### DATA SHEET

Date

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 13014332 Three-Phase : 213/5TD Cooling method Frame : IC411 - TEFC Insulation class Mounting : 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> : 82.6 kg Protection degree : IP55 Moment of inertia (J) : 0.0268 kgm<sup>2</sup> Design : B Output [HP] 10 10 7.5 7.5 7.5 10 10 Poles 2 2 2 2 2 2 2 50 50 50 Frequency [Hz] 60 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 14.1 Rated current [A] 23.2/11.6 10.4 10.1 9.91 13.4 13.1 82.2 L. R. Amperes [A] 167/83.5 87.9 90.2 79.0 85.8 90.4 LRC [A] 7.2x(Code H) 7.9x(Code J) 8.7x(Code K) 9.1x(Code K) 5.6x(Code F) 6.4x(Code 6.9x(Code H) G) No load current [A] 7.20/3.60 3.50 3.70 3.90 3.50 3.70 3.90 Rated speed [RPM] 3530 2940 2945 2950 2900 2915 2925 Slip [%] 1.94 2.00 1.83 1.67 3.33 2.83 2.50 Rated torque [kgfm] 2.06 1.85 1.85 1.85 2.49 2.49 2.48 Locked rotor torque [%] 220 240 270 290 170 200 220 Breakdown torque [%] 290 300 340 360 220 250 270 Service factor 1.25 1.25 1.25 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 21s (cold) Locked rotor time 32s (cold) 32s (cold) 32s (cold) 32s (cold) 21s (cold) 21s (cold) 12s (hot) 18s (hot) 18s (hot) 18s (hot) 18s (hot) 12s (hot) 12s (hot) Noise level<sup>2</sup> 68.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 50% 89.5 88.6 88.4 87.7 89.5 89.5 89.5 Efficiency (%) 75% 90.2 89.6 89.6 89.5 89.5 89.5 89.5 100% 90.2 89.5 89.5 89.8 88.5 88.5 88.5 25% 50% 0.79 0.75 0.72 0.70 0.83 0.81 0.79 Power Factor 75% 0.87 0.83 0.82 0.90 0.88 0.87 0.86 100% 0.90 0.90 0.88 0.91 0.91 0.90 0.86 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.7 10.7 10.7 10.7 10.7 10.7 10.7 P2 (0,5;1,0) 8.7 8.7 8.7 8.7 8.7 8.7 8.7 P3 (0,25;1,0) 7.8 7.8 7.8 7.8 7.8 7.8 7.8 P4 (0,9;0,5) 5.2 5.2 5.2 5.2 5.2 5.2 5.2 Losses (%) P5 (0,5;0,5) 3.3 3.3 3.3 3.3 3.3 3.3 3.3 P6 (0,5;0,25) 2.1 2.1 2.1 2.1 2.1 2.1 2.1 P7 1.3 1.3 1.3 1.3 1.3 1.3 1.3 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ : 82 kgf Max. traction : 165 kgf Sealing V'Rina V'Rina Max. compression Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM Rev. Changes Summary Performed Checked Date Performed by Checked by Page Revision 18/07/2024 1/9

## DATA SHEET



es ABLE @208V 25.7A SF 1.15 SFA 29.5A	
ABLE @208V 25.7A SF 1.15 SFA 29.5A	

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

MG-1.

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### Three Phase Induction Motor - Squirrel Cage



Customer :

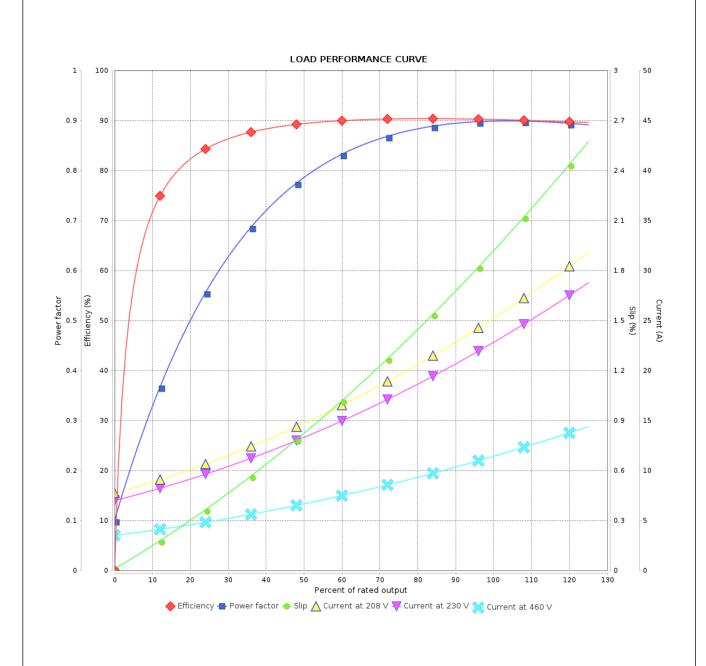
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Date

