DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12375663 Three-Phase : 254/6T 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 : 122 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0530 kgm² Design : B Output [HP] 15 10 10 10 15 15 15 Poles 2 2 2 2 2 2 2 50 50 50 50 Frequency [Hz] 60 50 50 Rated voltage [V] 380 400 230/460 380 400 415 415 Rated current [A] 21.0 34.5/17.2 14.5 14.0 13.7 19.9 19.3 L. R. Amperes [A] 231/116 109 117 116 107 112 118 LRC [A] 6.7x(Code | 7.5x(Code J) | 8.3x(Code K) | 8.5x(Code K) | 5.1x(Code E) | 5.6x(Code F) | 6.1x(Code G) G) No load current [A] 10.6/5.30 5.10 5.40 5.70 5.10 5.40 5.70 Rated speed [RPM] 3532 2945 2952 2957 2900 2915 2925 Slip [%] 1.89 1.83 1.60 1.43 3.33 2.83 2.50 Rated torque [kgfm] 3.08 2.46 2.46 2.45 3.75 3.73 3.72 Locked rotor torque [%] 220 200 229 250 170 190 200 200 Breakdown torque [%] 270 310 350 380 229 240 1.00 Service factor 1.25 1.25 1.25 1.25 1.00 1.15 Temperature rise 80 K 80 K 80 K 80 K 105 K 105 K 105 K 27s (cold) Locked rotor time 36s (cold) 50s (cold) 45s (cold) 41s (cold) 25s (cold) 27s (cold) 20s (hot) 15s (hot) 28s (hot) 25s (hot) 23s (hot) 14s (hot) 15s (hot) Noise level² 72.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 67.0 dB(A) 25% 0.000 89.5 50% 89.5 90.3 90.1 89.9 90.2 90.2 Efficiency (%) 75% 91.0 90.5 90.7 90.8 90.2 90.2 91.0 100% 91.0 90.5 90.7 90.8 88.5 89.5 90.2 0.00 25% 50% 0.77 0.73 0.69 0.67 0.82 0.80 0.77 Power Factor 75% 0.85 0.83 0.80 0.78 0.88 0.87 0.85 100% 0.88 0.87 0.85 0.84 0.90 0.89 0.88 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.1 9.6 9.4 9.3 10.8 10.0 11.9 P2 (0,5;1,0) 6.6 7.1 6.9 6.8 8.7 7.9 7.3 P3 (0,25;1,0) 7.4 6.2 6.6 6.5 6.4 8.2 6.8 P4 (0,9;0,5) 5.1 5.4 5.3 5.2 6.7 6.1 5.6 Losses (%) P5 (0,5;0,5) 2.8 2.9 2.9 2.8 3.6 3.3 3.0 P6 (0,5;0,25) 1.9 2.0 2.0 1.9 2.5 2.2 2.1 P7 1.2 1.1 1.4 1.3 1.2 1.1 1.1 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6309 C3 6209 C3 : 79 kgf Max. traction Sealing V'Ring V'Ring Max. compression : 201 kgf Lubrication interval 19000 h 20000 h Lubricant amount 13 q 9 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 20/10/2024 1/9 Date

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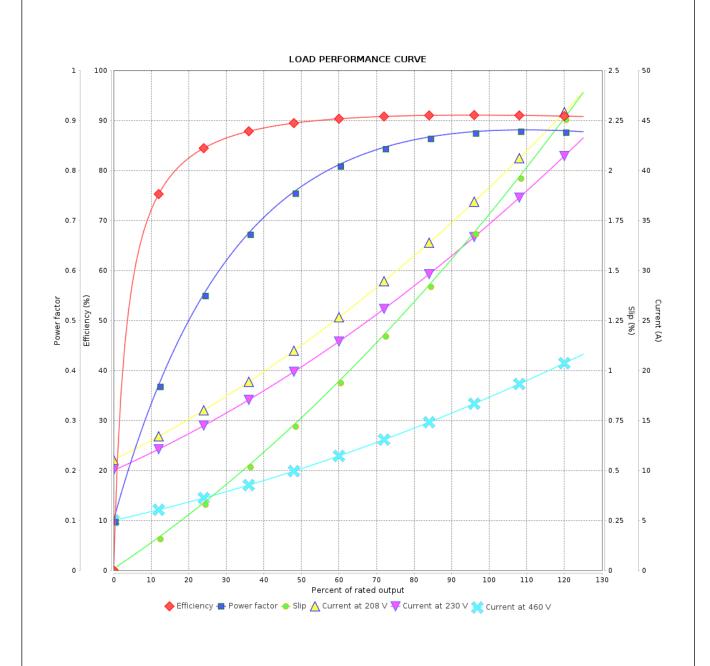
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12375663

