DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 13201564 Frame Cooling method : IC411 - TEFC : 447/9T Insulation class Mounting : F-1 : 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 : 1395 kg Altitude : 6.09 kgm² Protection degree : IP55 Moment of inertia (J) Design : A Output [HP] 300 250 250 250 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 356 362 357 349 L. R. Amperes [A] 2741 2679 2785 2862 LRC [A] 7.7x(Code J) 7.4x(Code H) 7.8x(Code J) 8.2x(Code K) No load current [A] 170 170 185 200 Rated speed [RPM] 1189 988 990 990 Slip [%] 0.92 1.20 1.00 1.00 Rated torque [kgfm] 183 184 183 183 Locked rotor torque [%] 270 229 260 290 Breakdown torque [%] 300 250 270 290 Service factor 1.00 1.00 1.00 1.15 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 18s (cold) 10s (hot) 14s (cold) 8s (hot) 14s (cold) 8s (hot) 14s (cold) 8s (hot) Noise level² 70.0 dB(A) 25% 50% 95.4 95.0 94.5 94.1 Efficiency (%) 75% 95.8 95.4 95.4 95.0 100% 95.8 95.8 95.8 95.8 25% 50% 0.63 0.61 0.59 0.56 Power Factor 75% 0.75 0.75 0.71 0.69 0.81 0.78 0.77 100% 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power 5.2 P1 (0,9;1,0) 5.2 5.2 P2 (0,5;1,0) 4.3 4.3 4.3 4.3 P3 (0,25;1,0) 3.7 3.7 3.7 3.7 P4 (0,9;0,5) 3.0 Losses (%) 3.0 3.0 3.0 P5 (0,5;0,5) 2.3 2.3 2.3 2.3 P6 (0,5;0,25) 1.8 1.8 1.8 1.8 P7 (0,25;0,25) 1.1 1.1 1.1 1.1 Non drive end Foundation loads Drive end Bearing type 6322 C3 6319 C3 Max. traction : 3952 kgf Sealing WSeal WSeal Max. compression : 5347 kgf 13000 h Lubrication interval 11000 h Lubricant amount 60 g 45 q Mobil Polyrex EM Lubricant type

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

- (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

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

manufacturing process.					
Rev.		Changes Summary	Performed	Checked	Date
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Date	13/01/2024			1/6	

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Three Phase Induction Motor - Squirrel Cage



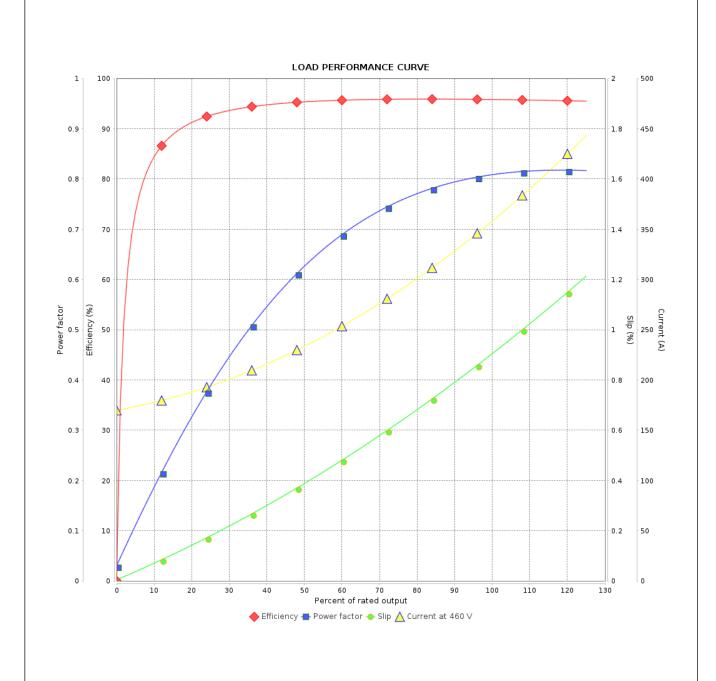
Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 13201564

Phase

13/01/2024

Date



Performance	: 460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 356 A : 7.7 : 183 kgfm : 270 % : 300 % : 1189 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.09 kgm² : Cont.(S1) : F : 1.15 : 80 K : A	
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

