DATA SHEET

Checked by

Date

26/07/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 11456826 Three-Phase Frame : 182/4TC 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 : 46.8 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0262 kgm² Design : B Output [HP] 2 2 2 2 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 6.44/3.22 3.66 3.61 3.58 L. R. Amperes [A] 48.3/24.2 22.0 24.2 25.4 LRC [A] 7.5x(Code L) 6.0x(Code J) 6.7x(Code K) 7.1x(Code L) No load current [A] 3.80/1.90 1.90 2.05 2.15 Rated speed [RPM] 1170 960 965 965 Slip [%] 2.50 4.00 3.50 3.50 Rated torque [kgfm] 1.24 1.51 1.50 1.50 Locked rotor torque [%] 300 229 280 310 Breakdown torque [%] 350 260 310 340 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 36s (cold) 20s (hot) 36s (cold) 20s (hot) Locked rotor time 55s (cold) 31s (hot) 36s (cold) 20s (hot) Noise level² 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 86.5 85.5 85.5 85.0 Efficiency (%) 75% 87.5 86.0 86.5 86.5 100% 88.5 86.5 87.0 87.0 25% 50% 0.46 0.53 0.49 0.46 Power Factor 75% 0.58 0.65 0.62 0.59 0.72 0.69 0.67 100% 0.66 Losses at normative operating points (speed;torque), in percentage of rated output power 12.3 P1 (0,9;1,0) 12.3 12.3 12.3 P2 (0,5;1,0) 9.8 9.8 9.8 9.8 P3 (0,25;1,0) 9.2 9.2 9.2 9.2 P4 (0,9;0,5) 7.4 7.4 7.4 Losses (%) 7.4 P5 (0,5;0,5) 5.0 5.0 5.0 5.0 P6 (0,5;0,25) 3.9 3.9 3.9 3.9 P7 (0,25;0,25) 2.9 2.9 2.9 2.9 Non drive end Foundation loads Drive end Bearing type 6207 ZZ 6206 ZZ : 83 kaf Max. traction Sealing V'Ring V'Ring Max. compression : 130 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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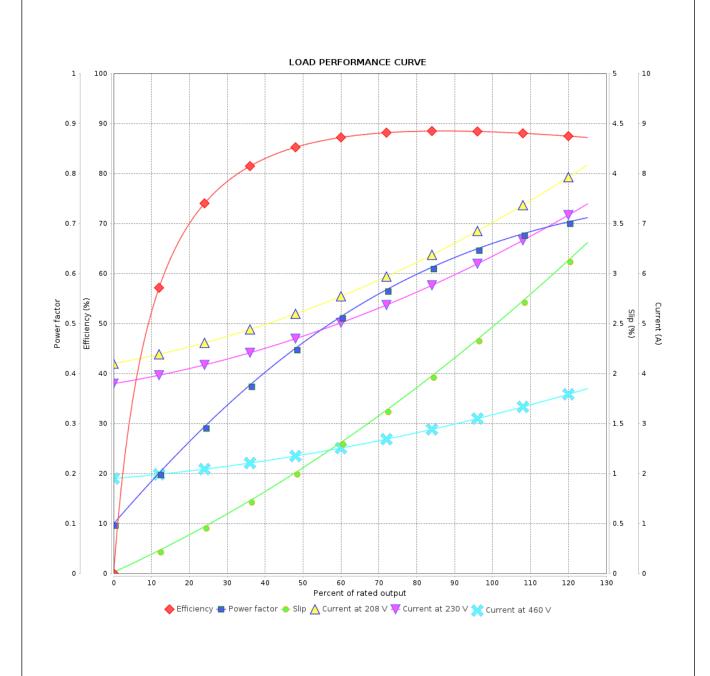
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456826

Three-Phase



Performance	: 230/460 V 60 Hz 6P					
Rated current LRC	: 6.44/3.22 A : 7.5	Moment of inertia (J) Duty cycle		: 0.0262 kgm² : Cont.(S1)		
Rated torque : 1.24 kgfm Locked rotor torque : 300 %		Service factor		: F : 1.25	: 1.25	
Breakdown torque Rated speed	: 350 % : 1170 rpm	'		: 80 K : B		
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : W22 NEMA Premium Efficiency