Three-Phase



Performance		: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	•	: 34.5/17.2 A : 6.7 : 3.08 kgfm : 220 % : 270 % : 3532 rpm	Moment of Duty cycl Insulation Service for Temperat Design	class actor	: 0.0530 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage



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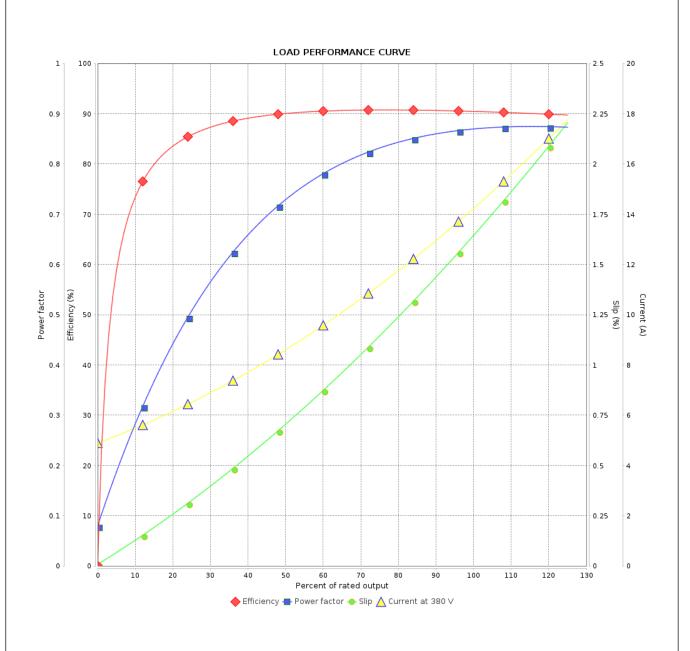
Date

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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12375663



Performance : 380 V 50 Hz 2P IE3 : 14.5 A : 0.0530 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.5 : 2.46 kgfm Insulation class Rated torque : F Locked rotor torque : 200 % Service factor : 1.25 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 2945 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

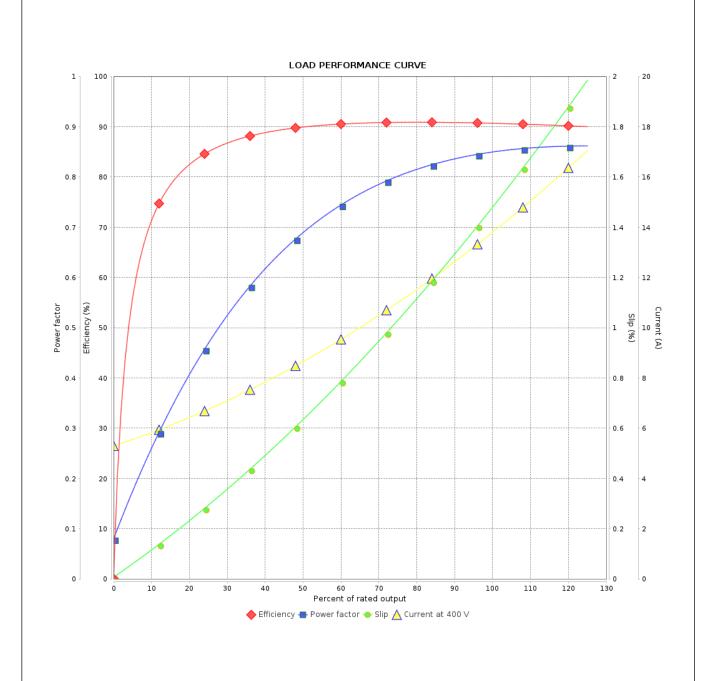


Customer :

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Product line : W22 NEMA Premium Efficiency Product code : 12375663

