### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11442886 : 324/6T 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. : 268 kg Protection degree : IP55 Moment of inertia (J) : 0.5561 kgm<sup>2</sup> Design : B Output [HP] 30 25 25 30 25 30 30 Poles 6 6 6 6 6 6 6 50 Frequency [Hz] 60 50 50 50 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 43.7 Rated current [A] 72.4/36.2 36.9 36.2 35.4 41.7 40.7 L. R. Amperes [A] 449/224 214 228 237 214 225 236 LRC [A] 6.2x(Code 5.8x(Code | 6.3x(Code H)|6.7x(Code H)|4.9x(Code E)|5.4x(Code F)| 5.8x(Code G) G) G) No load current [A] 29.0/14.5 14.0 15.0 16.0 14.0 15.0 16.0 Rated speed [RPM] 1180 975 980 980 970 975 980 Slip [%] 1.67 2.50 2.00 2.00 3.00 2.50 2.00 Rated torque [kgfm] 18.5 18.5 18.5 18.4 22.4 22.3 22.2 Locked rotor torque [%] 220 190 220 240 160 180 200 Breakdown torque [%] 240 229 260 280 200 220 240 Service factor 1.25 1.00 1.15 1.15 1.00 1.15 1.15 Temperature rise 80 K Locked rotor time 37s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 27s (cold) 21s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 15s (hot) 62.0 dB(A) Noise level<sup>2</sup> 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 60.0 dB(A) 25% 91.5 91.2 91.2 90.4 92.1 92.1 91.3 50% 91.7 91.3 91.3 90.7 91.7 91.7 91.0 Efficiency (%) 75% 93.0 91.8 92.2 91.9 91.7 92.4 92.4 100% 93.0 91.7 92.1 92.0 91.0 91.7 91.7 25% 0.41 0.41 0.39 0.36 0.48 0.44 0.41 50% 0.64 0.61 0.58 0.71 0.65 0.65 0.68 Power Factor 75% 0.76 0.76 0.74 0.71 0.80 0.78 0.76 100% 0.82 0.83 0.80 0.79 0.84 0.83 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.3 7.3 7.3 7.3 7.3 7.3 7.3 P2 (0,5;1,0) 6.2 6.2 6.2 6.2 6.2 6.2 6.2 P3 (0,25;1,0) 6.0 6.0 6.0 6.0 6.0 6.0 6.0 P4 (0,9;0,5) 3.5 3.5 3.5 3.5 3.5 3.5 3.5 Losses (%) P5 (0,5;0,5) 2.4 2.4 2.4 2.4 2.4 2.4 2.4 P6 (0,5;0,25) 1.6 1.6 1.6 1.6 1.6 1.6 1.6 P7 1.1 1.1 1.1 1.1 1.1 1.1 1.1 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6312 C3 6212 C3 : 537 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 805 kgf Lubrication interval 20000 h 20000 h 13 g Lubricant amount 21 g Mobil Polyrex EM Lubricant type This revision replaces and cancel the previous one, which These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA must be eliminated. (1) Looking the motor from the shaft end. MG-1. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

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13/01/2024

Date

## DATA SHEET



Three Phase In	duction Motor - Squirrel C	age		<u> </u>		
Customer	:					
Notes USABLE @208V 79.2A	SE 1 15 SEA 01 0A					
USABLE @200V 19.2A	3F 1.13 3FA 91.0A					
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### Three Phase Induction Motor - Squirrel Cage



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Customer :

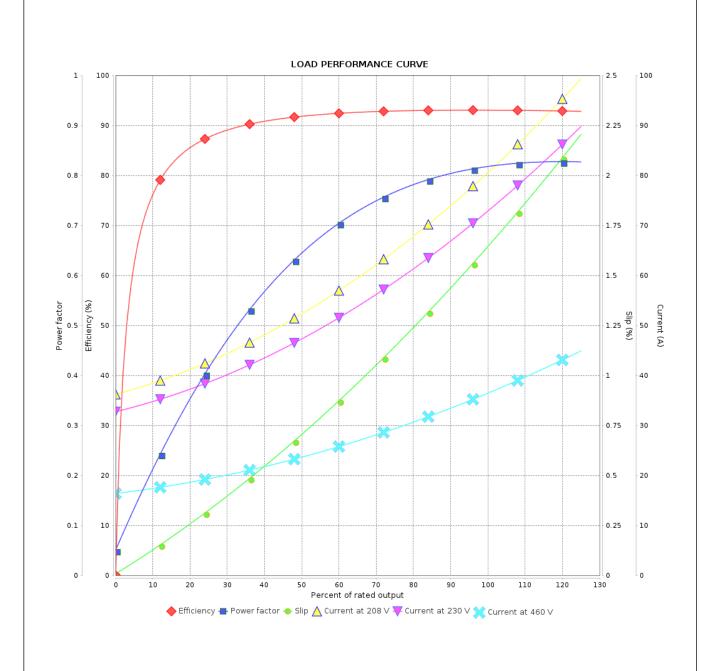
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Date

