DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 13531463 Efficiency Three-Phase : 143/5TC 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 : 28.1 kg Altitude : 1000 m.a.s.l. Protection degree : IP56 Moment of inertia (J) : 0.0067 kgm² Design : B Output [HP] 0.75 0.75 1 0.75 1 1 Poles 6 6 6 6 6 6 6 Frequency [Hz] 60 50 50 50 50 50 50 Rated voltage [V] 380 400 460 380 400 415 415 Rated current [A] 1.73 1.60 1.62 1.66 1.96 1.94 1.95 L. R. Amperes [A] 9.41 10.7 9.28 9.88 10.5 10.1 10.7 LRC [A] 6.2x(Code K) 5.8x(Code K) 6.1x(Code L) 6.3x(Code 4.8x(Code | 5.2x(Code H) | 5.5x(Code J) M) G) No load current [A] 1.10 1.05 1.15 1.25 1.05 1.15 1.25 Rated speed [RPM] 1160 960 970 970 940 950 950 Slip [%] 3.33 4.00 3.00 3.00 6.00 5.00 5.00 Rated torque [kgfm] 0.626 0.567 0.561 0.561 0.772 0.764 0.764 Locked rotor torque [%] 260 280 300 320 200 229 250 220 Breakdown torque [%] 300 310 330 340 260 280 1.00 Service factor 1.25 1.00 1.00 1.00 1.00 1.00 Temperature rise 80 K 36s (cold) 36s (cold) Locked rotor time 50s (cold) 36s (cold) 36s (cold) 36s (cold) 36s (cold) 28s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) 20s (hot) Noise level² 50.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 45.0 dB(A) 25% 50% 77.0 74.8 73.2 70.7 77.0 75.5 74.0 Efficiency (%) 75% 82.0 78.4 77.5 75.8 80.0 80.0 78.5 100% 82.5 79.3 78.9 77.9 78.5 78.5 78.5 25% 50% 0.45 0.44 0.41 0.38 0.53 0.49 0.46 Power Factor 75% 0.57 0.57 0.53 0.50 0.66 0.62 0.59 100% 0.66 0.66 0.62 0.59 0.74 0.71 0.68 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 20.0 20.0 20.0 20.0 20.0 20.0 20.0 P2 (0,5;1,0) 16.7 16.7 16.7 16.7 16.7 16.7 16.7 P3 (0,25;1,0) 16.9 16.9 16.9 16.9 16.9 16.9 16.9 P4 (0,9;0,5) 12.6 12.6 12.6 12.6 12.6 12.6 12.6 Losses (%) P5 (0,5;0,5) 9.2 9.2 9.2 9.2 9.2 9.2 9.2 P6 (0,5;0,25) 7.6 7.6 7.6 7.6 7.6 7.6 7.6 P7 5.8 5.8 5.8 5.8 5.8 5.8 5.8 (0,25;0,25)Drive end Non drive end Foundation loads Bearing type 6205 C3 6204 C3 : 47 kgf Max. traction Sealing Inpro/Seal Inpro/Seal Max. compression : 75 kgf Lubrication interval 20000 h 20000 h 4 g Lubricant amount 4 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 21/10/2024 1/9 Date

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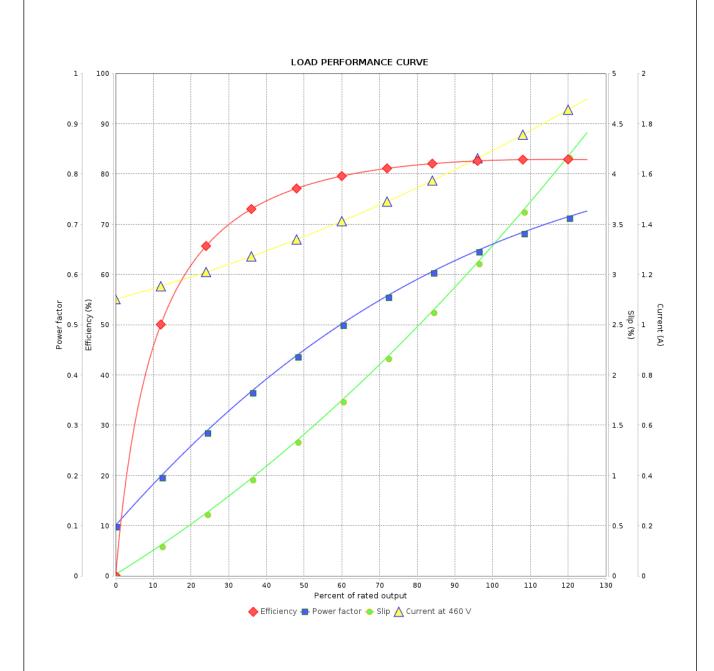


