DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12264596 Three-Phase : 213/5TD Cooling method Frame : IC411 - TEFC Insulation class Mounting : 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 Altitude : 1000 m.a.s.l. : 83.8 kg Protection degree : IP55 Moment of inertia (J) : 0.0636 kgm² Design : B Output [HP] 10 7.5 10 7.5 7.5 10 10 Poles 4 4 4 4 4 4 4 50 50 Frequency [Hz] 60 50 50 50 50 Rated voltage [V] 380 230/460 380 400 415 400 415 Rated current [A] 25.3/12.7 11.5 11.4 11.3 15.2 14.4 14.1 L. R. Amperes [A] 162/81.1 86.2 91.5 96.1 90.9 93.6 98.8 LRC [A] 6.4x(Code H) 7.5x(Code J) 8.0x(Code K) 8.5x(Code L) 6.0x(Code 6.5x(Code H) 7.0x(Code H) G) No load current [A] 11.3/5.65 5.60 6.00 6.35 5.60 6.00 6.35 Rated speed [RPM] 1765 1470 1475 1475 1450 1455 1465 Slip [%] 1.94 2.00 1.67 1.67 3.33 3.00 2.33 Rated torque [kgfm] 4.11 3.70 3.69 3.69 5.01 4.99 4.95 Locked rotor torque [%] 240 240 270 300 180 200 220 Breakdown torque [%] 295 300 340 360 220 250 270 Service factor 1.25 1.15 1.15 1.15 1.15 1.15 1.15 Temperature rise 80 K 25s (cold) 25s (cold) Locked rotor time 30s (cold) 25s (cold) 25s (cold) 25s (cold) 25s (cold) 17s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) 14s (hot) Noise level² 58.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 91.0 90.0 89.2 88.7 90.3 90.3 90.3 Efficiency (%) 75% 91.7 90.0 89.9 89.8 90.2 90.2 90.2 100% 91.7 89.8 90.1 90.3 88.5 89.5 90.2 25% 50% 0.65 0.61 0.57 0.53 0.72 0.68 0.64 Power Factor 75% 0.76 0.74 0.70 0.67 0.81 0.79 0.76 100% 0.81 0.81 0.77 0.75 0.85 0.84 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 8.8 11.0 10.7 10.4 11.4 10.6 12.6 P2 (0,5;1,0) 7.3 9.2 8.9 8.7 10.5 9.5 8.8 P3 (0,25;1,0) 7.0 8.8 8.5 8.3 10.0 9.1 8.4 P4 (0,9;0,5) 4.6 5.8 5.6 5.5 6.6 6.0 5.6 Losses (%) P5 (0,5;0,5) 3.2 4.0 3.9 3.8 4.6 4.1 3.8 P6 (0,5;0,25) 2.3 2.8 2.7 2.7 3.2 2.9 2.7 P7 2.0 1.9 2.2 2.0 1.9 1.6 1.8 (0,25;0,25)Non drive end Drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ : 205 kgf Max. traction Sealing V'Ring V'Ring : 289 kgf Max. compression 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

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Three Phase Induction Motor - Squirrel Cage	<u> </u>
Customer :	
Notes	
USABLE @208V 27.4A SF 1.15 SFA 31.5A	

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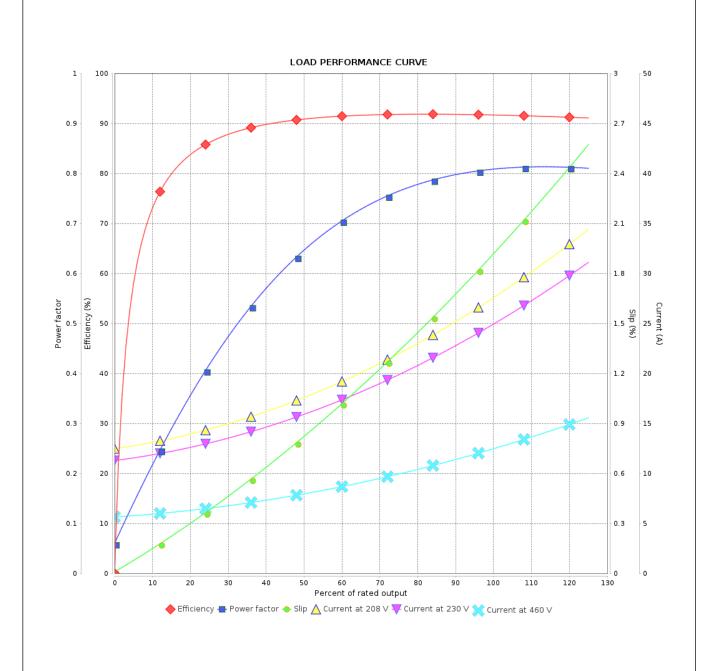
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12264596