13/01/2024

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

Phase



Performance	: 230/460 V 60 Hz 6P				
LRC : 6.2 Duty cyc Rated torque : 18.5 kgfm Insulatio Locked rotor torque : 220 % Service		Duty cycle Insulation Service fa Temperate	class ctor	: 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 NEMA Premium Efficiency Three-

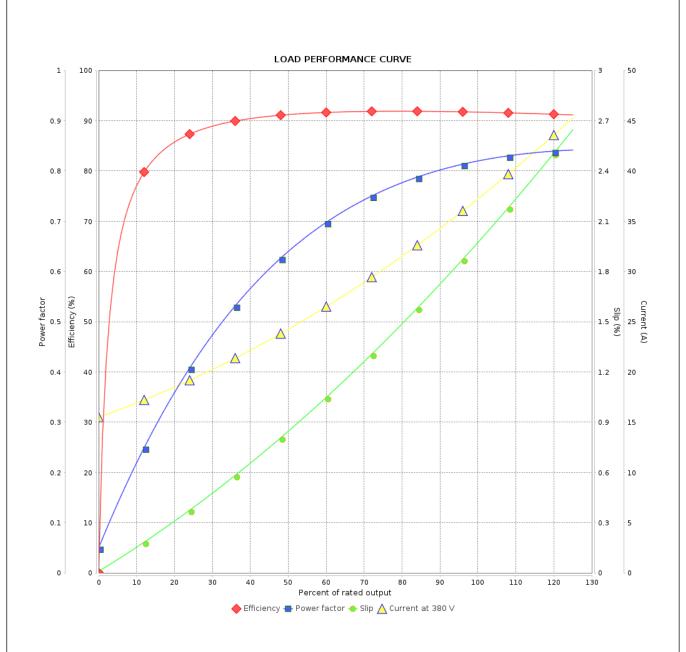
Product code:

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Phase

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Date



Performance	: 380 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 36.9 A : 5.8 : 18.5 kgfm : 190 % : 229 % : 975 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.5561 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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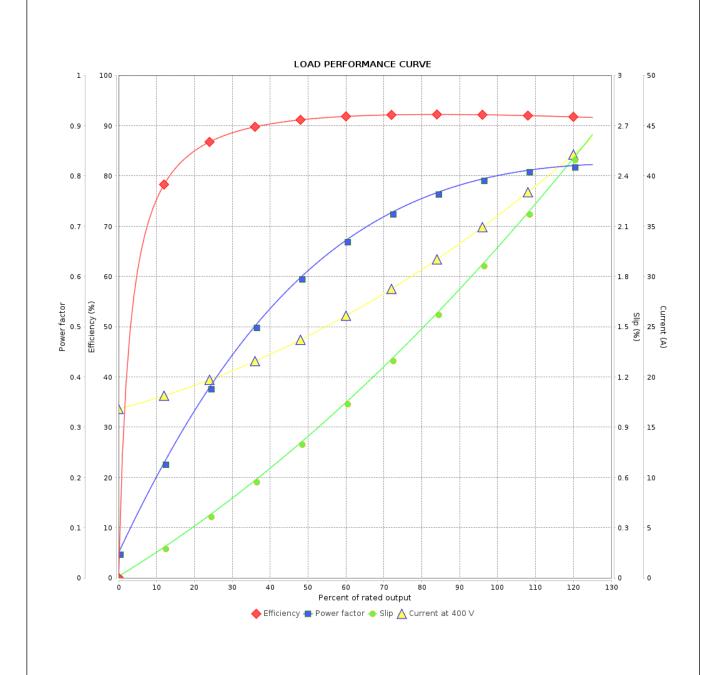


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Customer :