Three-Phase



Performance	: 400 V 50 Hz 2P IE3				
1 enormance	. 400 V 30 HZ 21 HL3				
Rated current	: 14.0 A	Moment of inertia (J)		: 0.0530 kgm²	
LRC	: 8.3	Duty cycle		: Cont.(S1)	
Rated torque	: 2.46 kgfm	Insulation class		: F ` ´	
Locked rotor torque	: 229 %	Service factor		: 1.25	
Breakdown torque	: 350 %	Temperature rise		: 80 K	
Rated speed	: 2952 rpm	Design		: B	
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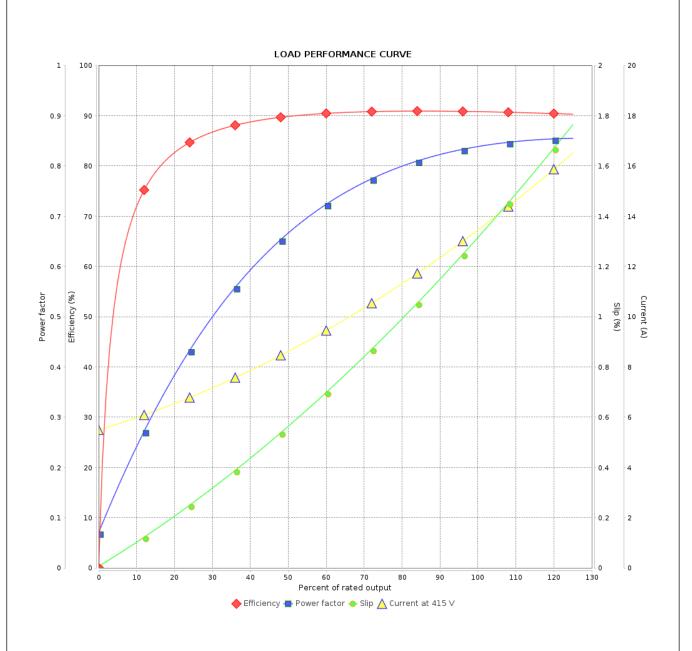
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12375663



Performance : 415 V 50 Hz 2P IE3 : 13.7 A : 0.0530 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 8.5 Insulation class Rated torque : 2.45 kgfm : F Locked rotor torque : 250 % Service factor : 1.25 Breakdown torque : 380 % Temperature rise : 80 K Rated speed : 2957 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page

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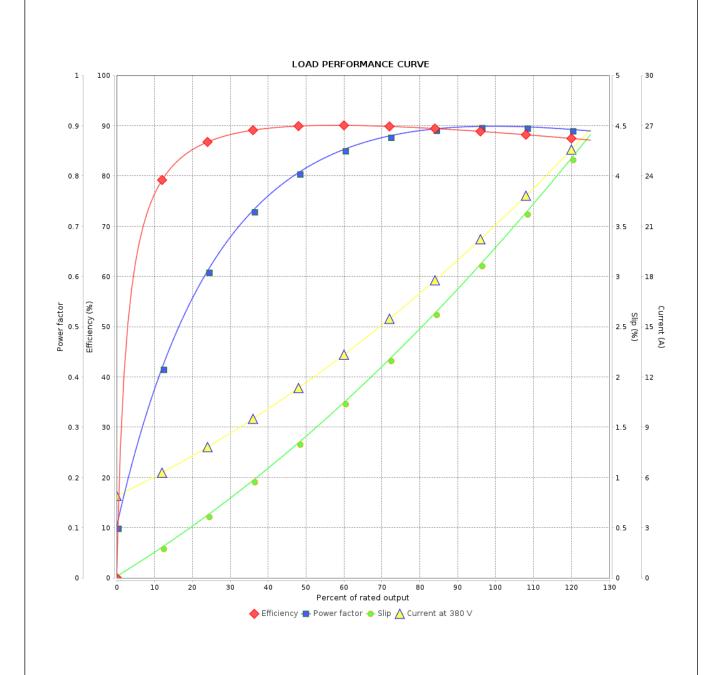
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12375663

Three-Phase



Rev.	С	hanges Summa	ry	Performed	Checked	Date
Rated speed	: 290	0 rpm	Design	Design		
Breakdown torqu	e : 200	%	Temperat	ure rise	: 105 K	
Locked rotor torq	ue : 170	%	Service fa	actor	: 1.00	
Rated torque	: 3.75	5 kgfm	Insulation	class	: F	
LRC	: 5.1		Duty cycle	Duty cycle		
Rated current	: 21.0) A	Moment of	Moment of inertia (J)		2
Performance	: 380	V 50 Hz 2P IE1				

