DATA SHEET

Checked by

Date

29/10/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 13025590 Three-Phase Frame : 182/4TC Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight³ Altitude : 46.0 kg Protection degree : IP55 Moment of inertia (J) : 0.0243 kgm² Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 5.68/2.84 3.10 3.13 3.11 L. R. Amperes [A] 33.5/16.8 15.5 17.2 18.7 LRC [A] 5.9x(Code L) 5.0x(Code J) 5.5x(Code K) 6.0x(Code L) No load current [A] 4.20/2.10 2.00 2.30 2.50 Rated speed [RPM] 860 700 705 710 Slip [%] 4.44 6.67 6.00 5.33 Rated torque [kgfm] 1.25 1.52 1.51 1.51 Locked rotor torque [%] 229 210 240 260 Breakdown torque [%] 290 220 240 270 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 30s (cold) 17s (hot) 30s (cold) 17s (hot) Locked rotor time 30s (cold) 17s (hot) 30s (cold) 17s (hot) Noise level² 50.0 dB(A) 46.0 dB(A) 46.0 dB(A) 46.0 dB(A) 25% 50% 76.0 74.0 74.5 73.5 Efficiency (%) 75% 78.0 76.0 76.0 76.0 100% 78.5 77.0 76.9 76.9 25% 50% 0.43 0.51 0.47 0.44 Power Factor 75% 0.54 0.62 0.58 0.55 0.62 0.70 0.66 0.64 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 25.9 28.4 28.4 28.3 P2 (0,5;1,0) 20.5 22.5 22.4 22.5 P3 (0,25;1,0) 20.3 18.6 20.4 20.4 P4 (0,9;0,5) 18.4 20.1 20.2 20.2 Losses (%) P5 (0,5;0,5) 13.2 14.4 14.4 14.4 P6 (0,5;0,25) 11.6 12.7 12.8 12.8 P7 (0,25;0,25) 8.8 9.6 9.7 9.7 Non drive end Foundation loads Drive end Bearing type 6207 ZZ 6206 ZZ : 63 kaf Max. traction Sealing V'Ring V'Ring Max. compression : 109 kgf Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal must be eliminated. power supply, subject to the tolerances stipulated in NEMA MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by

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Revision

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Three Phase Induction Motor - Squirrel Cage						<u> ШЕЦ</u>
Customer	:					
Notes USABLE @208\	√ 5.97A SF 1.15 S	SFA 6.87A				
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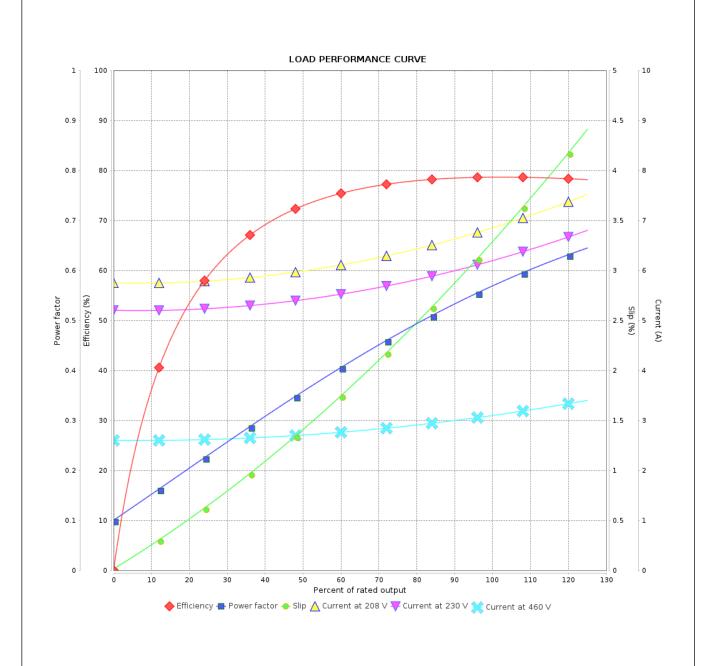
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 13025590

Three-Phase



Performance		: 230/460 V 60 Hz 8F	P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 5.68/2.84 A : 5.9 : 1.25 kgfm : 229 % : 290 % : 860 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : W22 NEMA Premium Efficiency

