## **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 13881423 : 586/7T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 1743 kg : 8.99 kgm<sup>2</sup> Protection degree : IP55 Moment of inertia (J) Design : B Output [HP] 450 400 400 400 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 507 552 531 518 L. R. Amperes [A] 3194 3036 3345 3522 LRC [A] 6.3x(Code G) 5.5x(Code E) 6.3x(Code G) 6.8x(Code H) No load current [A] 155 153 167 180 Rated speed [RPM] 1790 1488 1490 1490 Slip [%] 0.56 0.80 0.67 0.67 Rated torque [kgfm] 182 195 195 195 Locked rotor torque [%] 220 190 210 220 Breakdown torque [%] 229 210 229 250 1.00 1.00 Service factor 1.15 1.00 80 K 105 K 105 K Temperature rise 105 K 48s (cold) 27s (hot) 43s (cold) 24s (hot) 41s (cold) 23s (hot) 39s (cold) 22s (hot) Locked rotor time Noise level<sup>2</sup> 81.0 dB(A) 76.0 dB(A) 76.0 dB(A) 76.0 dB(A) 25% 50% 95.8 95.8 95.8 95.8 Efficiency (%) 75% 96.0 96.0 96.2 96.0 100% 96.2 96.0 96.0 96.0 25% 50% 0.77 0.79 0.76 0.74 Power Factor 75% 0.83 0.84 0.83 0.82 0.85 100% 0.85 0.86 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power 4.4 4.4 P1 (0,9;1,0) 4.4 4.4 P2 (0,5;1,0) 3.3 3.3 3.3 3.3 P3 (0,25;1,0) 2.6 2.6 2.6 2.6 P4 (0,9;0,5) 2.7 2.7 Losses (%) 2.7 2.7 1.7 P5 (0,5;0,5) 1.7 1.7 1.7 P6 (0,5;0,25) 1.3 1.3 1.3 1.3 P7 (0,25;0,25) 0.7 0.7 0.7 0.7 Non drive end Foundation loads Drive end NU-322 C3 Bearing type 6319 C3 : 2463 kgf Max. traction Sealing Taconite Taconite : 4206 kgf Max. compression Labyrinth Labyrinth 4000 h 8000 h Lubrication interval Lubricant amount 45 g 60 g 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 (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A).

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#### Three Phase Induction Motor - Squirrel Cage



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## Three Phase Induction Motor - Squirrel Cage



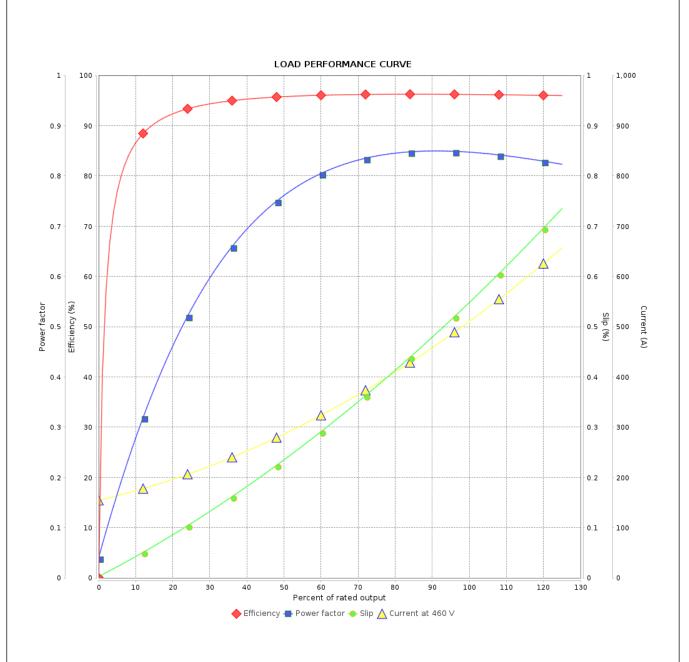
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

13881423

Phase



Performance	: 40	60 V 60 Hz 4P				
Rated current	Rated current : 507 A		Moment of	Moment of inertia (J)		
LRC	: 6.	: 6.3 Duty cycle		е	: Cont.(S1)	
Rated torque			Insulation	Insulation class		
Locked rotor tord		20 %	Service fa	actor	: 1.15	
Breakdown torque : 2		29 %	Temperat	Temperature rise		
Rated speed		790 rpm	Design	Design		
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## Three Phase Induction Motor - Squirrel Cage



Customer :

