DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12438231 Three-Phase : 143/5T Cooling method Frame : IC411 - TEFC Insulation class Mounting : F : F-1 Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ : 20.2 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0020 kgm² Design : B Output [HP] 1.5 1 1 1 1.5 1.5 1.5 Poles 2 2 2 2 2 2 2 50 50 50 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 380 400 415 415 Rated current [A] 2.36 2.21 3.92/1.96 1.69 1.66 1.65 2.24 L. R. Amperes [A] 34.9/17.4 15.5 16.1 16.8 15.8 16.6 17.5 LRC [A] 8.9x(Code L) 9.2x(Code 9.7x(Code 10.2x(Code | 6.7x(Code H) | 7.4x(Code J) | 7.9x(Code K) M) M) N) 0.900 No load current [A] 1.66/0.830 0.780 0.840 0.900 0.780 0.840 Rated speed [RPM] 3480 2905 2915 2920 2835 2860 2870 Slip [%] 3.33 3.17 2.83 2.67 5.50 4.67 4.33 Rated torque [kgfm] 0.313 0.250 0.249 0.249 0.384 0.381 0.379 Locked rotor torque [%] 310 340 380 420 220 260 280 Breakdown torque [%] 370 390 440 480 260 290 310 1.25 Service factor 1.25 1.25 1.25 1.25 1.25 1.25 Temperature rise 80 K 27s (cold) Locked rotor time 37s (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) Noise level² 68.0 dB(A) 25% 50% 81.5 80.5 79.3 78.9 81.0 82.0 82.0 Efficiency (%) 75% 84.0 83.2 82.8 82.7 81.5 82.5 82.5 100% 84.0 83.4 83.4 83.4 81.5 82.5 82.5 25% 50% 0.68 0.63 0.58 0.55 0.75 0.70 0.67 Power Factor 75% 0.78 0.74 0.71 0.68 0.84 0.80 0.78 100% 0.84 0.81 0.78 0.76 0.87 0.86 0.84 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 17.7 17.7 17.7 17.7 17.7 17.7 17.7 P2 (0,5;1,0) 13.3 13.3 13.3 13.3 13.3 13.3 13.3 P3 (0,25;1,0) 12.1 12.1 12.1 12.1 12.1 12.1 12.1 P4 (0,9;0,5) 9.8 9.8 9.8 9.8 9.8 9.8 9.8 Losses (%) P5 (0,5;0,5) 5.6 5.6 5.6 5.6 5.6 5.6 5.6 P6 (0,5;0,25) 3.8 3.8 3.8 3.8 3.8 3.8 3.8 P7 2.4 2.4 2.4 2.4 2.4 2.4 2.4 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ : 23 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 43 kgf Lubrication interval Lubricant amount 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 20/10/2024 1/9 Date

DATA SHEET



Three Phase Induction Motor - Squirrel Cage	<u> WEY</u>
Customer :	
Notes	
USABLE @208V 4.20A SF 1.15 SFA 4.83A	

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Three Phase Induction Motor - Squirrel Cage



Customer :

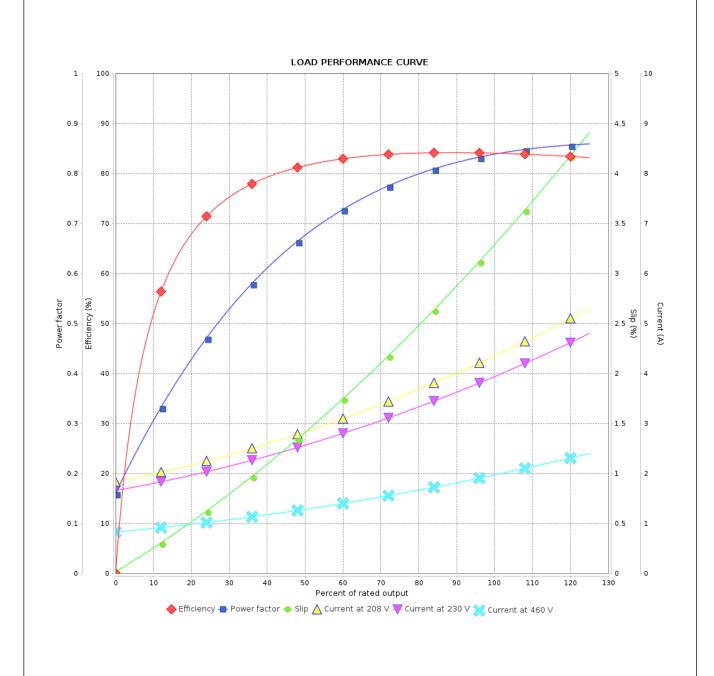
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Date

