DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : Premium Efficiency Three-Phase Product code: 13989586 : W56C Frame Cooling method : IC01 - ODP 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 : 8.8 kg Moment of inertia (J) : 0.0019 kgm² Output [HP] 0.5 0.5 0.5 Poles 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 415 208-230/460 190-220/380 Rated current [A] 1.75-1.58/0.789 1.86-1.60/0.928 0.892 L. R. Amperes [A] 8.91-7.69/4.45 4.91 11.2-10.1/5.05 LRC [A] 5.5x(Code H) 6.4x(Code K) 4.8x(Code G) No load current [A] 0.919-1.07/0.533 1.05-0.907/0.525 0.608 Rated speed [RPM] 1400 1420 1735 Slip [%] 5.33 3.61 6.67 Rated torque [kgfm] 0.209 0.259 0.256 Locked rotor torque [%] 250 180 220 Breakdown torque [%] 320 210 260 Service factor 1.15 1.15 80 K 80 K 80 K Temperature rise 46s (cold) 26s (hot) Locked rotor time 41s (cold) 23s (hot) 39s (cold) 22s (hot) Noise level² 50.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 72.0 70.0 69.0 Efficiency (%) 75% 75.5 73.0 73.0 100% 78.5 73.0 74.0 25% 50% 0.53 0.62 0.55 Power Factor 75% 0.66 0.75 0.69 100% 0.75 0.83 0.78 Drive end Non drive end Foundation loads Bearing type 6203 ZZ 6202 ZZ Max. traction : 17 kgf Sealing Without Without Max. compression : 25 kgf Bearing Seal Bearing Seal Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V SF 1.00

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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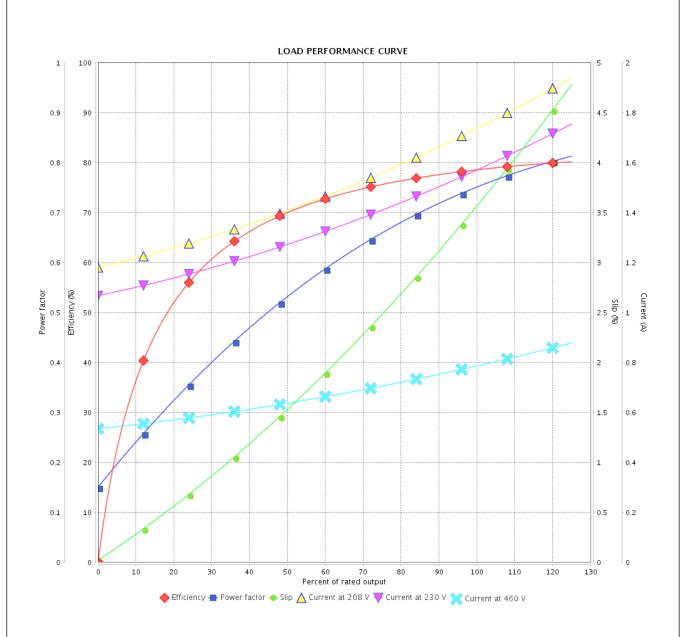
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13989586



 Performance
 : 208-230/460 V 60 Hz 4P

 Rated current
 : 1.75-1.58/0.789 A
 Moment of inertia (J)
 : 0.0019 kgm²

LRC : 6.4 Duty cycle : Cont.(S1)
Rated torque : 0.209 kgfm Insulation class : F

Locked rotor torque : 250 % Service factor :
Breakdown torque : 320 % Temperature rise : 80 K

Rated speed : 1735 rpm

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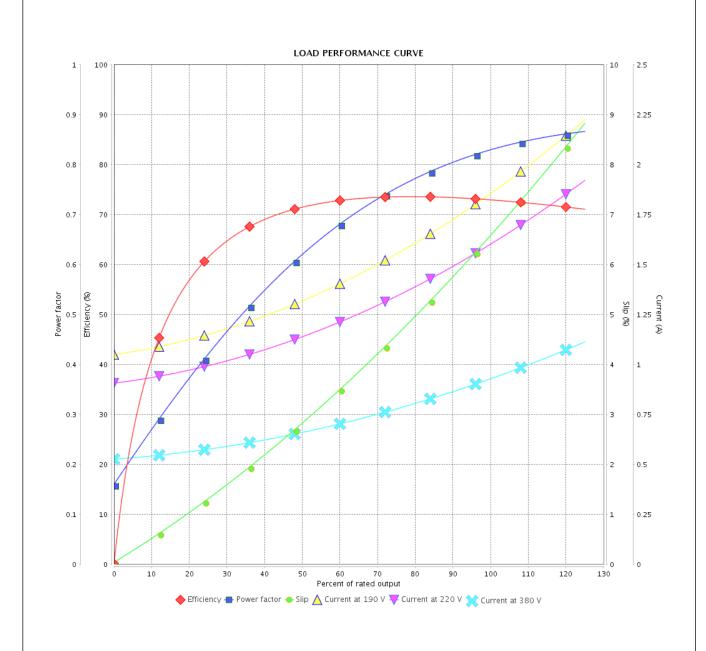
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Premium Efficiency Three-Phase Product code : 13989586



Performance : 190-220/380 V 50 Hz 4P : 1.86-1.60/0.928 A Rated current Moment of inertia (J) : 0.0019 kgm² **LRC** : 4.8 Duty cycle : Cont.(S1) : 0.259 kgfm Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 210 % Temperature rise : 80 K Rated speed : 1400 rpm

Nated Speed		400 Ipili				
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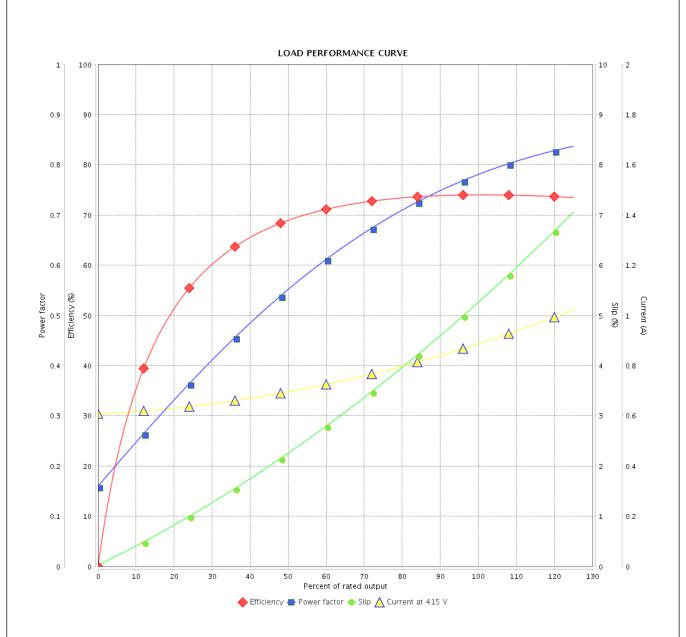
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 13989586



Performance : 415 V 50 Hz 4P : 0.0019 kgm² Rated current : 0.892 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.5 : 0.256 kgfm Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed : 1420 rpm

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