DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 P Base NEMA Premium Efficiency Product code: 14605782 Three-Phase Frame : 404/5HPH 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 Altitude : 1000 m.a.s.l. Approx. weight³ : 512 kg Protection degree : IP55 Moment of inertia (J) : 0.5561 kgm² Design : B Output [HP] 100 75 75 75 Poles 2 2 2 2 60 50 Frequency [Hz] 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 224/112 99.6 94.6 92.2 L. R. Amperes [A] 1456/728 677 719 756 LRC [A] 6.5x(Code G) 6.8x(Code G) 7.6x(Code H) 8.2x(Code J) No load current [A] 52.0/26.0 25.7 27.5 29.1 Rated speed [RPM] 3545 2955 2960 2965 Slip [%] 1.53 1.50 1.33 1.17 Rated torque [kgfm] 20.5 18.4 18.4 18.4 Locked rotor torque [%] 240 250 280 300 Breakdown torque [%] 260 280 310 330 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) 18s (cold) 10s (hot) Noise level² 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 50% 93.0 93.0 93.1 93.5 Efficiency (%) 75% 94.1 93.8 93.8 94.0 100% 94.1 94.3 94.3 94.3 25% 50% 0.83 0.82 0.80 0.78 Power Factor 75% 0.88 0.88 0.86 0.85 0.89 0.89 0.89 0.88 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.9 5.9 5.9 P2 (0,5;1,0) 4.6 4.6 4.6 4.6 P3 (0,25;1,0) 4.4 4.4 4.4 4.4 P4 (0,9;0,5) 2.8 2.8 2.8 2.8 Losses (%) P5 (0,5;0,5) 1.6 1.6 1.6 1.6 P6 (0,5;0,25) 0.9 0.9 0.9 0.9 P7 (0,25;0,25) 0.5 0.5 0.5 0.5 Drive end Non drive end Foundation loads Bearing type 6316 C3 6314 C3 Max. traction Sealing Lip Seal Lip Seal Max. compression 2000 h 3000 h Lubrication interval Lubricant amount 34 g 27 g Isoflex NBU-15 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 (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process.

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	se Induction	Motor - Squirre	l Cage			<u>wey</u>
Customer	:					
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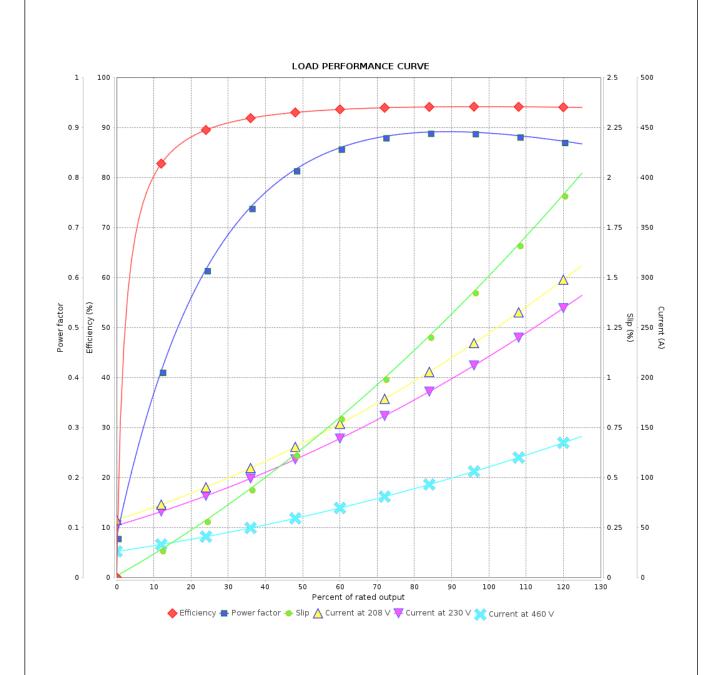
14605782

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Customer :

Product line : W22 P Base NEMA Premium Efficiency Product code :

Three-Phase



Performance	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 224/112 A : 6.5 : 20.5 kgfm : 240 % : 260 % : 3545 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5561 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
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Three Phase Induction Motor - Squirrel Cage

