#### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12438228 : 182/4T Cooling method : IC411 - TEFC Frame Insulation class Mounting : F-1 : F 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> : 42.4 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0168 kgm<sup>2</sup> Design : B Output [HP] 1 1 1 1 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 4.62/2.31 2.52 2.56 2.61 L. R. Amperes [A] 29.1/14.6 15.1 15.4 15.7 LRC [A] 6.3x(Code N) 6.0x(Code L) 6.0x(Code M) 6.0x(Code N) No load current [A] 4.00/2.00 2.00 2.10 2.20 Rated speed [RPM] 880 725 730 730 Slip [%] 2.22 3.33 2.67 2.67 Rated torque [kgfm] 0.825 1.00 0.994 0.994 Locked rotor torque [%] 300 280 310 330 Breakdown torque [%] 350 330 350 350 1.25 1.00 1.00 Service factor 1.00 80 K 80 K 80 K 80 K Temperature rise Locked rotor time 39s (cold) 22s (hot) 39s (cold) 22s (hot) 39s (cold) 22s (hot) 39s (cold) 22s (hot) Noise level<sup>2</sup> 50.0 dB(A) 46.0 dB(A) 46.0 dB(A) 46.0 dB(A) 25% 50% 72.5 74.7 72.0 70.0 Efficiency (%) 75% 77.0 75.5 75.5 74.0 100% 78.5 75.5 75.5 75.5 25% 50% 0.32 0.38 0.35 0.33 Power Factor 75% 0.42 0.50 0.46 0.43 0.56 0.53 100% 0.52 0.60 Losses at normative operating points (speed;torque), in percentage of rated output power 30.9 30.9 P1 (0,9;1,0) 26.1 30.9 P2 (0,5;1,0) 21.3 25.2 25.2 25.2 P3 (0,25;1,0) 18.8 22.3 22.3 22.3 P4 (0,9;0,5) 25.0 25.0 25.0 Losses (%) 21.1 P5 (0,5;0,5) 16.5 19.5 19.5 19.5 P6 (0,5;0,25) 15.5 18.3 18.3 18.3 P7 (0,25;0,25) 12.9 15.3 15.3 15.3 Non drive end Foundation loads Drive end Bearing type 6207 ZZ 6206 ZZ : 51 kaf Max. traction Sealing V'Ring V'Ring : 94 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 process.

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# DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			ШЕЦ
Customer	:			
Notes	: / 5.09A SF 1.15 SFA 5.85A			
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#### Three Phase Induction Motor - Squirrel Cage



12438228

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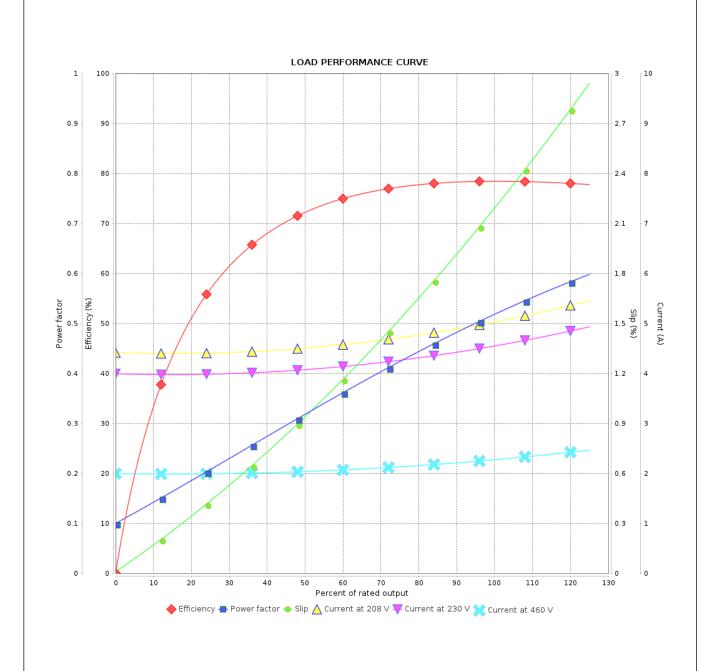
Customer :

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

Phase

31/01/2024

Date



Performance	: 230/460 V 60 Hz 8P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4.62/2.31 A : 6.3 : 0.825 kgfm : 300 % : 350 % : 880 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0168 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-

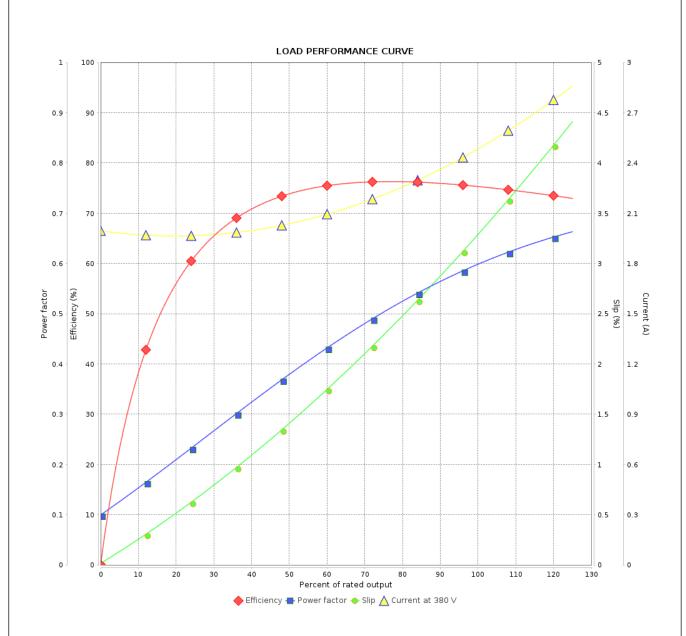
Product code:

12438228



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Date



Performance	: 380 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 2.52 A : 6.0 : 1.00 kgfm : 280 % : 330 % : 725 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0168 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage



Customer :

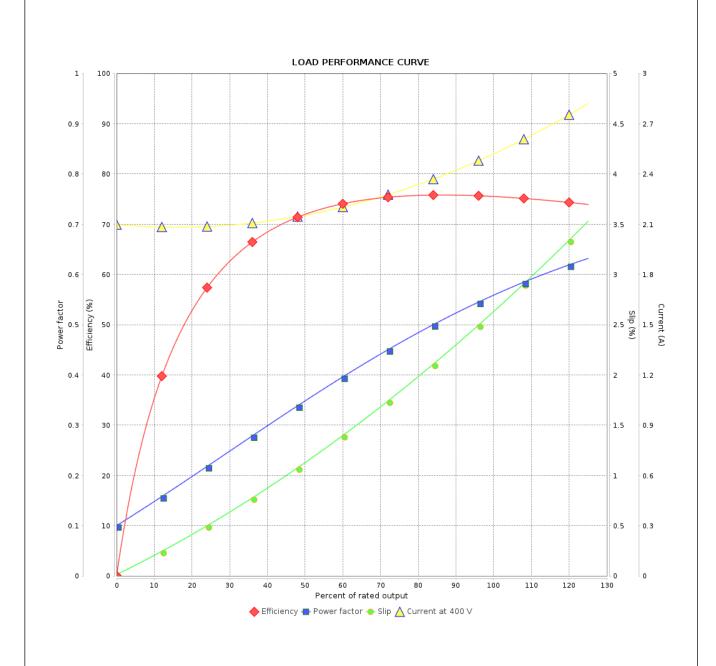
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Product line : W22 NEMA Premium Efficiency Three- Product code : 12438228

Phase



Performance	•	400 V 50 Hz 8P IE3					
renormance . 400 V 50 Hz of 1E3							
Rated current : 2.56 A		Moment o	Moment of inertia (J)		2		
LRC	: (	6.0	Duty cycle	)	: Cont.(S1)		
Rated torque	: (	0.994 kgfm	Insulation class		: F		
Locked rotor tord		310 %	Service fa	Service factor		: 1.00	
Breakdown torqu		350 %	Temperati	Temperature rise			
		730 rpm	Design		: B		
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Revision

#### Three Phase Induction Motor - Squirrel Cage



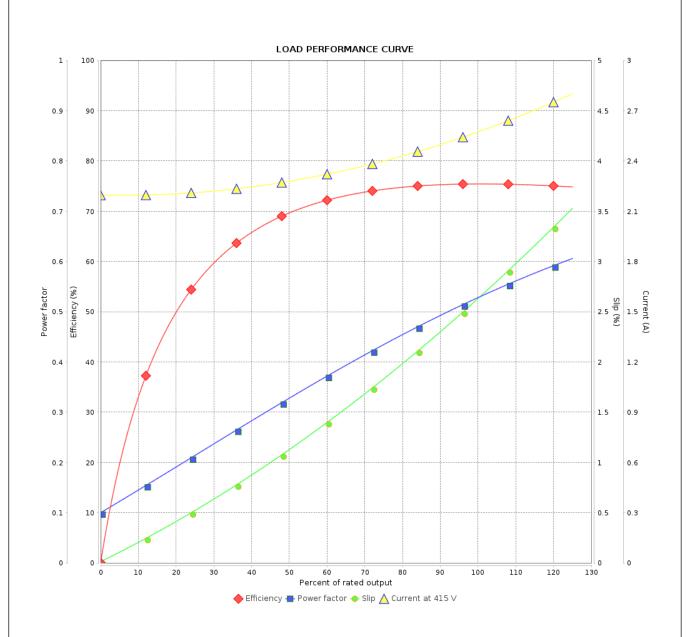
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

12438228





Performance	: 4	15 V 50 Hz 8P IE3				
Rated current : 2.61 A		.61 A	Moment o	of inertia (J)	: 0.0168 kgm²	
LRC	: 6	· · · · · · · · · · · · · · · · · · ·		Duty cycle : Cont.(S1)		
Rated torque :		.994 kgfm	Insulation	class	:F ´	
		30 %	Service fa	ictor	: 1.00	
Breakdown torque		50 %	Temperat	ure rise	: 80 K	
Rated speed		30 rpm	Design		: B	
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