DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 P Base NEMA Premium Product code: 13017860 Efficiency Three-Phase Frame : 143HP Cooling method : IC411 - TEFC Insulation class Mounting : W-6 : 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 : 23.3 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0049 kgm² Design : B Output [HP] 1 1 1 1 Poles 4 4 4 4 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 2.94/1.47 1.71 1.65 1.63 L. R. Amperes [A] 25.3/12.6 10.9 11.5 12.1 LRC [A] 8.6x(Code M) 6.4x(Code J) 7.0x(Code K) 7.4x(Code K) No load current [A] 1.88/0.940 0.930 1.00 1.08 Rated speed [RPM] 1760 1450 1455 1455 Slip [%] 2.22 3.33 3.00 3.00 Rated torque [kgfm] 0.412 0.501 0.499 0.499 Locked rotor torque [%] 290 220 240 260 Breakdown torque [%] 350 250 290 310 Service factor 1.25 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 80 K 32s (cold) 18s (hot) Locked rotor time 32s (cold) 18s (hot) 32s (cold) 18s (hot) 32s (cold) 18s (hot) Noise level² 51.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 0.08 80.0 80.0 80.0 Efficiency (%) 75% 84.0 82.5 82.5 82.5 100% 85.5 82.5 84.0 84.0 25% 50% 0.55 0.62 0.58 0.55 Power Factor 75% 0.68 0.74 0.71 0.69 0.75 0.78 0.76 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 15.9 15.9 15.9 15.9 P2 (0,5;1,0) 12.8 12.8 12.8 12.8 P3 (0,25;1,0) 12.5 12.5 12.5 12.5 P4 (0,9;0,5) 10.1 10.1 Losses (%) 10.1 10.1 P5 (0,5;0,5) 7.0 7.0 7.0 7.0 P6 (0,5;0,25) 5.8 5.8 5.8 5.8 P7 (0,25;0,25) 4.3 4.3 4.3 4.3 Non drive end Foundation loads Drive end Bearing type 6307 ZZ 6204 ZZ Max. traction Sealing V'Ring V'Ring Max. compression 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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26/10/2024

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Notes USABLE @208\	/ 3.07A SF 1.15 SFA 3.54A			
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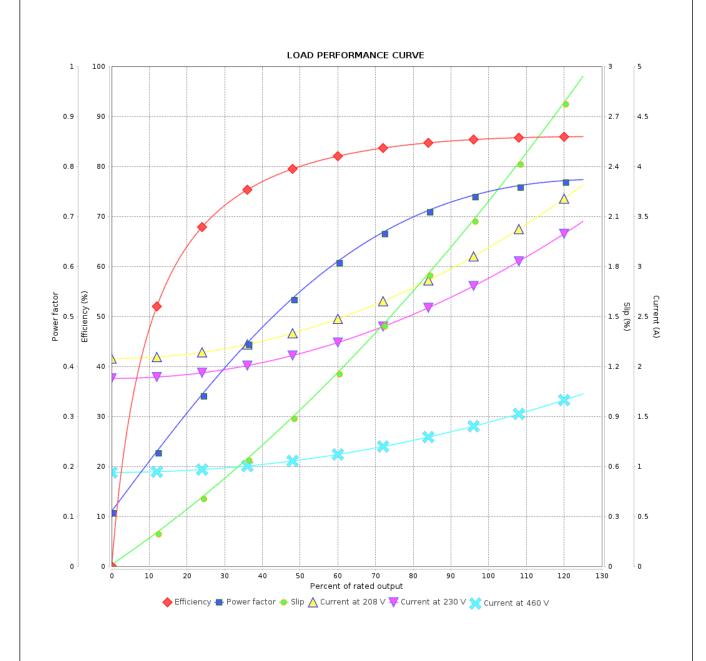


Customer

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 13017860



Performance	: 2	230/460 V 60 Hz 4P					
Rated current	ted current : 2.94/1.47 A Moment of inertia		inertia (J) : 0.0049 kgm²		2		
LRC : 8.		8.6	Duty cycle	Duty cycle			
Rated torque	: (0.412 kgfm	Insulation	Insulation class			
Locked rotor torqu	ue ::	290 %	Service fa	Service factor		: 1.25	
Breakdown torque	e ::	350 %	Temperati	Temperature rise			
Rated speed	:	1760 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage



Customer :

