DATA SHEET

Checked by

Date

28/10/2024

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12717287 Three-Phase Frame : 284/6TC 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 : 178 kg : 1000 m.a.s.l. Approx. weight³ Altitude Protection degree : IP55 Moment of inertia (J) : 0.3034 kgm² Design : B Output [HP] 10 10 10 10 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 26.8/13.4 16.1 15.3 15.1 L. R. Amperes [A] 150/75.0 70.8 75.0 78.5 LRC [A] 5.6x(Code G) 4.4x(Code E) 4.9x(Code F) 5.2x(Code G) No load current [A] 13.0/6.50 6.40 6.90 7.35 Rated speed [RPM] 880 725 725 730 Slip [%] 2.22 3.33 3.33 2.67 Rated torque [kgfm] 8.25 10.0 10.0 9.94 Locked rotor torque [%] 200 150 170 190 Breakdown torque [%] 240 190 210 229 Service factor 1.25 1.00 1.15 1.15 Temperature rise 80 K 105 K 105 K 105 K Locked rotor time 57s (cold) 32s (hot) 45s (cold) 25s (hot) 45s (cold) 25s (hot) 45s (cold) 25s (hot) Noise level² 54.0 dB(A) 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 25% 50% 89.5 89.5 88.5 88.5 Efficiency (%) 75% 90.2 88.5 88.5 89.5 100% 90.2 87.5 88.5 88.5 25% 50% 0.61 0.68 0.64 0.61 Power Factor 75% 0.72 0.77 0.74 0.72 0.78 0.80 0.78 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.3 10.3 10.3 10.3 P2 (0,5;1,0) 8.5 8.5 8.5 8.5 P3 (0,25;1,0) 8.4 8.4 8.4 8.4 P4 (0,9;0,5) 5.4 5.4 Losses (%) 5.4 5.4 P5 (0,5;0,5) 3.7 3.7 3.7 3.7 P6 (0,5;0,25) 2.6 2.6 2.6 2.6 P7 (0,25;0,25) 1.8 1.8 1.8 1.8 Non drive end Foundation loads Drive end Bearing type 6311 C3 6211 C3 Max. traction : 238 kgf Sealing V'Ring V'Ring Max. compression : 416 kgf 20000 h Lubrication interval 20000 h Lubricant amount 18 q 11 g Mobil Polyrex EM Lubricant type 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	<u> </u>
Customer :	
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USABLE @208V 29.6A SF 1.15 SFA 34.1A	

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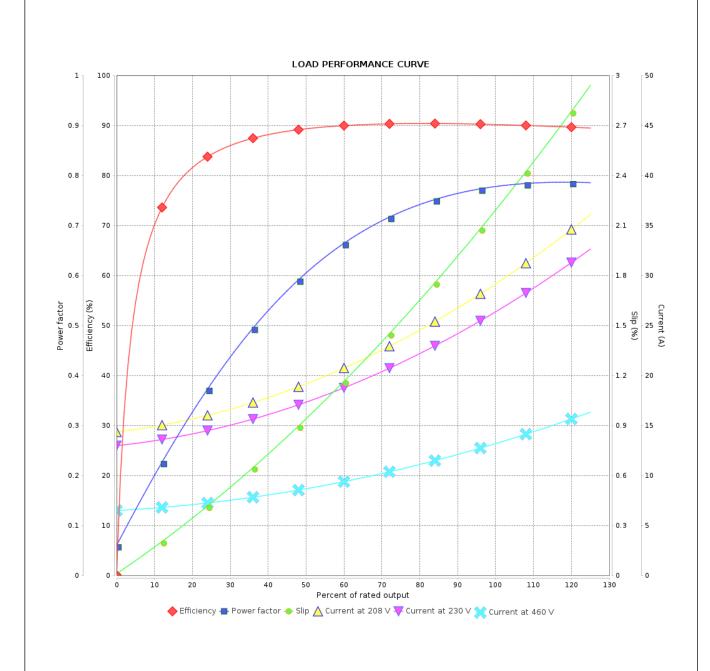
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12717287

Three-Phase



Performance		: 230/460 V 60 Hz 8P				
Rated current		: 26.8/13.4 A	Moment of	of inertia (J)	: 0.3034 kgm	2
LRC		: 5.6	Duty cycle	9	: Cont.(S1)	
Rated torque		: 8.25 kgfm	Insulation	class	: F	
Locked rotor tord	que	: 200 %	Service fa	ictor	: 1.25	
Breakdown torqu	ue	: 240 %	Temperati	ure rise	: 80 K	
Rated speed		: 880 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

