#### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12445703 : 182/4T 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> : 41.9 kg Protection degree : IP55 Moment of inertia (J) : 0.0206 kgm<sup>2</sup> Design : B Output [HP] 1.5 1.5 1.5 1.5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 230/460 Rated voltage [V] 380 400 415 Rated current [A] 5.08/2.54 2.68 2.62 2.64 L. R. Amperes [A] 39.6/19.8 16.9 18.1 19.5 6.3x(Code J) LRC [A] 7.8x(Code M) 6.9x(Code K) 7.4x(Code L) No load current [A] 3.25/1.63 1.60 1.71 1.80 Rated speed [RPM] 1170 955 960 965 Slip [%] 2.50 4.50 4.00 3.50 Rated torque [kgfm] 0.930 1.14 1.13 1.13 Locked rotor torque [%] 320 250 300 330 Breakdown torque [%] 400 290 330 370 1.25 1.00 1.00 1.00 Service factor 80 K 80 K 80 K 80 K Temperature rise 28s (cold) 16s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) 25s (cold) 14s (hot) Locked rotor time Noise level<sup>2</sup> 52.0 dB(A) 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 84.0 85.5 84.5 84.0 Efficiency (%) 75% 86.5 85.5 86.5 86.5 100% 87.5 85.5 86.5 86.5 25% 0.45 50% 0.45 0.52 0.48 Power Factor 75% 0.54 0.63 0.60 0.57 0.62 0.70 100% 0.73 0.67 Losses at normative operating points (speed;torque), in percentage of rated output power 13.4 13.4 P1 (0,9;1,0) 13.4 13.4 P2 (0,5;1,0) 10.3 10.3 10.3 10.3 P3 (0,25;1,0) 9.3 9.3 9.3 9.3 P4 (0,9;0,5) Losses (%) 8.8 8.8 8.8 8.8 P5 (0,5;0,5) 5.8 5.8 5.8 5.8 P6 (0,5;0,25) 4.8 4.8 4.8 4.8 P7 (0,25;0,25) 3.5 3.5 3.5 3.5 Foundation loads Drive end Non drive end Bearing type 6207 ZZ 6206 ZZ : 66 kaf Max. traction Sealing V'Ring V'Ring : 108 kgf Max. compression Lubrication interval Lubricant amount 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). (3) Approximate weight subject to changes after

manufacturing p	rocess.				
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# DATA SHEET



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Customer	:			
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Customer :

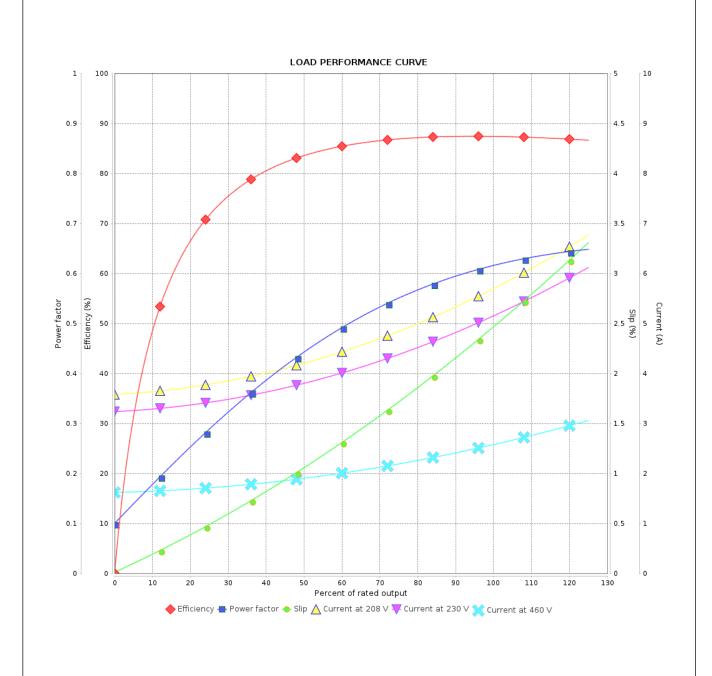
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31/01/2024

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

Phase



Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.08/2.54 A Moment of inertia (J) : 7.8 Duty cycle : 0.930 kgfm Insulation class : 320 % Service factor : 400 % Temperature rise : 1170 rpm Design		class ctor	: 0.0206 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



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Product line : W22 NEMA Premium Efficiency Three-