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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance		: 460 V 60 Hz 6P					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 1.73 A : 6.2 : 0.626 kgfm : 260 % : 300 % : 1160 rpm	Duty Insul Serv	cycle lation ice fac peratu	class	: 0.0067 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
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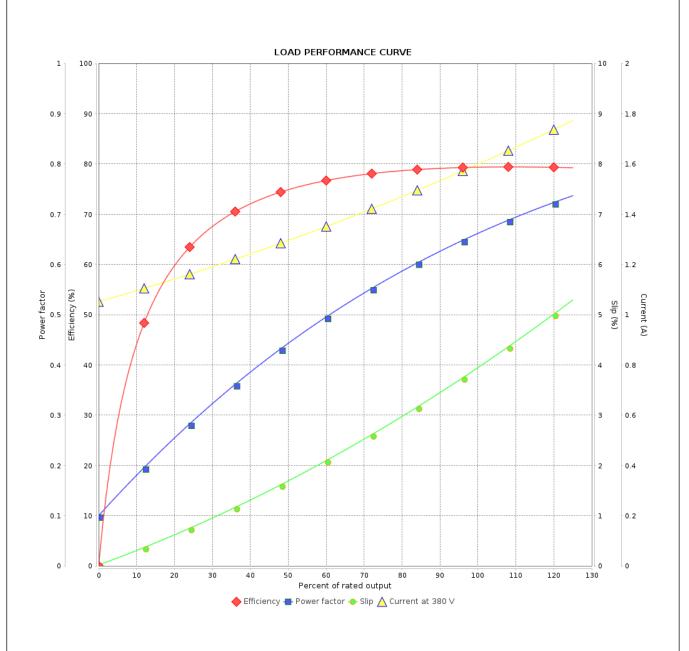


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 13531463



Performance	: 380 V 50 Hz 6P IE3		*	
Performance	. 300 V 50 HZ 6P IE3			
Rated current	: 1.60 A	Moment of inertia (J)	: 0.0067 kgm²	2
LRC	: 5.8	Duty cycle	: Cont.(S1)	
Rated torque	: 0.567 kgfm	Insulation class	: F	
Locked rotor torque	: 280 %	Service factor	: 1.00	
Breakdown torque	: 310 %	Temperature rise	: 80 K : B	
Rated speed	: 960 rpm	Design		
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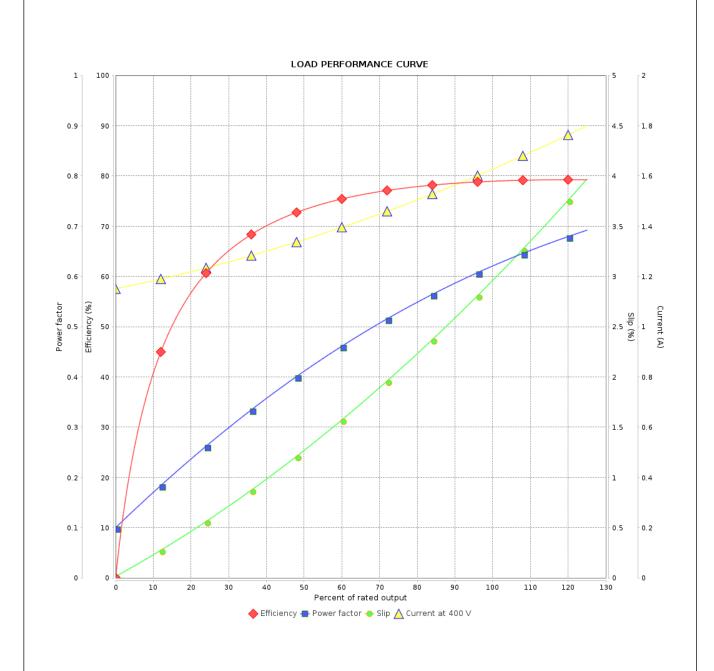


13531463

Customer :

Product line : W22 IEEE 841 NEMA Premium Product code :