20/10/2024

Product line : W22 NEMA Premium Efficiency Product code : 12438231

Three-Phase



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.92/1.96 A : 8.9 : 0.313 kgfm : 310 % : 370 % : 3480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0020 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

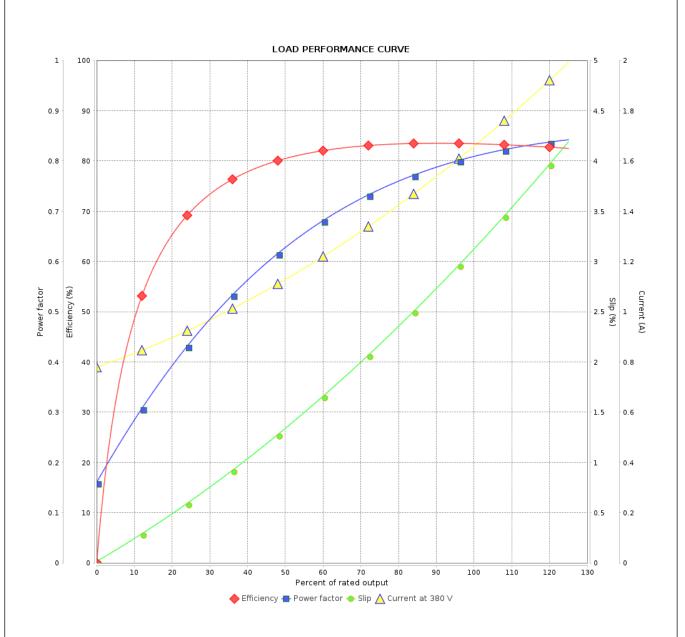


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12438231



Performance	: 380 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.69 A : 9.2 : 0.250 kgfm : 340 % : 390 % : 2905 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: Cont.(S1) : F : 1.25	
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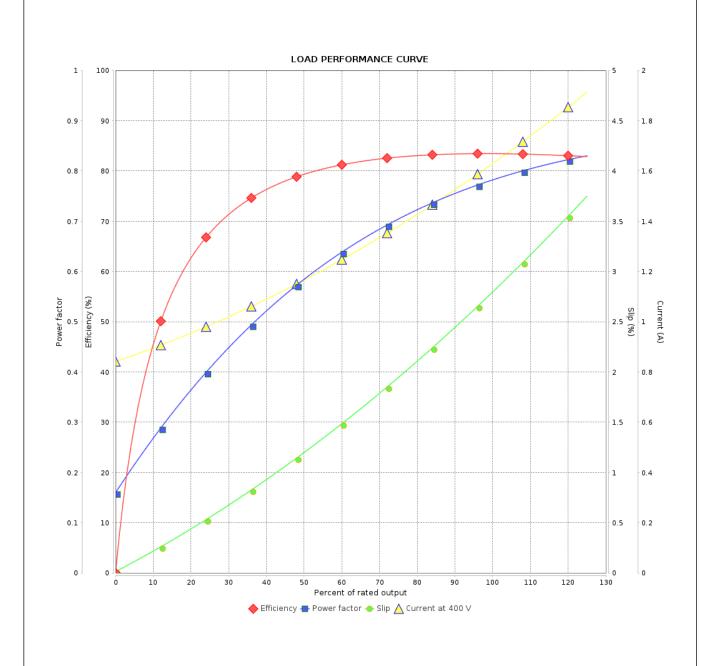
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12438231