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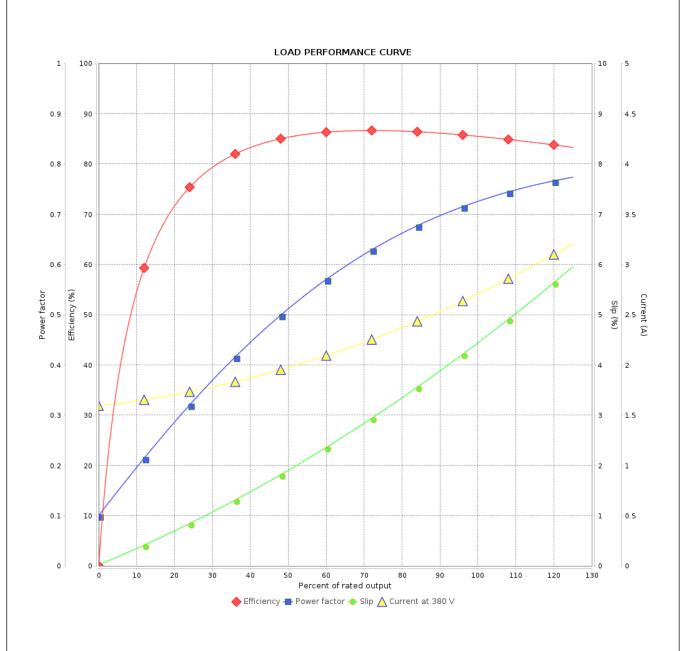
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Revision



Performance	: 38	80 V 50 Hz 6P IE4				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6. : 1. jue : 29	.68 A .3 .14 kgfm 50 % 90 % 55 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0206 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

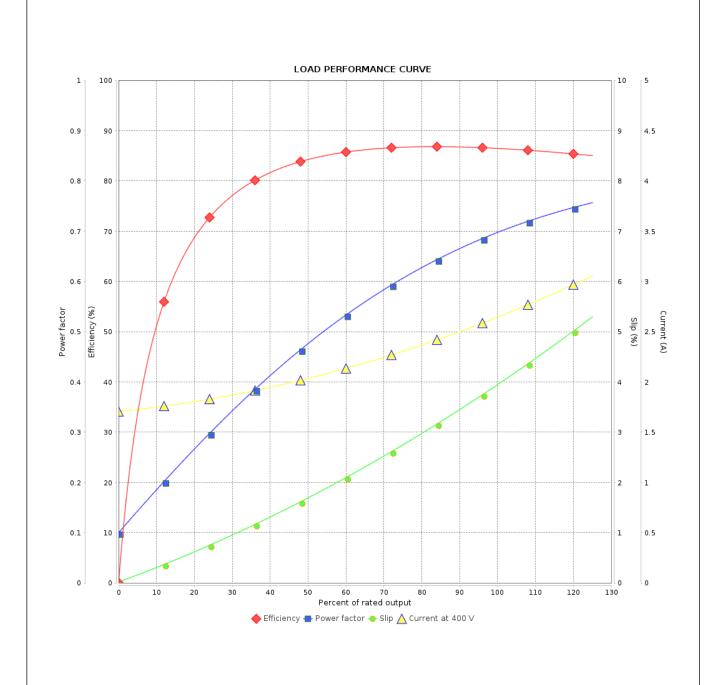


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Customer :

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

Phase



Performance	: 40	00 V 50 Hz 6P IE4				
Rated current		62 A	Moment of inertia (J)		: 0.0206 kgm²	
LRC	: 6.	.9	Duty cycle	Duty cycle		
Rated torque	: 1.	.13 kgfm	Insulation	class	: F	
Locked rotor torque		00 %	Service fa	ictor	: 1.00	
Breakdown torque	: 33	330 % Temperate		ture rise	: 80 K	
Rated speed	: 96	60 rpm	Design		: B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

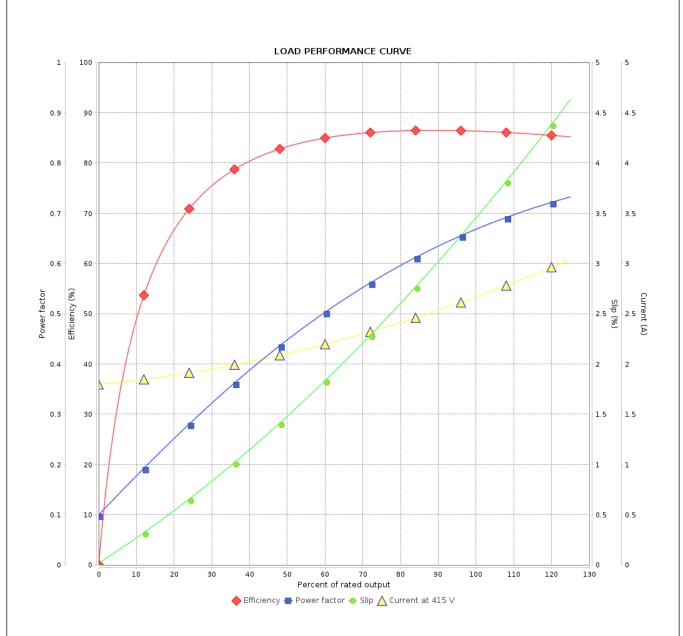
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Date



Performance	: 415 V 50 Hz 6P IE4				
Rated current	: 2.64 A	64 A Moment of inertia (J)		: 0.0206 kgm²	
LRC	: 7.4	Duty cycle		: Cont.(S1)	
Rated torque	: 1.13 kgfm	Insulation cl	ass	:F	
Locked rotor torque	: 330 %	Service factor		: 1.00	
Breakdown torque	: 370 %	Temperature	Temperature rise		
Rated speed	: 965 rpm	Design		: B	
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