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

Phase



Performance	: 40	00 V 50 Hz 6P IE3				
Rated current LRC Rated torque	: 6	: 6.3		Moment of inertia (J) Duty cycle Insulation class		2
Locked rotor torq Breakdown torqu Rated speed	ue : 22 e : 20	220 % Service factor 260 % Temperature rise 280 rpm Design			: 1.15 : 80 K : B	
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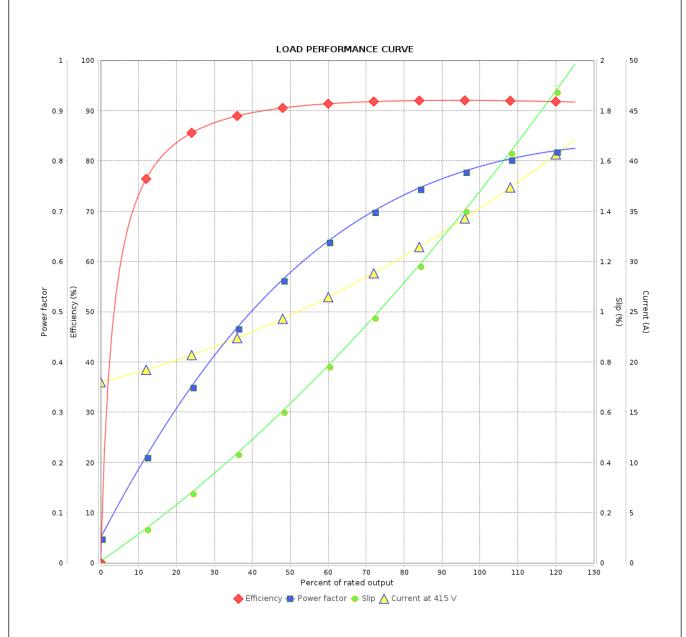


Customer

Product line : W22 NEMA Premium Efficiency ThreeProduct code:

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Performance	: 4	15 V 50 Hz 6P IE3				
Rated current	ted current : 35.4 A		Moment o	Moment of inertia (J)		2
LRC	: 6	5.7	Duty cycle	е	: Cont.(S1)	
Rated torque	: 1	8.4 kgfm	Insulation	class	: F	
•		40 %	Service fa	actor	: 1.15	
Breakdown torque		280 %	Temperat	Temperature rise		
Rated speed	: 9	980 rpm	Design		: B	
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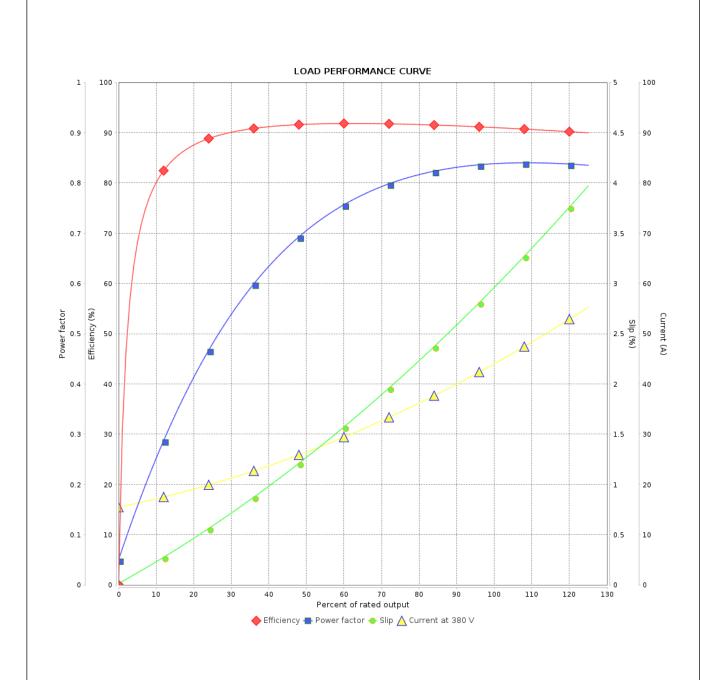


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Customer :