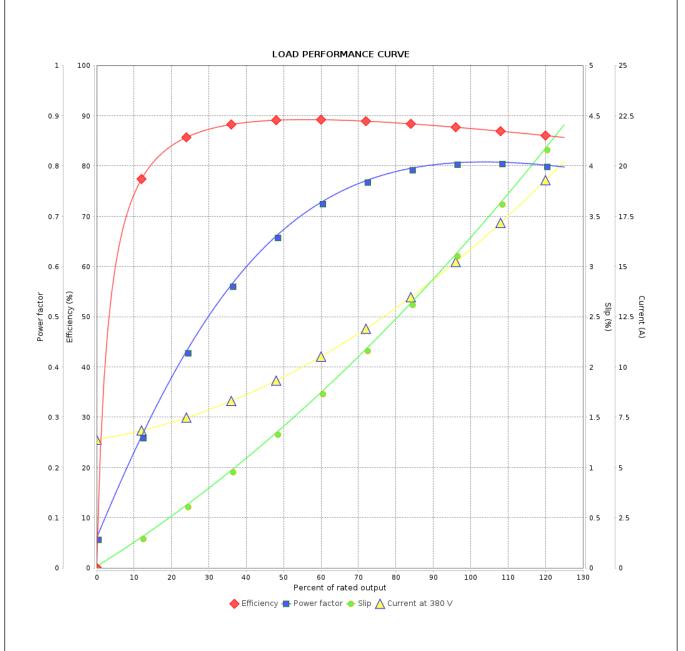
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12717287



Performance : 380 V 50 Hz 8P IE3 : 16.1 A : 0.3034 kgm² Rated current Moment of inertia (J) **LRC** : 4.4 Duty cycle : Cont.(S1) Insulation class Rated torque : 10.0 kgfm : F Locked rotor torque : 150 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 725 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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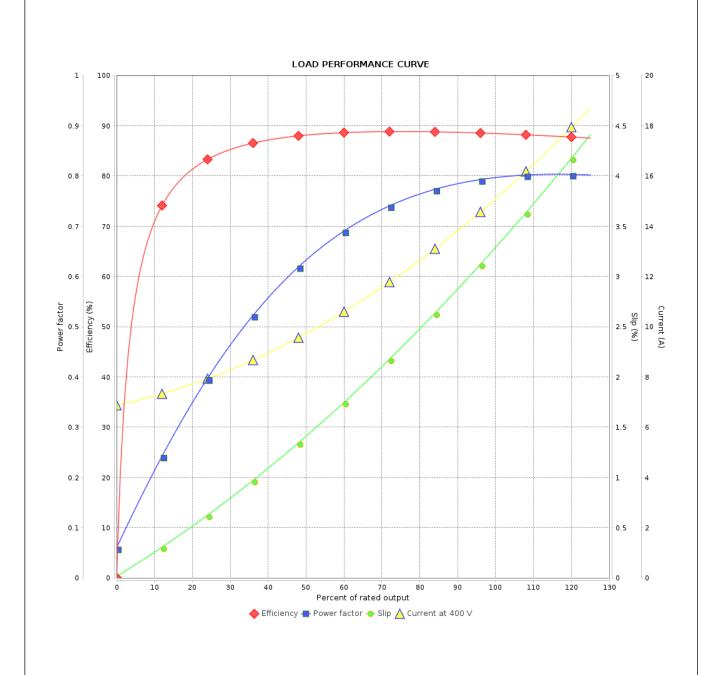
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12717287

Three-Phase



Performance	: 400 V 50 Hz 8P IE3				
Rated current	: 15.3 A	Moment of inertia (J)		: 0.3034 kgm²	
LRC	: 4.9	Duty cycle	e	: Cont.(S1)	
Rated torque	: 10.0 kgfm	Insulation class		: F	
Locked rotor torque : 170 %		Service factor		: 1.15	
Breakdown torque : 210 %		Temperat	ure rise	: 105 K	
Rated speed : 725 rpm		Design		: B	
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Three Phase Induction Motor - Squirrel Cage

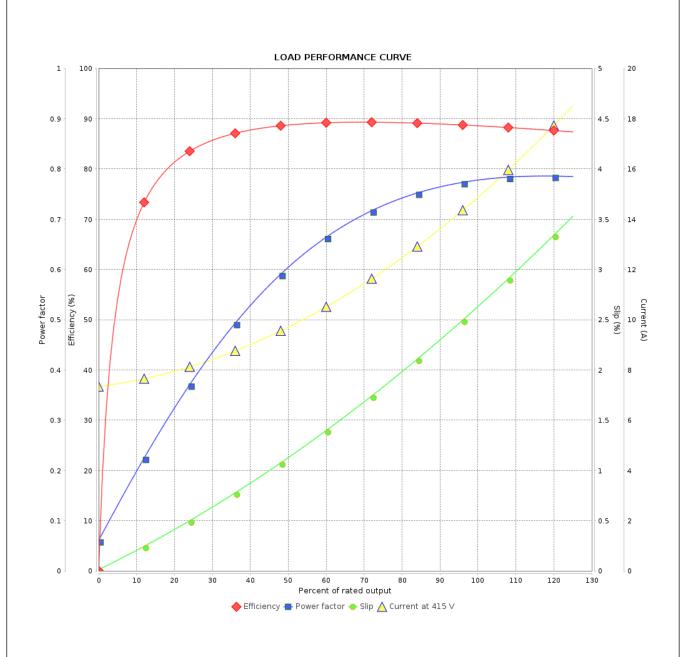


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12717287



Performance	. 415 V 50 Hz 9D IC3		·	
Performance	: 415 V 50 Hz 8P IE3	1		
Rated current LRC	: 15.1 A : 5.2	Moment of inertia (J) Duty cycle	: 0.3034 kgm² : Cont.(S1)	
Rated torque Locked rotor torque	: 9.94 kgfm : 190 %	Insulation class Service factor	: F : 1.15	
Breakdown torque	: 229 %	Temperature rise	: 105 K	
Rated speed	: 730 rpm	Design	: B	
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