Three-Phase

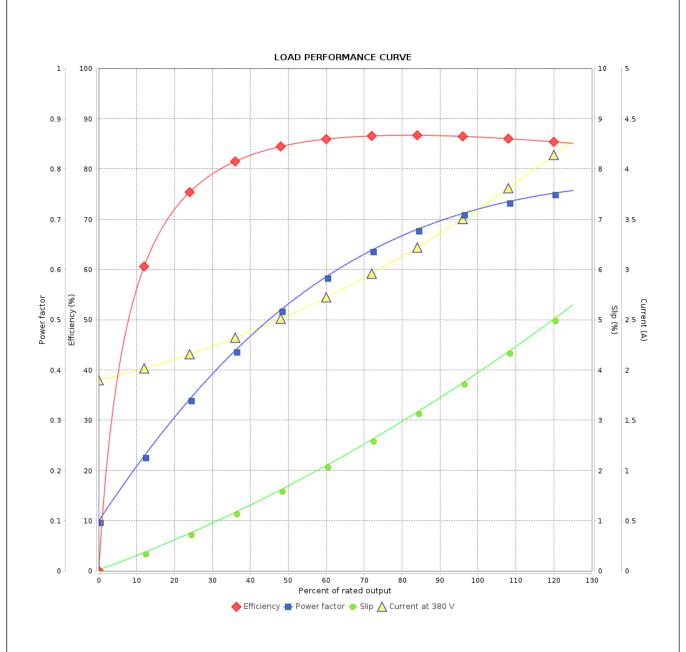
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Performance		: 380 V 50 Hz 6P	IE4			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 3.66 A : 6.0 : 1.51 kgfm : 229 % : 260 % : 960 rpm	Duty cy Insulati Service Temper	Moment of inertia (J) : 0.0262 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B		
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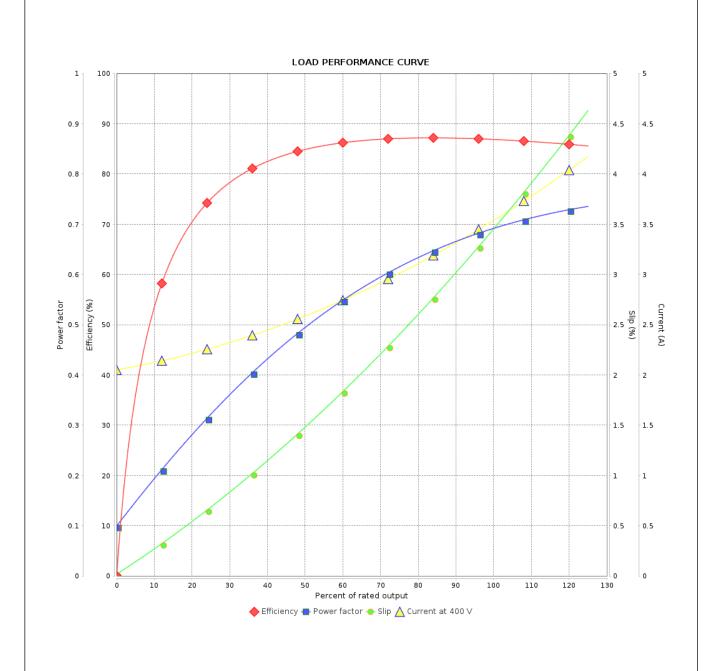
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 11456826

Three-Phase



Performance		: 400 V 50 Hz 6P IE4				
Rated current		: 3.61 A	Moment of inertia (J)		: 0.0262 kgm²	
LRC		: 6.7	Duty cycle		: Cont.(S1)	
Rated torque		: 1.50 kgfm	Insulation class		: F	
Locked rotor torque		: 280 %	Service factor		: 1.00	
Breakdown torque		: 310 %	Temperature rise		: 80 K	
Rated speed : 965 rpm		Design : B				
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Three Phase Induction Motor - Squirrel Cage



Customer :

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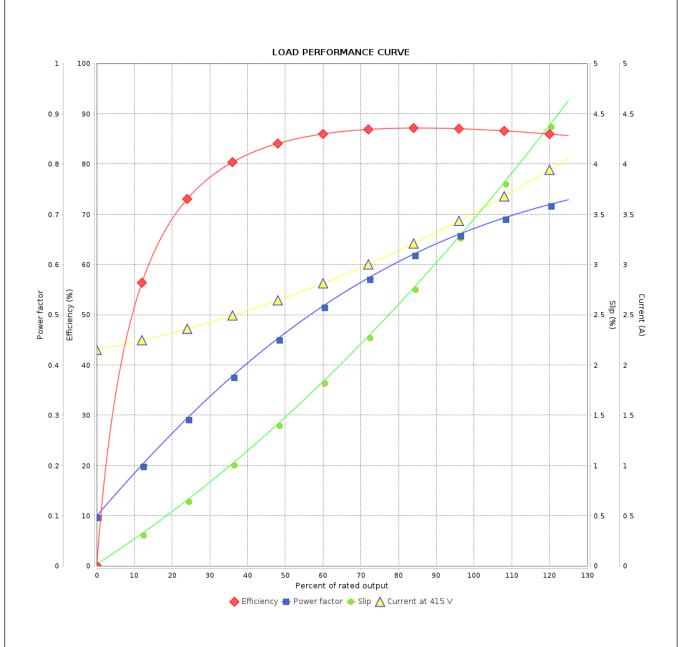
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 11456826



Performance	: 4	15 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 7 : 1 jue : 3	5.58 A 7.1 .50 kgfm 110 % 140 % 165 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0262 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	
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