### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 14646915 : 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 Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 1784 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 105 K Temperature rise Locked rotor time 48s (cold) 27s (hot) 43s (cold) 24s (hot) 41s (cold) 23s (hot) 39s (cold) 22s (hot) 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% 96.2 96.0 96.0 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 0.84 100% 0.85 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.4 4.4 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 2.7 Losses (%) 2.7 P5 (0,5;0,5) 1.7 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 6322 C3 Bearing type 6319 C3 : 2442 kgf Max. traction Sealing **Taconite** Taconite : 4227 kgf Max. compression Labyrinth Labyrinth 6000 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	im and with tolera	ance or +3dB(A).			
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#### Three Phase Induction Motor - Squirrel Cage



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Three Pha	se Induction	n Motor - Squirrel Ca	ige		
Customer	:				
		Space heater in	formation		
Voltage: 200 - 24	40 V				
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### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Three-

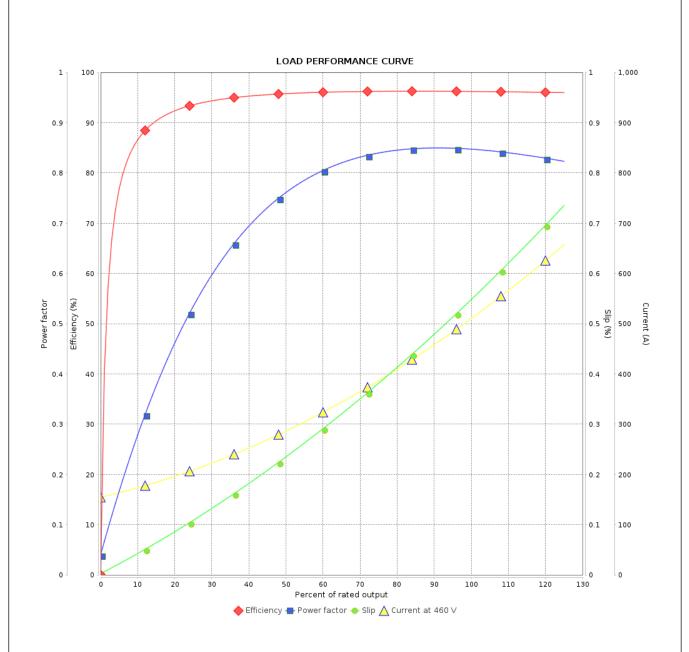
Product code:

14646915



15/01/2024

Date



Performance	: 460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 507 A : 6.3 : 182 kgfm : 220 % : 229 % : 1790 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 8.99 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:

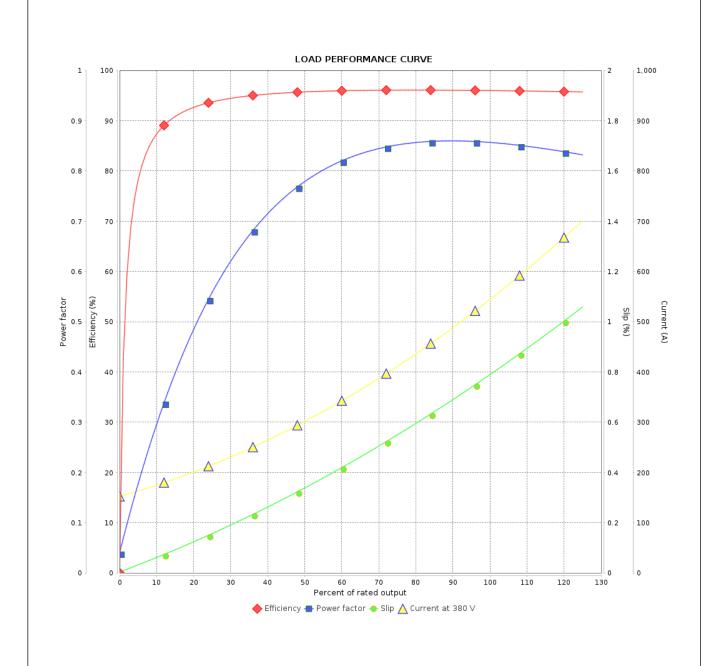
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Date