18/07/2024

Product line : W22 NEMA Premium Efficiency Product code : 13014332

Three-Phase



Performance		: 230/460 V 60 Hz 2				
. 230/400 V 00 HZ 2F			<u> </u>			
Rated current : 23.2/11.6 A		Moment of	Moment of inertia (J)			
LRC	:	: 7.2		•	: Cont.(S1)	
Rated torque	:			Insulation class		
Locked rotor tord		•		Service factor		
Breakdown torqu	ie :	: 290 %		ure rise	: 80 K	
Rated speed	:	: 3530 rpm			: B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

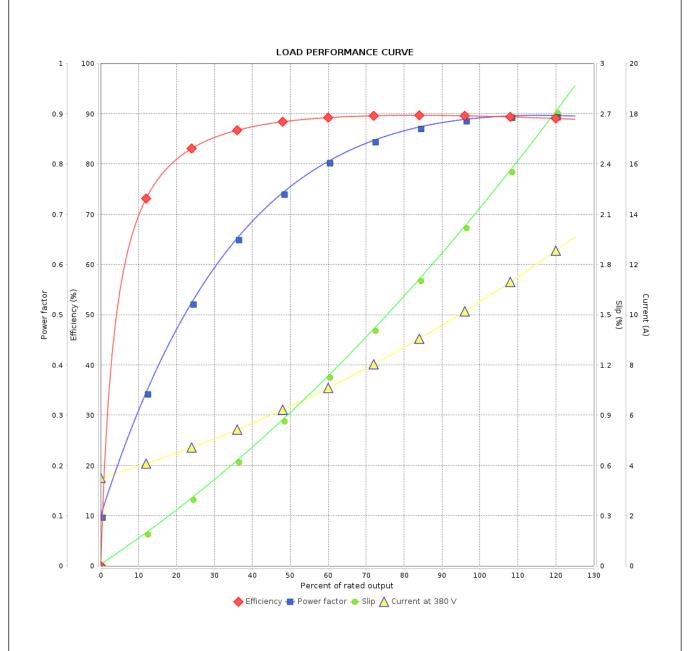
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

13014332

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Performance	: 380 V 50 Hz 2P IE3			
renormance	. 300 V 30 HZ ZP IE3			
Rated current	: 10.4 A	Moment of inertia (J)	: 0.0268 kgm <sup>2</sup>	2
LRC	: 7.9	Duty cycle	: Cont.(S1)	
Rated torque	: 1.85 kgfm	Insulation class	: F	
Locked rotor torque	: 240 %	Service factor	: 1.25	
Breakdown torque	: 300 %	Temperature rise	: 80 K	
Rated speed	: 2940 rpm	Design	: B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

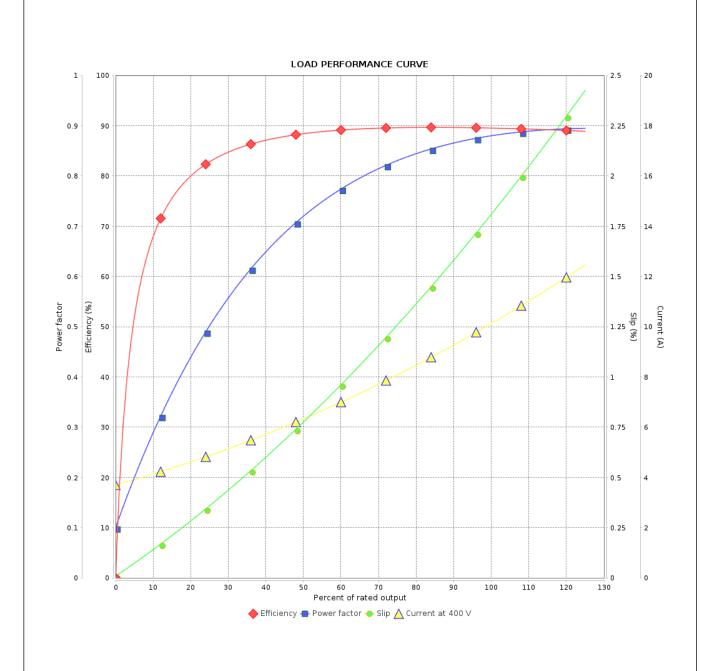
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Product line : W22 NEMA Premium Efficiency Product code : 13014332

