | |
| Rated speed | : 1 | 740 rpm | Design | | : A | | |
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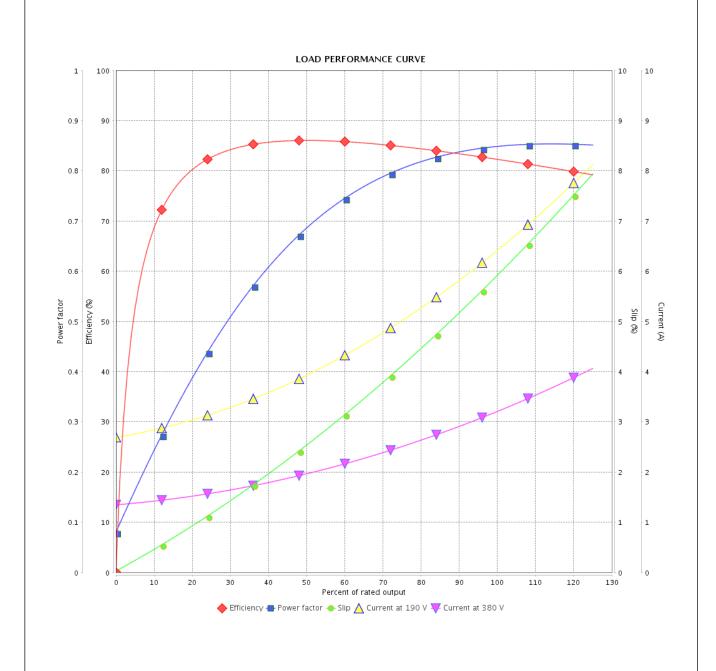
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Three-Phase Product code : 13702735



| Performance | | : 190/380 V 50 Hz | : 4P | | | |
|-------------------|-----|-------------------|------------|----------------|--------------|----------------|
| Rated current | | : 6.52/3.26 A | | of inertia (J) | : 0.0049 kgm | l ² |
| LRC | | : 5.6 | Duty cyc | | : Cont.(S1) | |
| Rated torque | | : 1.03 kgfm | Insulation | n class | : F | |
| Locked rotor tord | que | : 200 % | Service f | actor | : 1.00 | |
| Breakdown torqu | ue | : 229 % | Tempera | ture rise | : 105 K | |
| Rated speed | | : 1410 rpm | Design | | : A | |
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| rated speed | . ' | 410 Ipili | Design | | . / \ | |
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Three Phase Induction Motor - Squirrel Cage



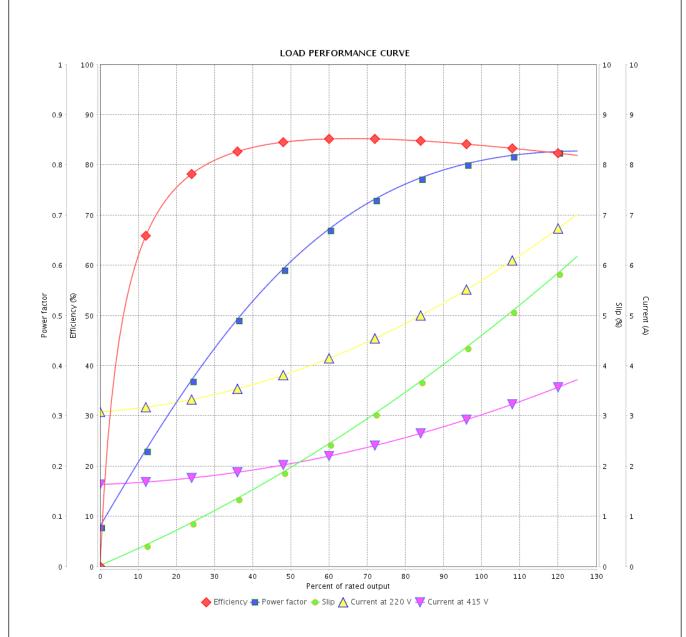
Customer :

Checked by

Date

17/05/2022

Product line : Three-Phase Product code : 13702735



| Rated current : 5.79/3.07 A Moment of inertia (J) : 0.0049 kgm² LRC : 6.7 Duty cycle : Cont.(S1) Rated torque : 1.02 kgfm Insulation class : F Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1430 rpm Design : A Rev. Changes Summary Performed Checked D Performed by | Performance | : 220/415 V 50 Hz 4P | : 220/415 V 50 Hz 4P | | | | | | |
|---|--|--|---|-----------|--|------|--|--|--|
| | LRC Rated torque Locked rotor torque Breakdown torque | : 6.7 : 1.02 kgfm : 250 % : 280 % | Duty cycle Insulation of Service factorics Temperatu | class | : Cont.(S1) : F : 1.00 : 80 K | | | | |
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Revision