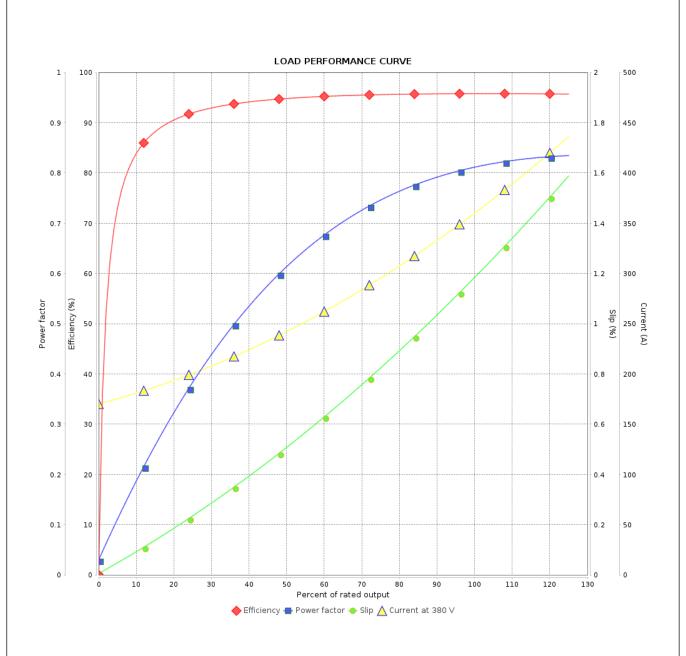
Product code:

13201564

Phase

13/01/2024

Date



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 362 A : 7.4 : 184 kgfm : 229 % : 250 % : 988 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.09 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
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Three Phase Induction Motor - Squirrel Cage



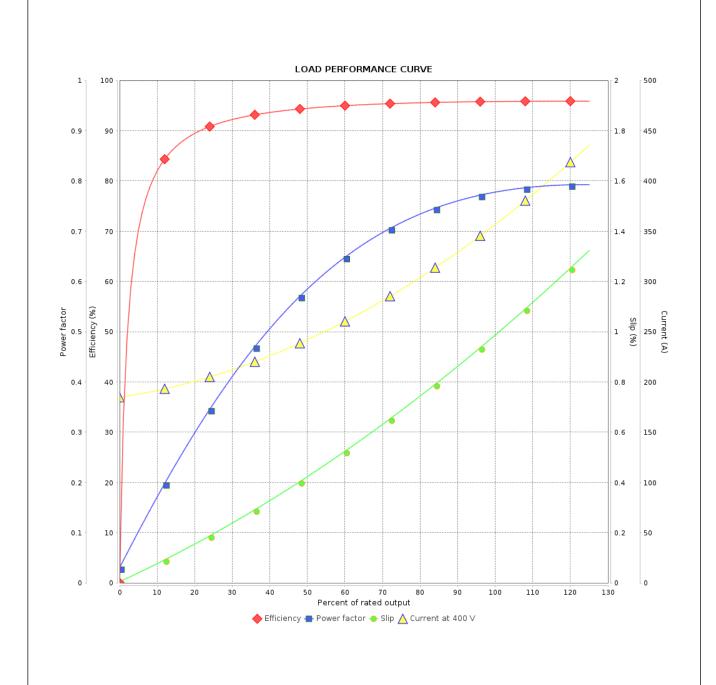
Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 13201564

Phase

13/01/2024

Date



Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 357 A : 7.8 : 183 kgfm : 260 % : 270 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.09 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
Rev.	Changes Summary	1	Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

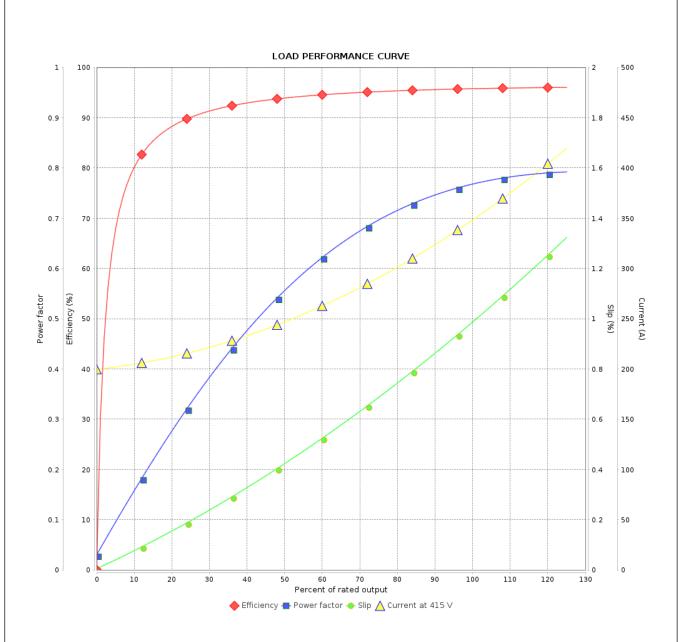
Product code:

13201564



13/01/2024

Date



Performance	: 415 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 349 A : 8.2 : 183 kgfm : 290 % : 290 % : 990 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.09 kgm² : Cont.(S1) : F : 1.00 : 80 K : A	
Rev.	Changes Summary	Performed	Checked	Date
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