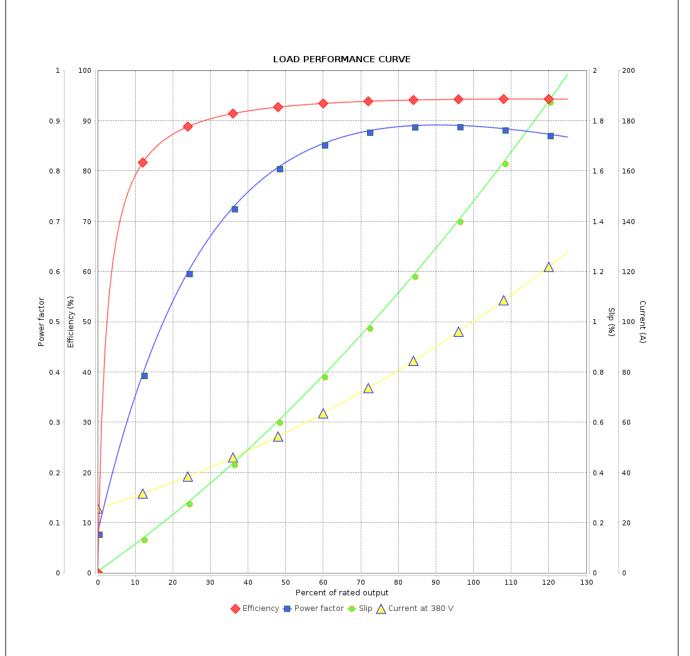


Customer

Product line : W22 P Base NEMA Premium Efficiency

Three-Phase

Product code: 14605782



Performance	: 3	880 V 50 Hz 2P IE3				
Rated current	: 9	: 99.6 A Moment of inertia (J) : 6.8 Duty cycle : 18.4 kgfm Insulation class : 250 % Service factor : 280 % Temperature rise		of inertia (J)	: 0.5561 kgm² : Cont.(S1)	
LRC	: 6			е		
Rated torque	: 1			: F		
Locked rotor torqu	ue : 2			ctor : 1.00		
Breakdown torque	e : 2			ure rise	: 80 K	
Rated speed	ited speed : 2		955 rpm Design		: B	
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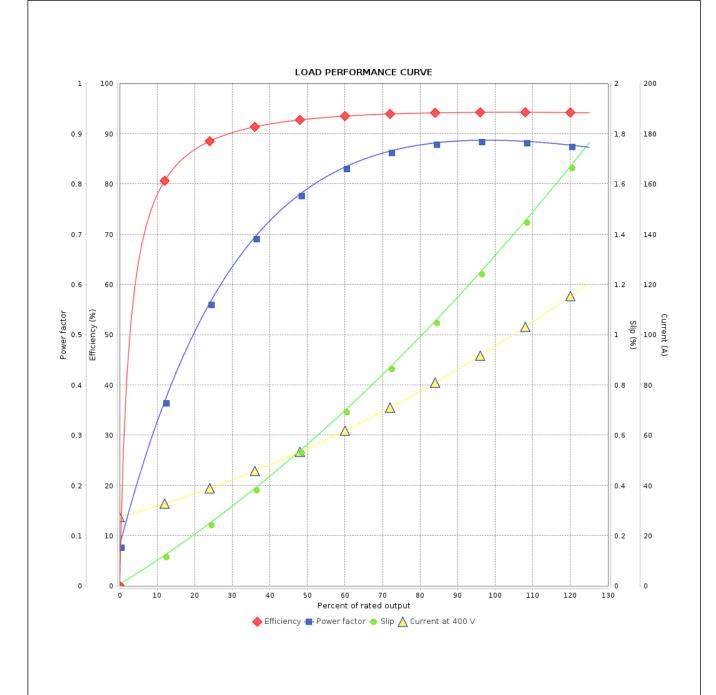
Customer :

Product line : W22 P Base NEMA Premium Efficiency

Three-Phase

Product code:

14605782



Performance	: 40	: 400 V 50 Hz 2P IE3						
Rated current	: 94	4.6 A	Moment of inertia (J)		: 0.5561 kgm²			
LRC	: 7.	.6	Duty cycle		: Cont.(S1)			
Rated torque	: 18	18.4 kgfmInsulation class280 %Service factor310 %Temperature rise2960 rpmDesign		class	: F	F		
Locked rotor torqu	ue : 28			ctor	: 1.00			
Breakdown torque	e : 3°			ıre rise	se : 80 K			
Rated speed	: 29				: B			
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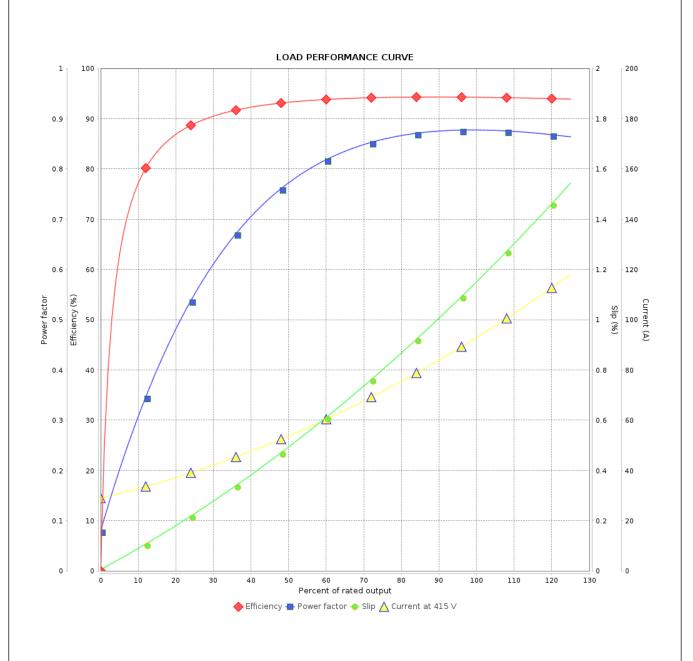


Customer

Product line : W22 P Base NEMA Premium Efficiency

Three-Phase

Product code: 14605782



Performance	: 4	15 V 50 Hz 2P IE3				
Rated current LRC		Moment of inertia (J) Duty cycle		: 0.5561 kgm² : Cont.(S1)		
Rated torque Locked rotor torque		8.4 kgfm 00 %	Insulation class Service factor		: F : 1.00	
Breakdown torque Rated speed		30 % 965 rpm	Temperature rise Design		: 80 K : B	
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