DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11456700 Three-Phase Frame : 213/5TC Cooling method : IC411 - TEFC Insulation class Mounting : F-1 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 : 78.1 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0620 kgm² Design : B Output [HP] 5 5 5 5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 13.7/6.83 8.20 7.82 7.65 L. R. Amperes [A] 47.7 92.9/46.4 45.1 49.7 LRC [A] 6.8x(Code J) 5.5x(Code G) 6.1x(Code H) 6.5x(Code J) No load current [A] 6.90/3.45 3.41 3.68 3.90 Rated speed [RPM] 1170 960 965 970 Slip [%] 2.50 4.00 3.50 3.00 Rated torque [kgfm] 3.10 3.78 3.76 3.74 Locked rotor torque [%] 170 150 160 190 Breakdown torque [%] 260 215 220 250 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 102s (cold) 57s (hot) 54s (cold) 30s (hot) 54s (cold) 30s (hot) Locked rotor time 54s (cold) 30s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 88.5 88.5 88.5 87.5 Efficiency (%) 75% 89.5 88.5 88.5 88.5 100% 89.5 86.8 87.5 88.5 25% 50% 0.58 0.65 0.61 0.58 Power Factor 75% 0.70 0.75 0.73 0.71 0.76 0.79 0.78 0.76 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.3 P1 (0,9;1,0) 13.5 11.1 14.4 P2 (0,5;1,0) 9.1 11.1 10.1 11.8 P3 (0,25;1,0) 8.8 9.8 11.4 10.8 P4 (0,9;0,5) 7.1 6.4 Losses (%) 5.8 7.5 P5 (0,5;0,5) 4.5 4.0 5.2 4.9 P6 (0,5;0,25) 2.9 3.7 3.5 3.2 P7 (0,25;0,25) 2.1 2.7 2.6 2.3 Non drive end Foundation loads Drive end Bearing type 6308 ZZ 6207 ZZ : 134 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 212 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 Checked by Page Revision

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11/05/2025

Date

DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			ШЕЦ
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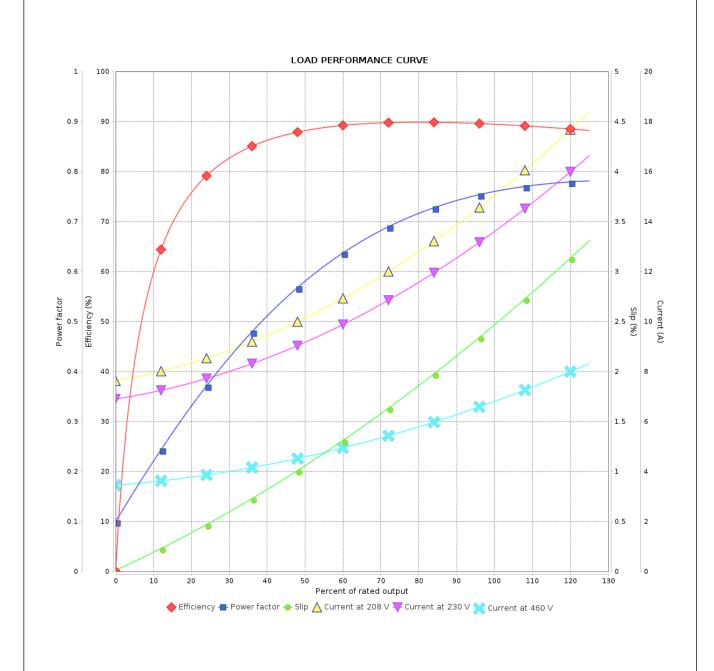
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Date

11/05/2025

Product line : W22 NEMA Premium Efficiency Product code : 11456700

Three-Phase



Performance		: 230/460 V 60 I	Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 13.7/6.83 A : 6.8 : 3.10 kgfm : 170 % : 260 % : 1170 rpm		Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0620 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