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.66 A : 9.7 : 0.249 kgfm : 380 % : 440 % : 2915 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ector	: 0.0020 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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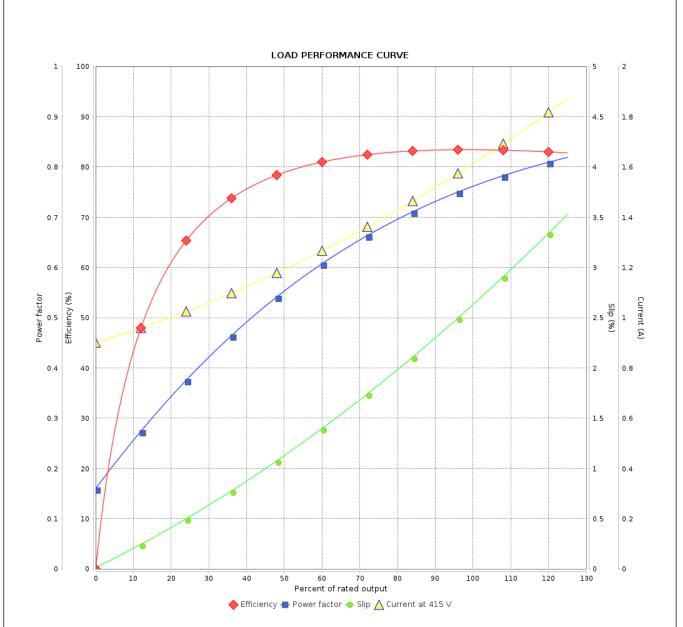


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12438231



Performance	: 415 V 50 Hz 2P IE3	15 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Duty cycle Insulation Service fa	Moment of inertia (J) : 0.0020 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.25 Temperature rise : 80 K Design : B		2
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Three Phase Induction Motor - Squirrel Cage



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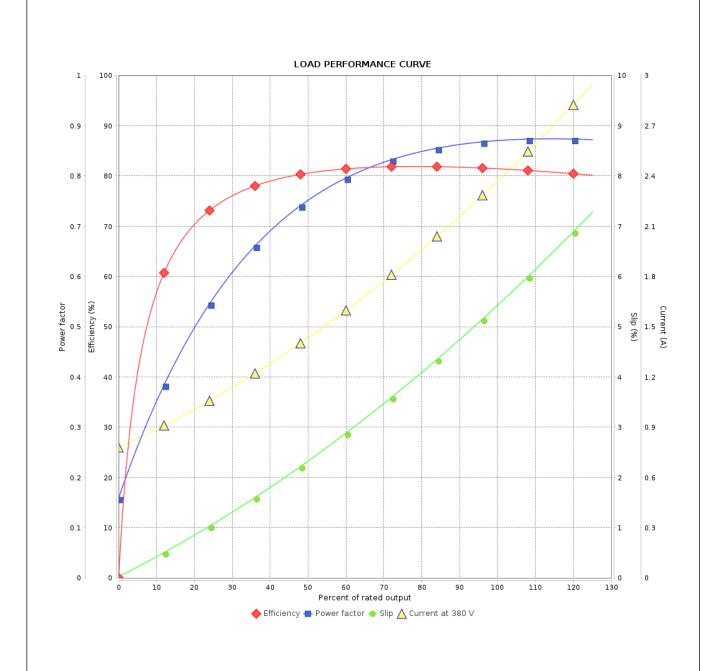
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Product line : W22 NEMA Premium Efficiency Product code : 12438231

Three-Phase



Performance		: 380 V 50 Hz 2P I	E2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 2.36 A : 6.7 : 0.384 kgfm : 220 % : 260 % : 2835 rpm	Duty cy Insulati Service	on class	: 0.0020 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage



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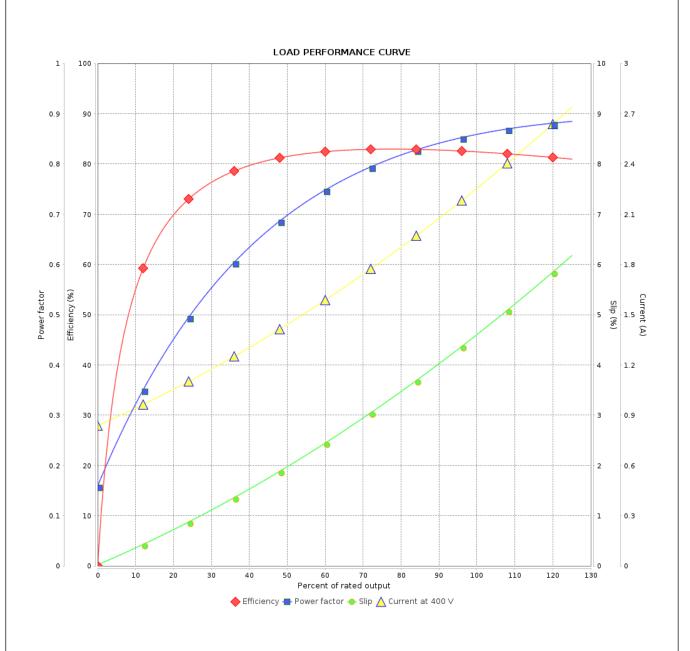
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12438231



Performance : 400 V 50 Hz 2P IE2 : 2.24 A : 0.0020 kgm² Rated current Moment of inertia (J) **LRC** : 7.4 Duty cycle : Cont.(S1) : 0.381 kgfm Insulation class : F Rated torque Locked rotor torque : 260 % Service factor : 1.25 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2860 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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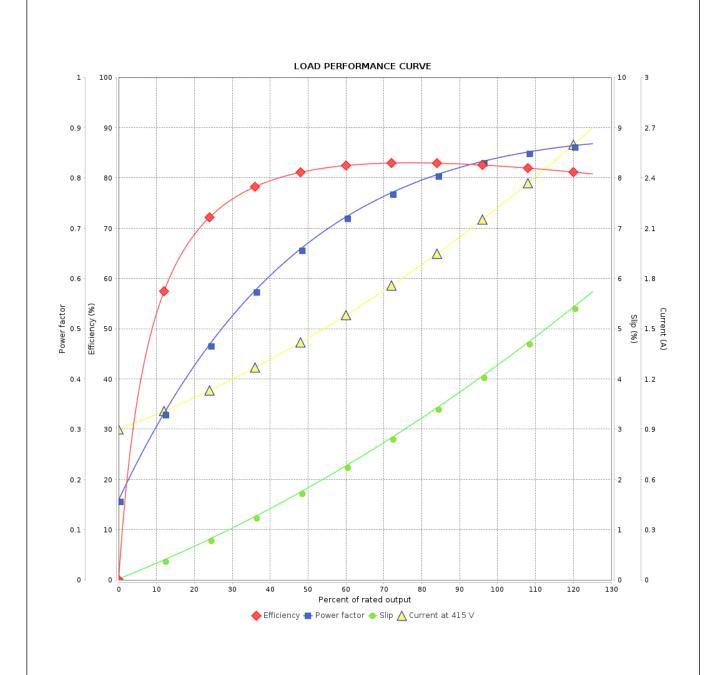
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12438231

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current : 2.21 A Moment of inertia (J)		tia (J)	: 0.0020 kgm²		
LRC	: 7.9	Duty cycle		: Cont.(S1)	
Rated torque	: 0.379 kgfm	Insulation class	3	: F	
Locked rotor torque	: 280 %	Service factor Temperature rise		: 1.25	
Breakdown torque	: 310 %			: 80 K	
Rated speed	: 2870 rpm	Design		: B	
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