Date

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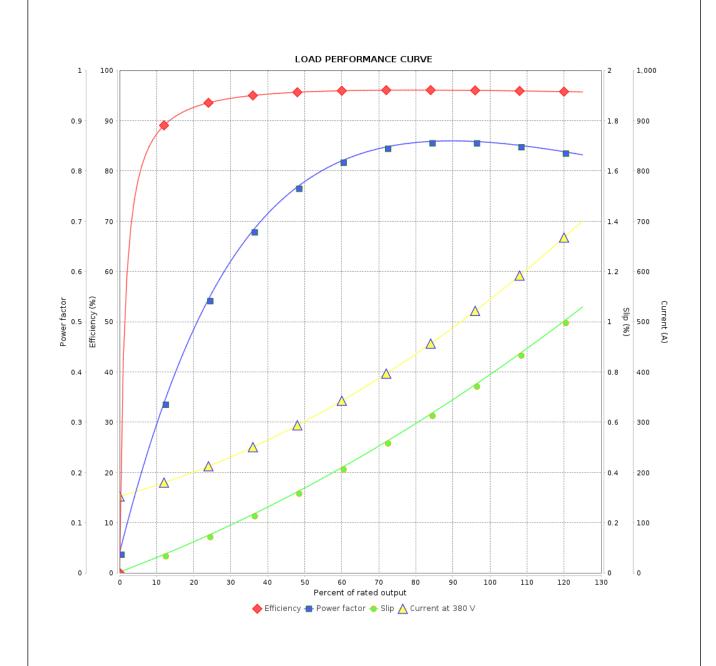
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Product code:

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Performance	: 380 V 50 Hz 4P IE3	: 380 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 552 A : 5.5 : 195 kgfm : 190 % : 210 % : 1488 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 8.99 kgm² : Cont.(S1) : F : 1.00 : 105 K : B				
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## Three Phase Induction Motor - Squirrel Cage



Customer :

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Product line : W22 NEMA Premium Efficiency Three-

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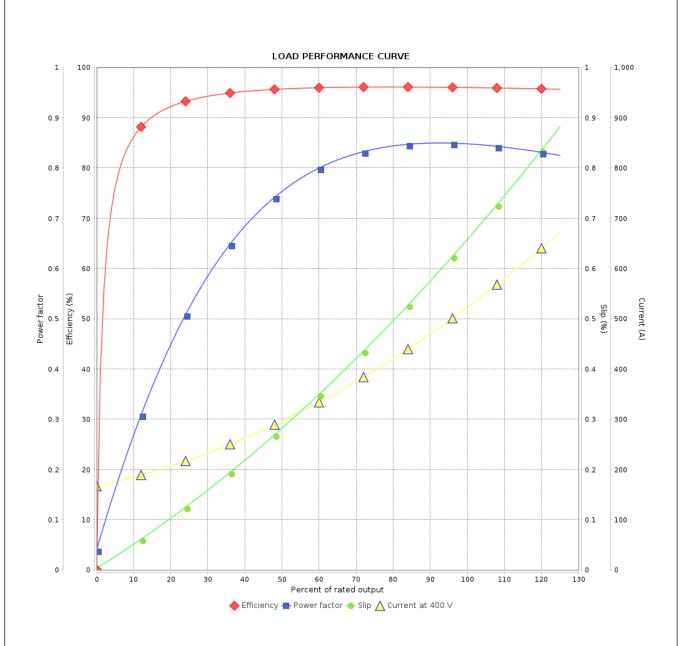
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Revision





Performance		: 400 V 50 Hz 4P IE	3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 531 A : 6.3 : 195 kgfm : 210 % : 229 % : 1490 rpm	Duty cyc Insulatio Service t	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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## Three Phase Induction Motor - Squirrel Cage

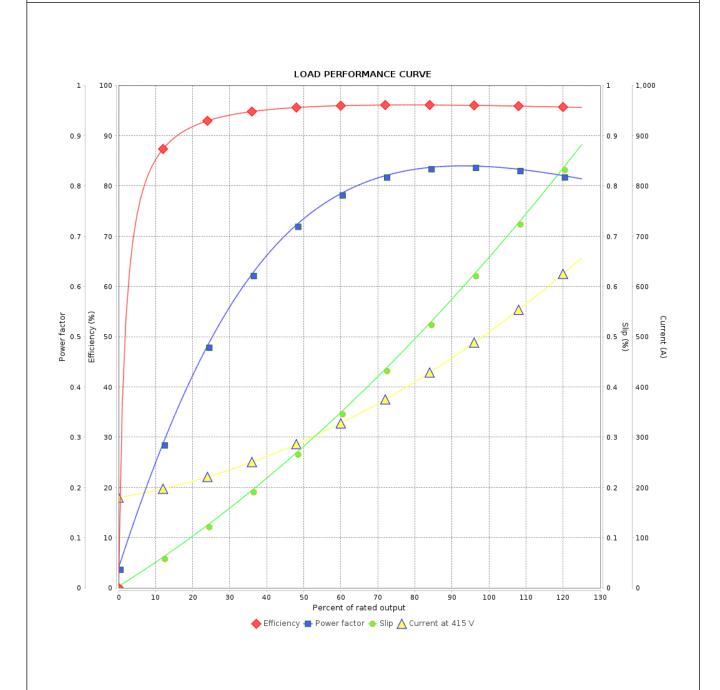


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Customer :

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

Phase



Performance	nance : 415 V 50 Hz 4P IE3					
Rated current		18 A	Moment of inertia (J)		: 8.99 kgm²	
LRC	: 6	.8	Duty cycle	}	: Cont.(S1)	
Rated torque	: 1	95 kgfm	Insulation	class	: F	
Locked rotor torqu	ocked rotor torque : 220 % Service factor		Service factor : 1.00			
Breakdown torque	e : 2	50 %	Temperature rise		: 105 K	
Rated speed	: 1	: 1490 rpm		Design		
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