DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 13161994 Frame : L447/9T Cooling method : IC411 - TEFC Insulation class : F 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 : 1476 kg Altitude : 5.75 kgm² Protection degree : IP55 Moment of inertia (J) Design : B Output [HP] 400 350 350 350 Poles 4 4 4 4 50 50 50 Frequency [Hz] 60 Rated voltage [V] 460 380 400 415 Rated current [A] 437 445 461 448 L. R. Amperes [A] 2893 2766 3002 3146 LRC [A] 6.5x(Code G) 6.0x(Code F) 6.7x(Code G) 7.2x(Code H) No load current [A] 125 125 140 155 Rated speed [RPM] 1785 1485 1485 1485 Slip [%] 0.83 1.00 1.00 1.00 Rated torque [kgfm] 163 171 171 171 Locked rotor torque [%] 250 229 250 280 Breakdown torque [%] 260 240 270 290 Service factor 1.15 1.15 1.15 1.15 105 K Temperature rise 80 K 80 K 80 K 32s (cold) 18s (hot) Locked rotor time 37s (cold) 21s (hot) 43s (cold) 24s (hot) 37s (cold) 21s (hot) Noise level² 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 74.0 dB(A) 25% 50% 95.4 95.8 95.4 95.4 Efficiency (%) 75% 95.8 95.8 95.8 95.8 100% 96.2 96.2 96.2 96.2 25% 50% 0.80 0.81 0.77 0.74 Power Factor 75% 0.85 0.86 0.84 0.82 0.88 0.89 0.87 0.86 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.5 4.5 4.5 P2 (0,5;1,0) 3.3 3.3 3.3 3.3 P3 (0,25;1,0) 2.7 2.7 2.7 2.7 2.5 P4 (0,9;0,5) 2.5 2.5 2.5 Losses (%) P5 (0,5;0,5) 1.5 1.5 1.5 1.5 P6 (0,5;0,25) 1.1 1.1 1.1 1.1 P7 (0,25;0,25) 0.6 0.6 0.6 0.6 Non drive end Foundation loads Drive end Bearing type NU-322 C3 6319 C3 Max. traction : 3601 kaf Sealing WSeal WSeal Max. compression : 5077 kgf 4000 h 8000 h Lubrication interval Lubricant amount 60 g 45 q Mobil Polyrex EM Lubricant type

This revision replaces and cancel the previous one, which must be eliminated.

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- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Three Phase Induction Motor - Squirrel Cage

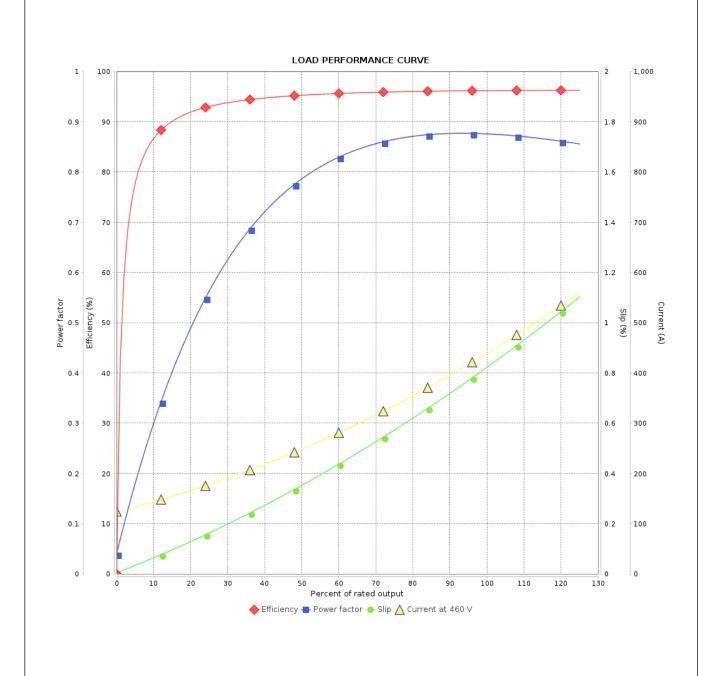


Customer :

Product line : W22 NEMA Premium Efficiency Three- Produ

Phase

Product code: 13161994



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 445 A : 6.5 : 163 kgfm : 250 % : 260 % : 1785 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.75 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