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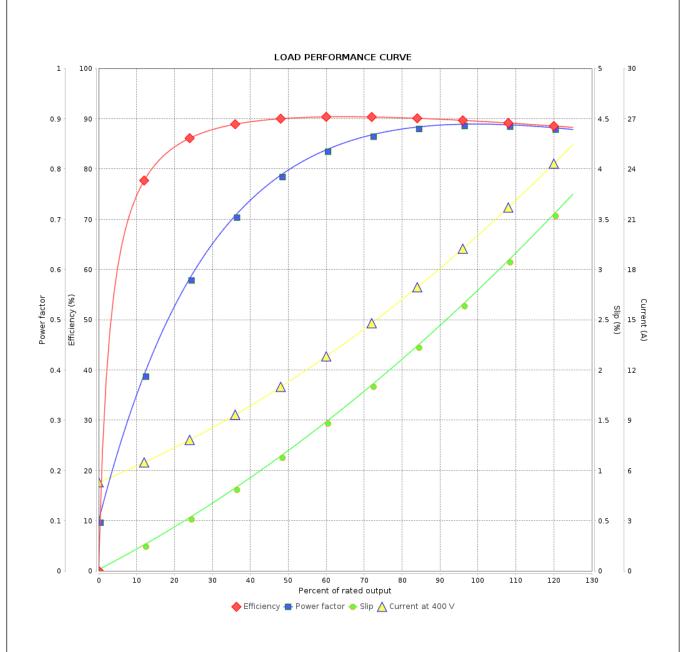
Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code:

12375663

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Performance	: 400 V 50 Hz 2P IE2		,		
1 enormance	. 400 V 30 HZ ZI ILZ				
Rated current	: 19.9 A	Moment of inertia (J)	: 0.0530 kgm²	!	
LRC	: 5.6	Duty cycle	: Cont.(S1)		
Rated torque	: 3.73 kgfm	Insulation class	: F		
Locked rotor torque	: 190 %	Service factor	: 1.00	: 1.00	
Breakdown torque	: 229 %	Temperature rise	: 105 K		
Rated speed	: 2915 rpm	Design	: B		
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Three Phase Induction Motor - Squirrel Cage



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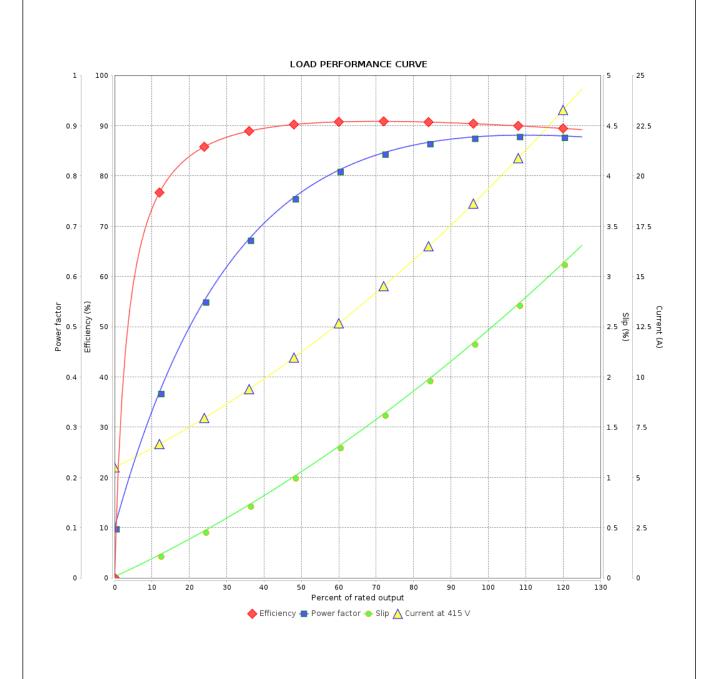
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Product line : W22 NEMA Premium Efficiency Product code : 12375663

Three-Phase



Performance	: 415 V 50 Hz 2P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 19.3 A : 6.1 : 3.72 kgfm : 200 % : 240 % : 2925 rpm	Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 0.0530 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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