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
		Moment of inertia (J)		: 0.0268 kgm²	
LRC	: 8.7	Duty cycle		: Cont.(S1)	
Rated torque	: 1.85 kgfm	Insulation class		: F	
Locked rotor torque	: 270 %	Service factor		: 1.25	
Breakdown torque	: 340 %	Temperati	ure rise	: 80 K	
Rated speed	ted speed : 2945 rpm Design			: B	
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### Three Phase Induction Motor - Squirrel Cage

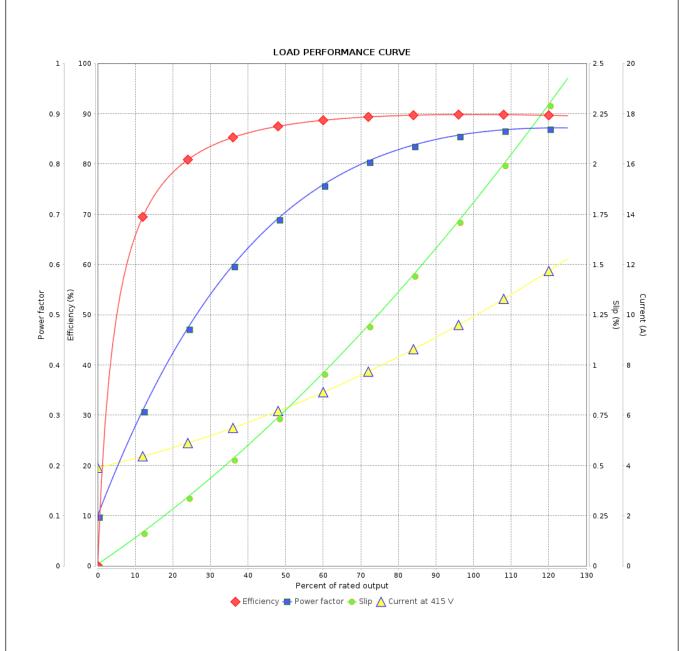


Customer

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13014332



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current	: 9.91 A M		Moment of	Moment of inertia (J)		2
LRC	: 9	).1	Duty cycle		: Cont.(S1)	
Rated torque	: 1	: 1.85 kgfm	Insulation	Insulation class		
Locked rotor tord	que : 2	90 %	Service fa	Service factor		
Breakdown torqu	ie : 3	860 %	Temperat	Temperature rise		
Rated speed	: 2950 rpm Design			: B		
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### Three Phase Induction Motor - Squirrel Cage



Customer :

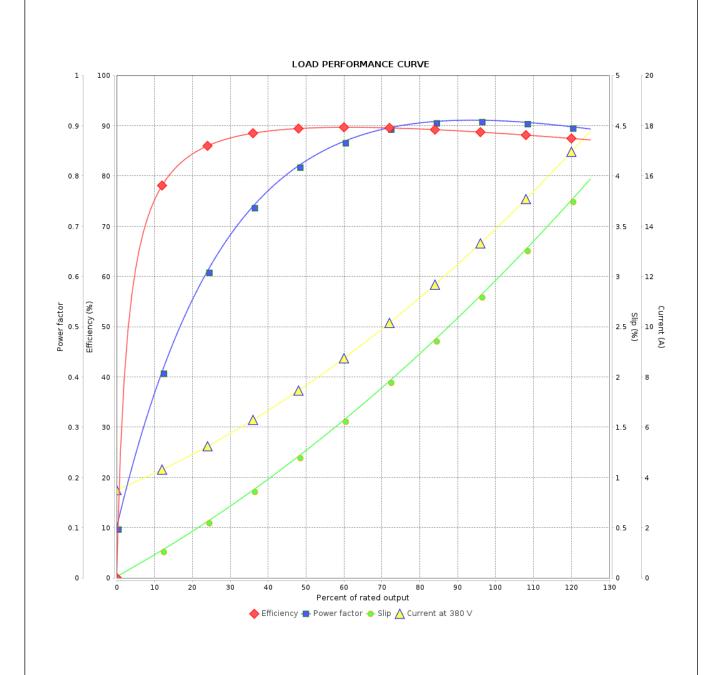
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Product line : W22 NEMA Premium Efficiency Product code : 13014332