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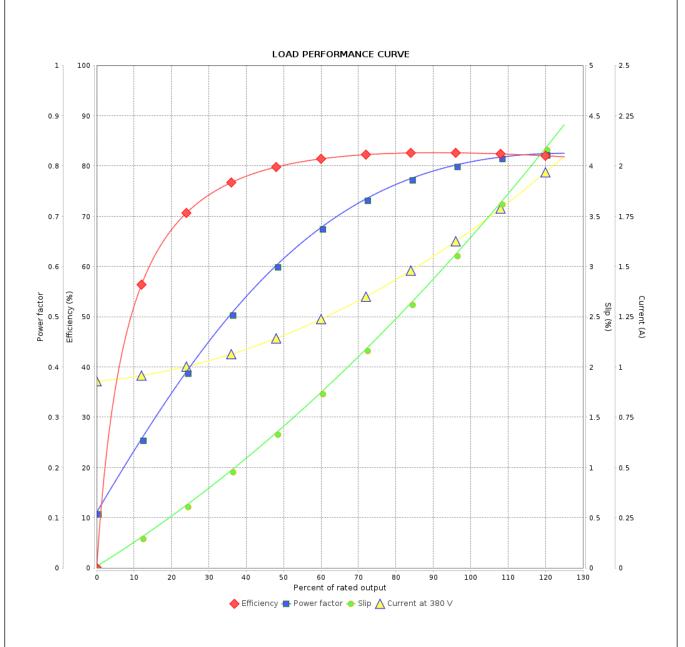
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Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 13017860



Performance	: 38	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 0. ue : 22 e : 25	.71 A .4 .501 kgfm 20 % 50 % 450 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class actor	: 0.0049 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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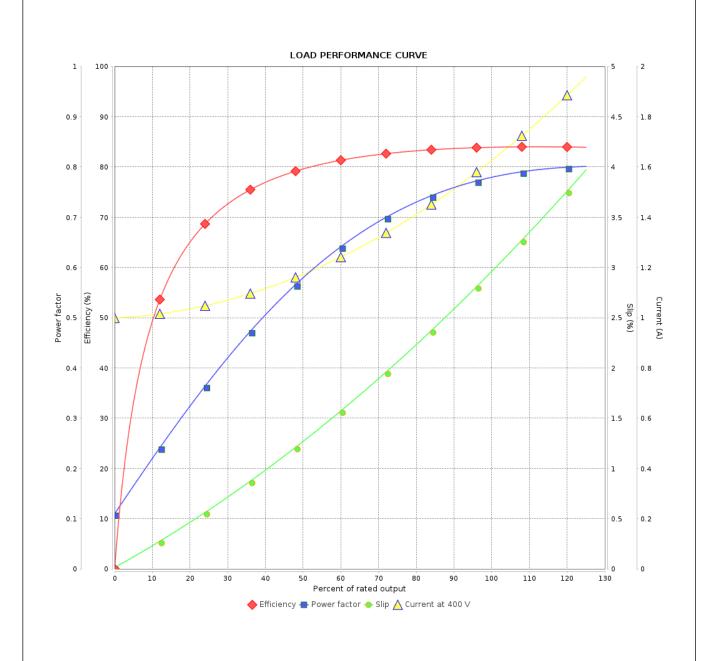


Customer :

Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 13017860



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current : 1.		.65 A	Moment of	Moment of inertia (J)		
LRC	: 7.0 Duty cycle		;	: Cont.(S1)		
Rated torque	: 0.	.499 kgfm	Insulation class		:F ´´	
Locked rotor torqu	e : 2	40 %	Service factor		: 1.25	
Breakdown torque	: 29	90 %	Temperature rise		: 80 K	
Rated speed	: 14	455 rpm	Design		: B	
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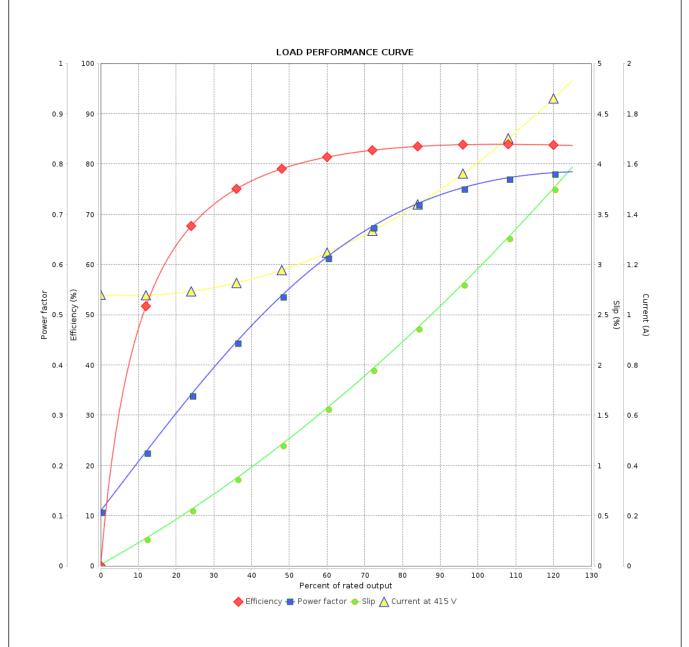
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Product line : W22 P Base NEMA Premium

Efficiency Three-Phase

Product code: 13017860



Performance : 415 V 50 Hz 4P IE3 : 1.63 A : 0.0049 kgm² Rated current Moment of inertia (J) **LRC** : 7.4 Duty cycle : Cont.(S1) : 0.499 kgfm Insulation class Rated torque : F Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1455 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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