Three-Phase



Performance	: 23	30/460 V 60 Hz 4F)				
Rated current		5.3/12.7 A			inertia (J)	: 0.0636 kgm	2
LRC	: 6.	.4	Du	Duty cycle		: Cont.(S1)	
Rated torque	: 4.	: 4.11 kgfm Insulation class		class	: F		
Locked rotor tord	Locked rotor torque : 240 % Se		Service factor		: 1.25		
Breakdown torqu	Breakdown torque : 295 % Temp		Temperature rise		: 80 K		
Rated speed	: 17	765 rpm	De	esign		: B	
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Three Phase Induction Motor - Squirrel Cage



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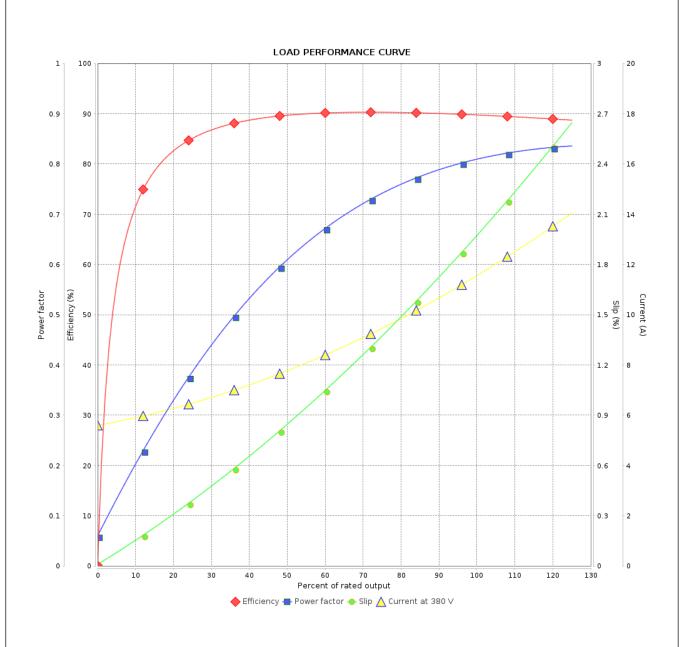
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Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12264596



Performance : 380 V 50 Hz 4P IE3 : 11.5 A : 0.0636 kgm² Rated current Moment of inertia (J) **LRC** : 7.5 Duty cycle : Cont.(S1) Insulation class : 3.70 kgfm : F Rated torque Locked rotor torque : 240 % Service factor : 1.15 Breakdown torque : 300 % Temperature rise : 80 K Rated speed : 1470 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage



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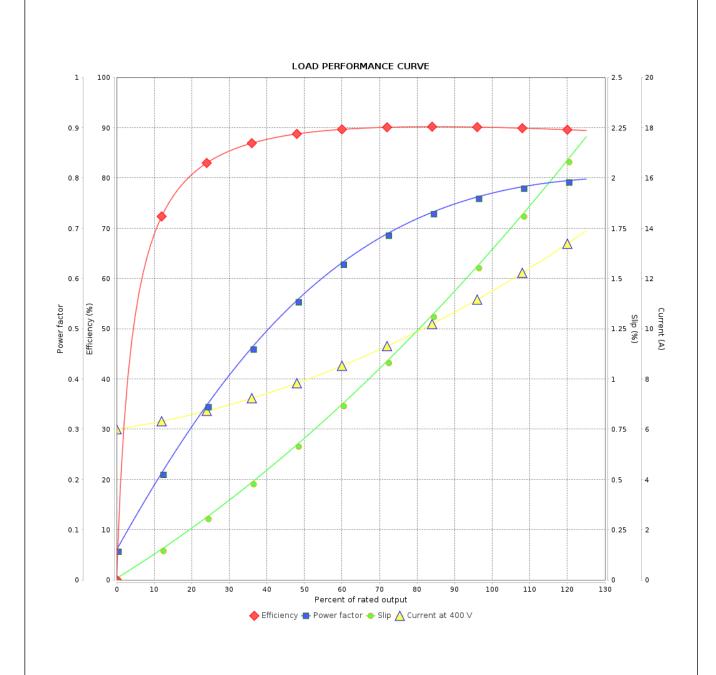
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Product line : W22 NEMA Premium Efficiency Product code : 12264596