Performance	: 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 :

Product line : W22 NEMA Premium Efficiency Three-

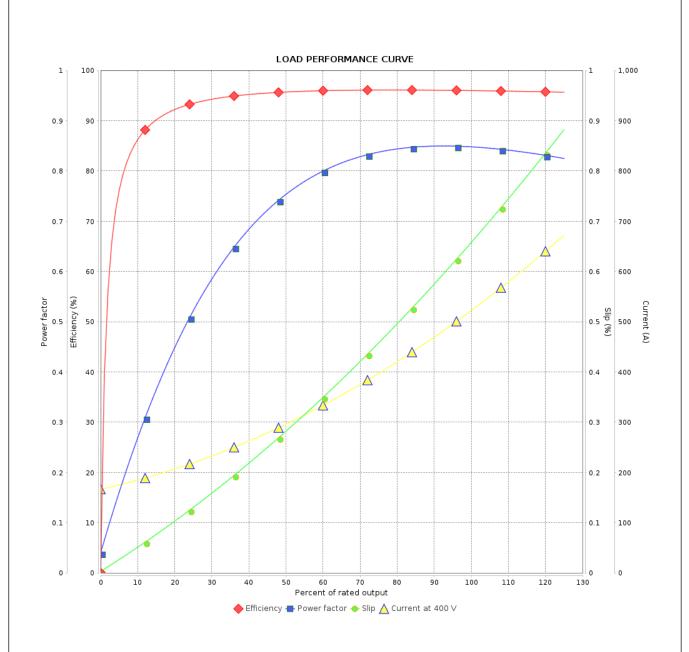
Product code:

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15/01/2024

Date



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 531 A : 6.3 : 195 kgfm : 210 % : 229 % : 1490 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

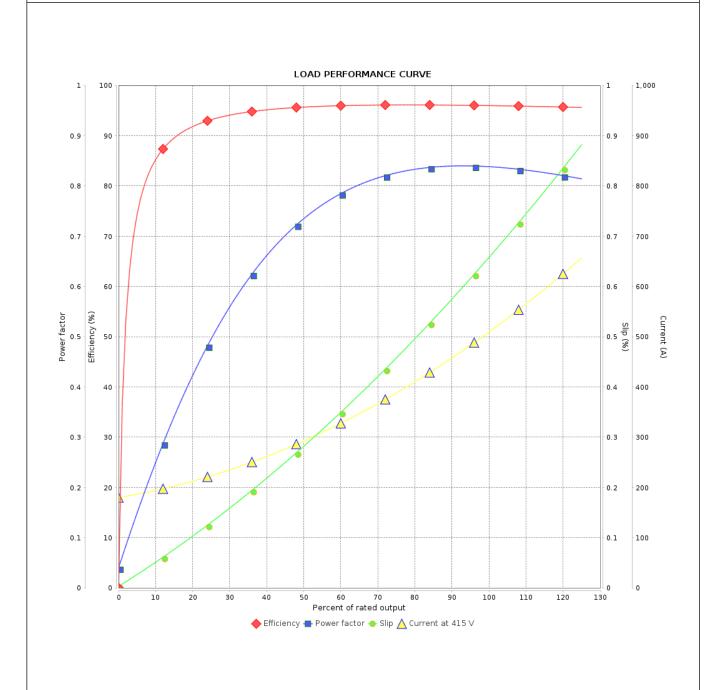


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Customer :

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

Phase



Performance	:	415 V 50 Hz 4P IE3				
Rated current	:	518 A	Moment o	f inertia (J)	: 8.99 kgm²	
LRC	:	6.8	Duty cycle	}	: Cont.(S1)	
Rated torque	:	195 kgfm	Insulation	Insulation class Service factor		
Locked rotor torque	e :	220 %	Service fa			
Breakdown torque	:	250 %	Temperati	ıre rise	: 105 K	
Rated speed	:	1490 rpm	Design		: B	
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