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

Phase



Performance	: 38	30 V 50 Hz 6P IE2				
Rated current	current : 43.7 A		43.7 A Moment of inertia		: 0.5561 kgm²	2
LRC	: 4.	9	Duty cycle	9	: Cont.(S1)	
Rated torque	: 22	2.4 kgfm	Insulation	class	: F	
Locked rotor torq	ue : 16	60 %	Service fa	ictor	: 1.00	
Breakdown torqu	e : 20	00 %	Temperature rise		: 80 K	
Rated speed	: 970 rpm Design			: B		
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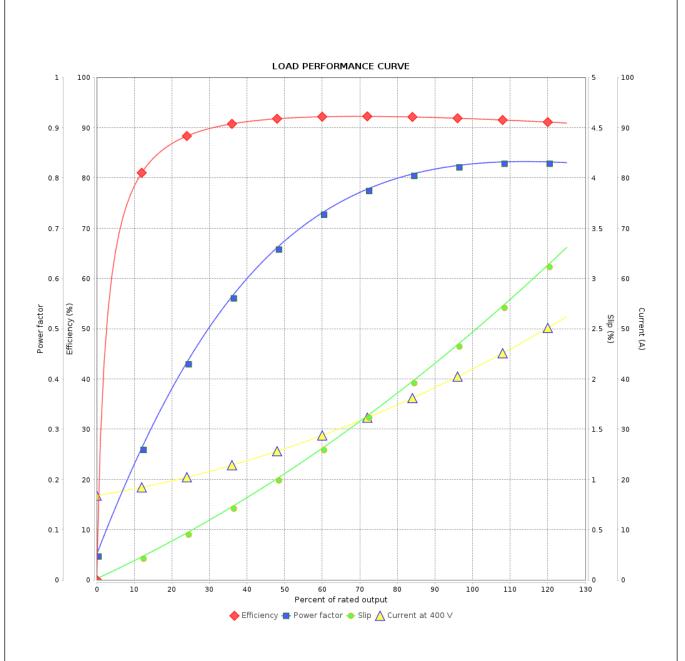
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency ThreeProduct code:

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Performance	: 4	100 V 50 Hz 6P IE2				
Rated current	ted current : 41.7 A Momer		: 41.7 A Moment of inertia (J)		: 0.5561 kgm²	
LRC	: 5	5.4	Duty cycle	9	: Cont.(S1)	
Rated torque	: 2	22.3 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 1	80 %	Service fa	actor	: 1.15	
Breakdown torque	down torque : 220 % Temperature rise		ure rise	: 80 K		
Rated speed	: 9	975 rpm	rpm Design		: B	
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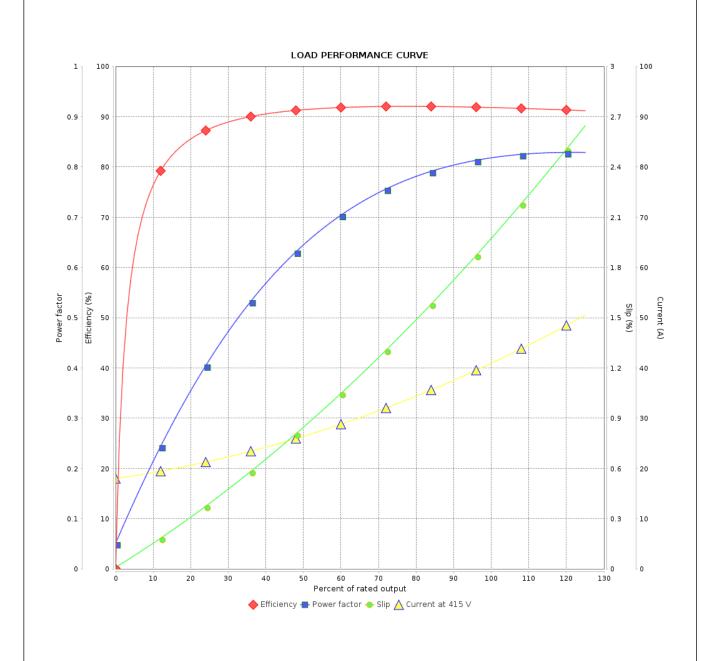


Customer :

Product line : W22 NEMA Premium Efficiency Three- Product

Phase

Product code: 11442886



Performance	: 4	: 415 V 50 Hz 6P IE2				
Rated current	: 40.7 A		Moment o	f inertia (J)	: 0.5561 kgm²	
LRC	: 5	5.8	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque	: 2	2.2 kgfm	Insulation	class	: F	
Locked rotor torque	e : 2	00 %	Service fa	ctor	: 1.15	
Breakdown torque	: 2	: 240 %		ıre rise	: 80 K	
Rated speed	: 9	: 980 rpm			: B	
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