Three-Phase



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.4 A : 8.0 : 3.69 kgfm : 270 % : 340 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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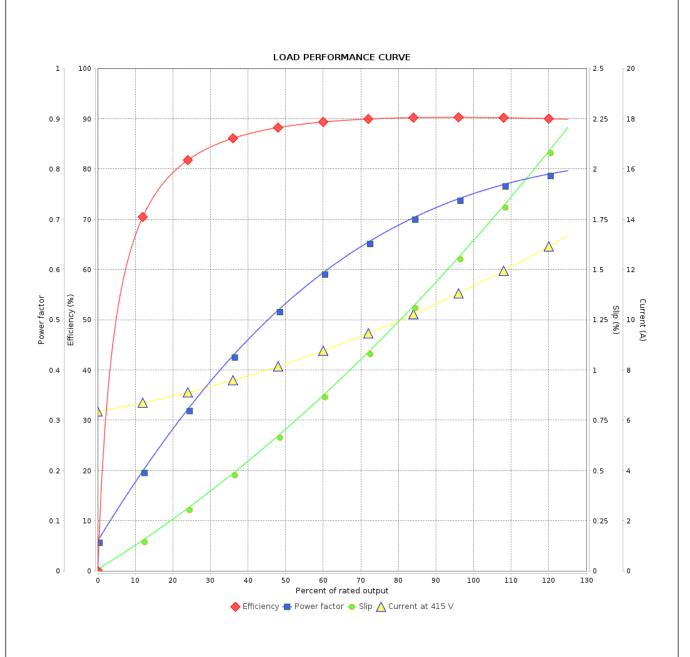


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12264596



Performance	: 415 V 50 Hz 4P IE3	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torqu Breakdown torque Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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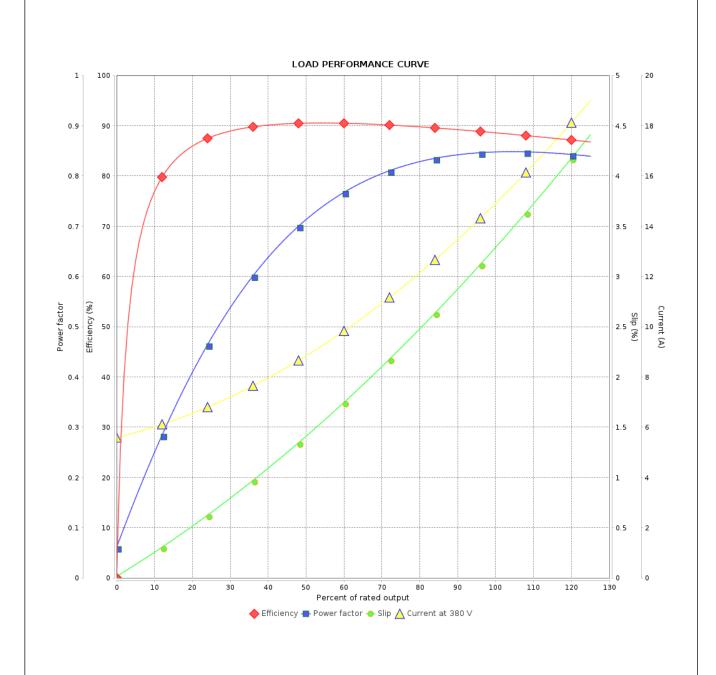
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12264596

Three-Phase



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Rated speed	: 1450 rpm	Design	: B	
Breakdown torque	: 220 %	Temperature rise	: 80 K	
Locked rotor torq	ıe : 180 %	Service factor	: 1.15	
Rated torque	: 5.01 kgfm	Insulation class	: F	
LRC	: 6.0	: 6.0 Duty cycle		
Rated current	: 15.2 A	: 15.2 A Moment of inertia (J)		1 ²
Performance	: 380 V 50 Hz 4P	:1		