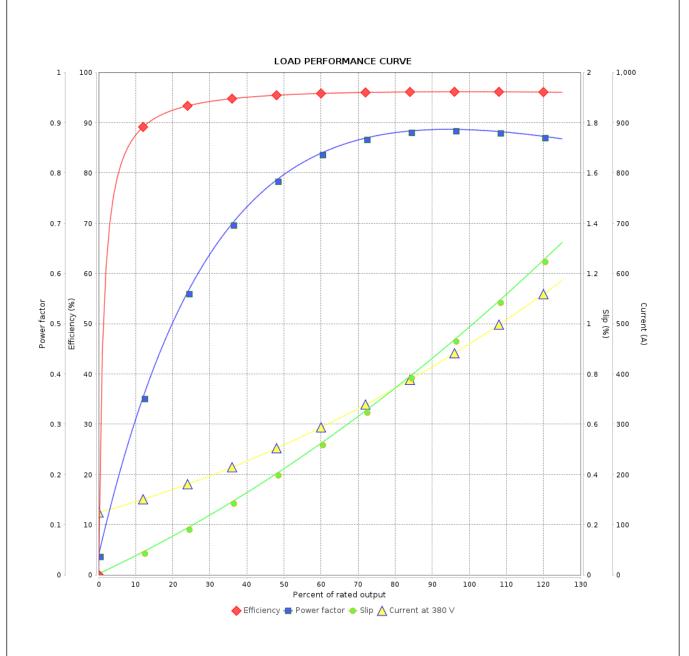
Product code:

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Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 461 A : 6.0 : 171 kgfm : 229 % : 240 % : 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 5.75 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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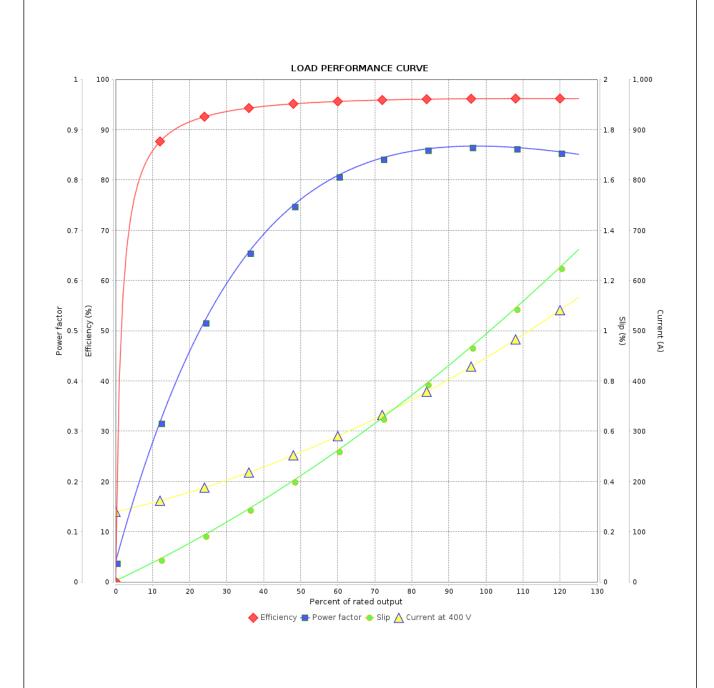


13161994

Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase



Performance	: 4	00 V 50 Hz 4P IE3				
Rated current	: 4	48 A Moment of inertia (J)		: 5.75 kgm²		
LRC		.7	Duty cycle		: Cont.(S1)	
Rated torque	: 1	71 kgfm	Insulation class		: F	
Locked rotor torqu	ie : 2	50 %	Service fa	Service factor		
Breakdown torque	: 2	70 %	Temperature rise		: 80 K	
Rated speed	: 1	485 rpm	Design		: B	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

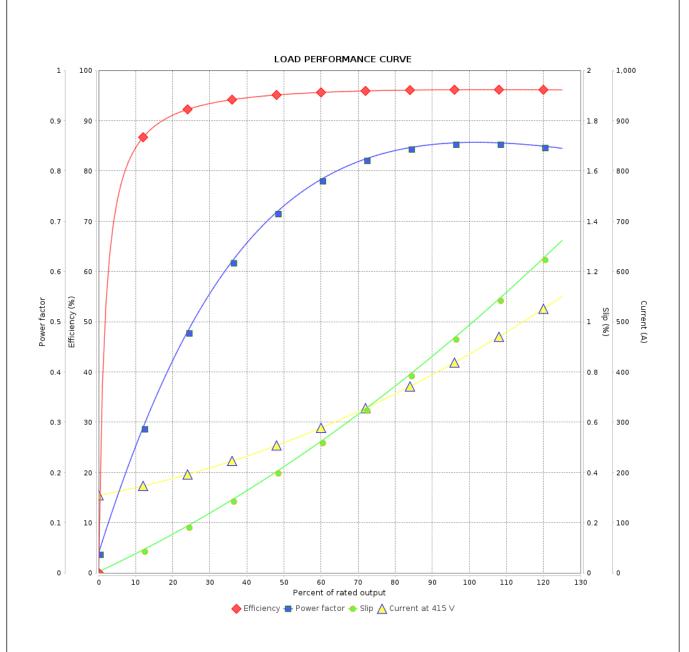
Product code:

13161994



13/01/2024

Date



Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 437 A : 7.2 : 171 kgfm : 280 % : 290 % : 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 5.75 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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