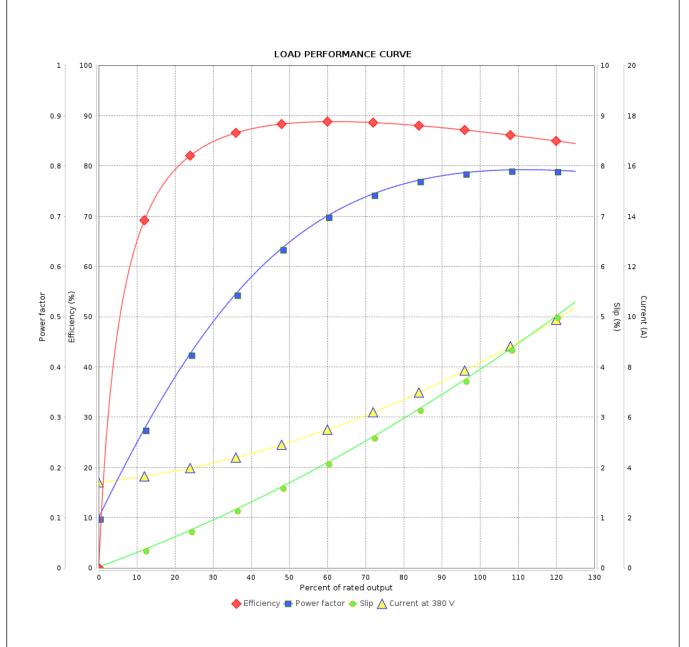


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456700



Performance		: 380 V 50 Hz 6P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque		: 8.20 A : 5.5 : 3.78 kgfm : 150 % : 215 %	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0620 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed		: 960 rpm	Design	Design : B			
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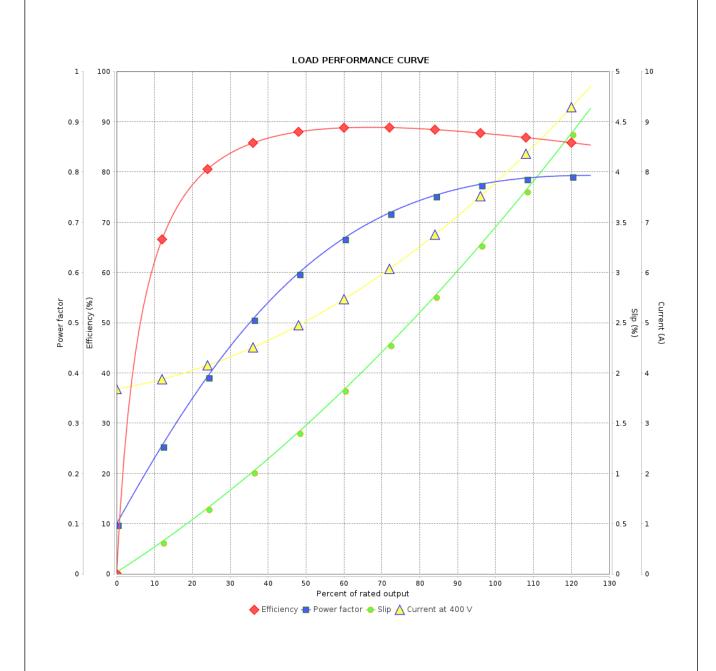
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456700

Three-Phase



Performance	: 400 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.82 A : 6.1 : 3.76 kgfm : 160 % : 220 % : 965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0620 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	

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Three Phase Induction Motor - Squirrel Cage



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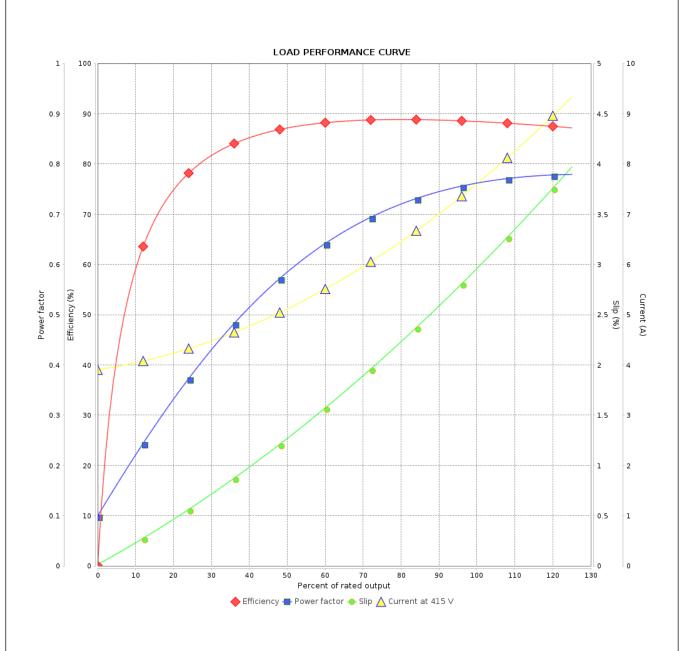
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456700



Performance : 415 V 50 Hz 6P IE3 : 7.65 A : 0.0620 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.5 Insulation class Rated torque : 3.74 kgfm : F Locked rotor torque : 190 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 970 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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