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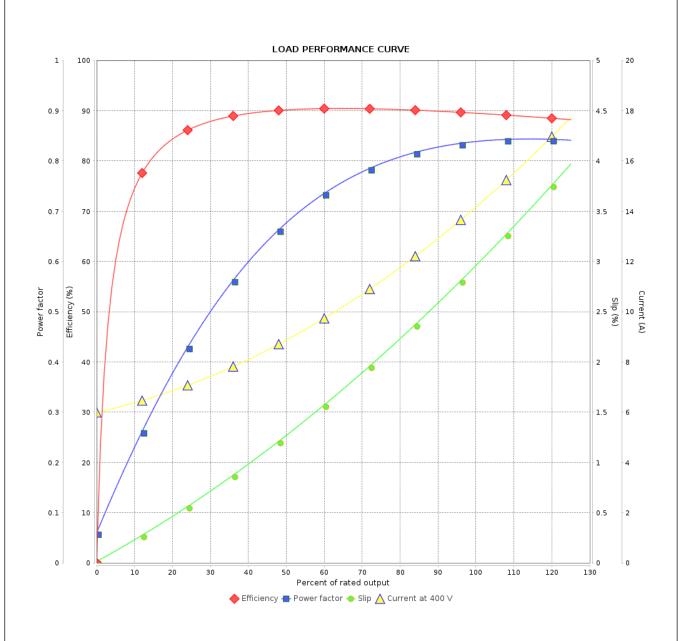


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12264596



				,		
Performance	: 400 V 50 Hz 4P IE2	400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	CC: 6.5 Duty cycle Ited torque: 4.99 kgfm Insulation class cked rotor torque: 200 % Service factor eakdown torque: 250 % Temperature rise		e ı class actor	: 0.0636 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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Three Phase Induction Motor - Squirrel Cage



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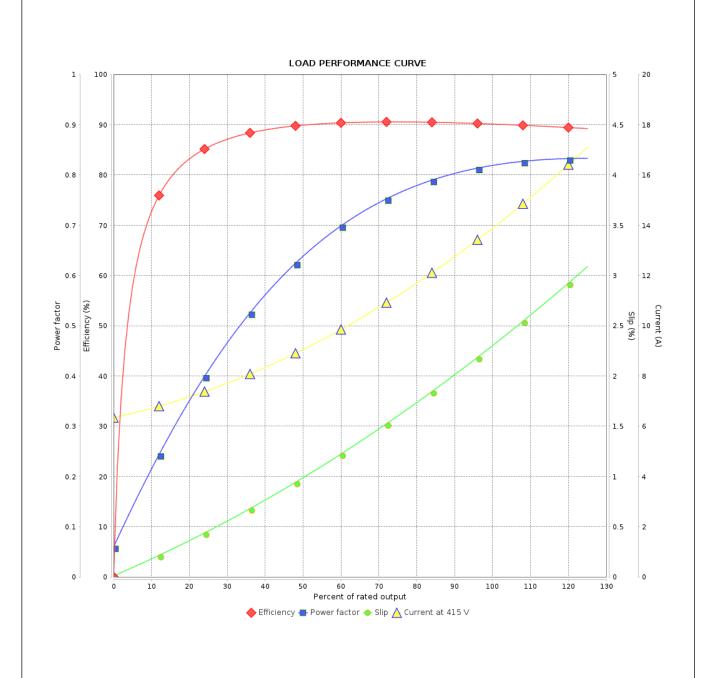
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Product line : W22 NEMA Premium Efficiency Product code : 12264596

Three-Phase



Performance		: 415 V 50 Hz 4P IE	22				
renormance	_	. 413 V 30112 4F 1E2					
Rated current		: 14.1 A		f inertia (J)	: 0.0636 kgm ²	2	
LRC		: 7.0	Duty cycle)	: Cont.(S1)		
Rated torque		: 4.95 kgfm	Insulation class		: F ` ´		
Locked rotor tord				ctor	: 1.15		
Breakdown torqu		: 270 %	Temperati	Temperature rise			
Rated speed		: 1465 rpm			: B		
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