Three-Phase

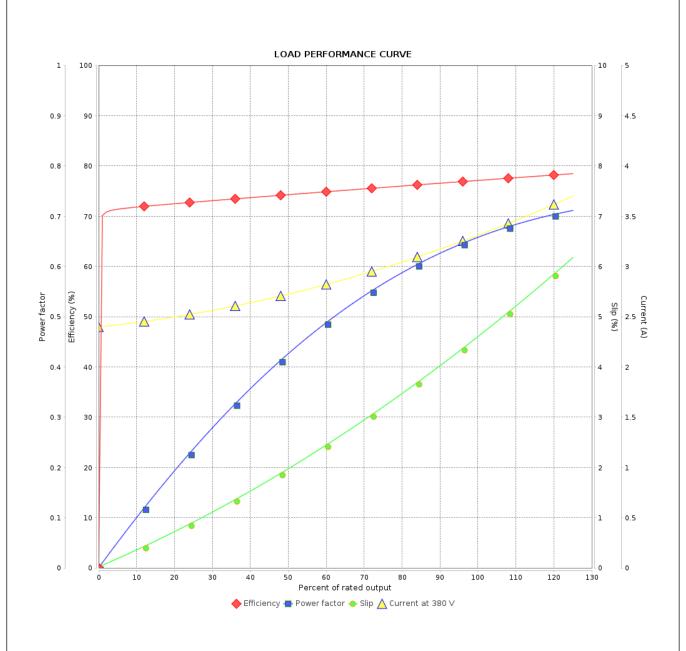
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Performance	: 380 V 50 Hz 8P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.10 A : 5.0 : 1.52 kgfm : 210 % : 220 % : 700 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0243 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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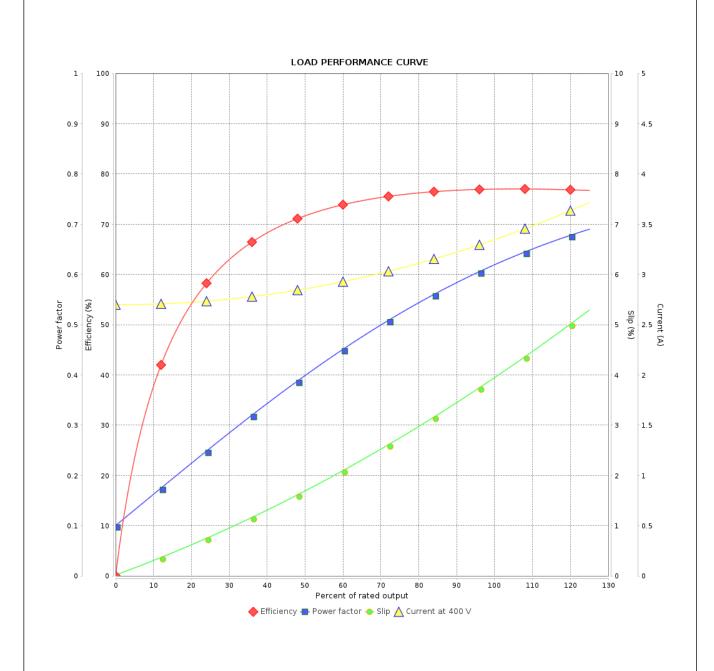
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 13025590

Three-Phase



Performance		: 400 V 50 Hz 8P IE2				
LRC : 8 Rated torque : 2 Locked rotor torque : 2 Breakdown torque : 2		: 3.13 A : 5.5 : 1.51 kgfm : 240 % : 240 % : 705 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.0243 kgm : Cont.(S1) : F : 1.00 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage



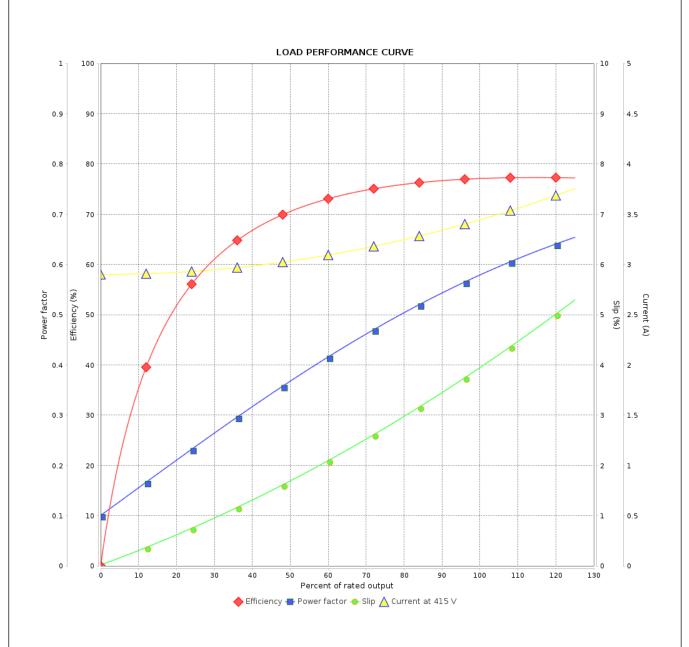
Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code :

13025590



: 415 V 50 Hz 8P IE2 Performance : 0.0243 kgm² Rated current : 3.11 A Moment of inertia (J) **LRC** : 6.0 Duty cycle : Cont.(S1) : 1.51 kgfm Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 710 rpm Design : B Rev. Changes Summary Checked Performed Date

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