Three-Phase



Performance	: 380 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 14.1 A : 5.6 : 2.49 kgfm : 170 % : 220 % : 2900 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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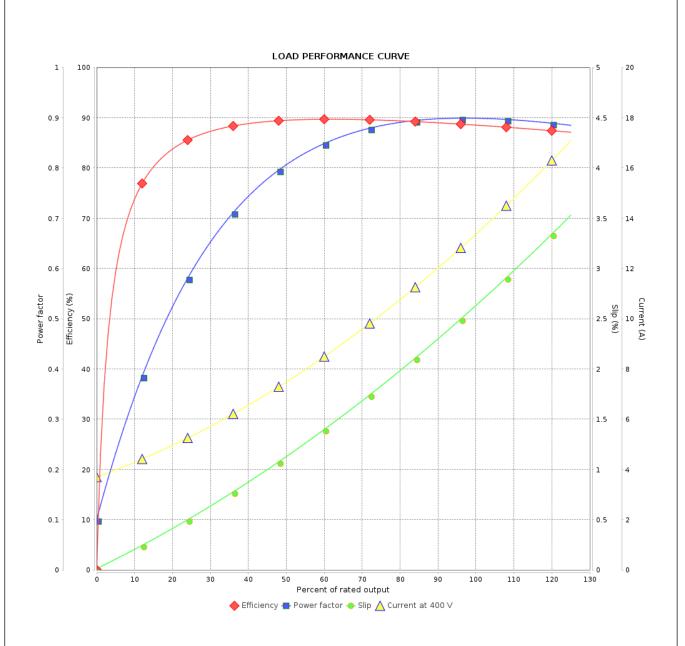
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 13014332



Performance : 400 V 50 Hz 2P IE2		IE2					
LRC       : 6.4       [         Rated torque       : 2.49 kgfm       [         Locked rotor torque       : 200 %       [         Breakdown torque       : 250 %       [		Dut Insi Ser Ten	y cycle ulation vice fa	class	: 0.0268 kgm² : Cont.(S1) : F : 1.00 : 105 K : B		
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### Three Phase Induction Motor - Squirrel Cage

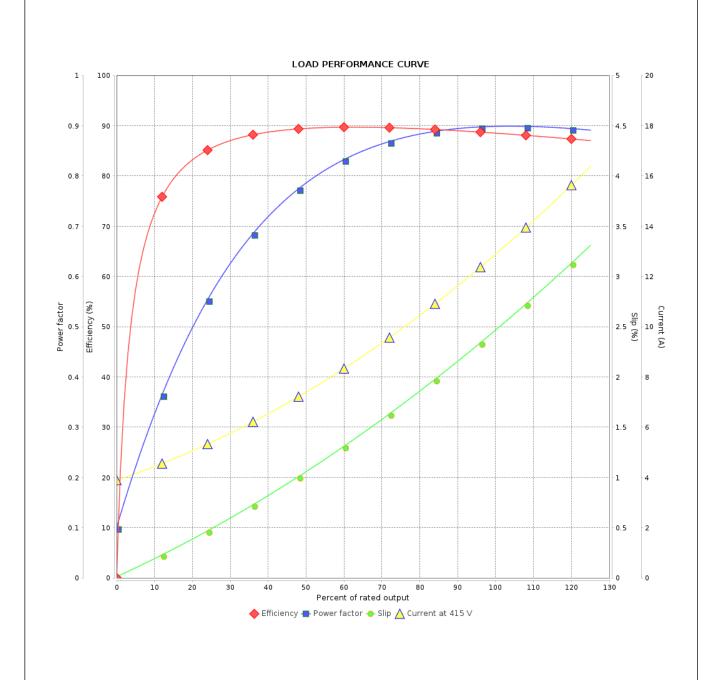


Customer

Performed by Checked by

Product line : W22 NEMA Premium Efficiency Product code: 13014332

Three-Phase



Rev.	Changes Summary	,	Performed	Checked	Date
Rated speed	: 2925 rpm	Design		: B	
Breakdown torque	: 270 %	Temperature rise		: 105 K	
Locked rotor torque	: 220 %	Service factor		: 1.00	
Rated torque	: 2.48 kgfm	Insulation class		: F	
LRC	: 6.9	Duty cycle		: Cont.(S1)	
Rated current	: 13.1 A	Moment of inertia (J)		: 0.0268 kgm <sup>2</sup>	2
Performance	: 415 V 50 Hz 2P IE2				

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