Efficiency Three-Phase



Performance	: 400 V 50 Hz 6P IE3	3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque		Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K	
Rated speed	•		Design			
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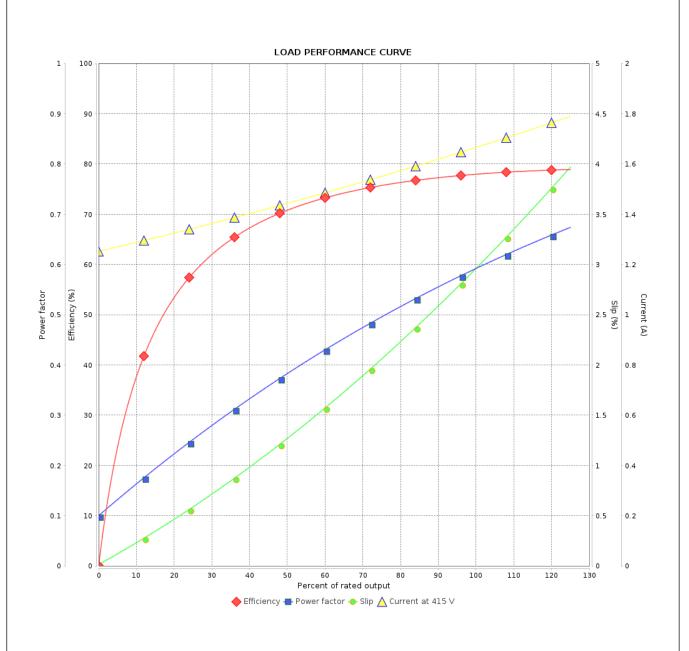


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Efficiency Three-Phase

Product code: 13531463



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 1.66 A : 6.3 : 0.561 kgfm : 320 % : 340 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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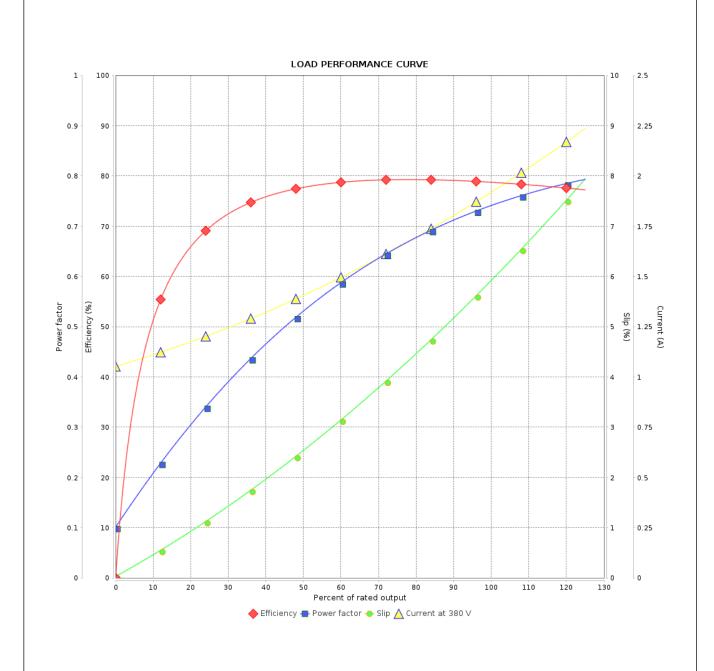
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Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 13531463

Efficiency Three-Phase



Performance	: 38	0 V 50 Hz 6P IE2					
Rated current	: 1.9	96 A	Moment of	f inertia (J)	: 0.0067 kgm²		
LRC : 4.8		Duty cycle)	: Cont.(S1)			
Rated torque : 0.772 kgfm		Insulation	Insulation class				
Locked rotor tord	μe : 20	0 %	Service fa	Service factor		: 1.00	
Breakdown torqu	ie : 22	0 %	Temperature rise : 80 K		: 80 K		
Rated speed : 940 rpm		Design		: B			
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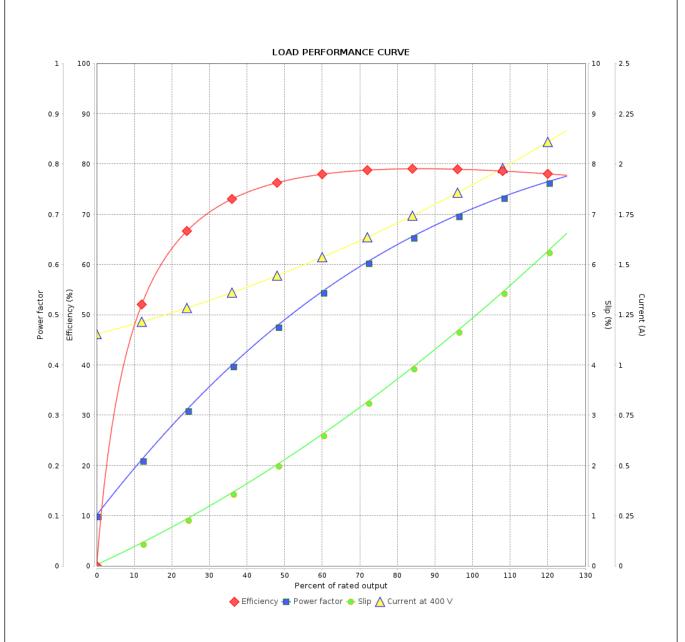


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Efficiency Three-Phase

Product code: 13531463



Performance	: 4	00 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 0 que : 2 ue : 2	.94 A 5.2 2.764 kgfm 29 % 60 % 50 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2
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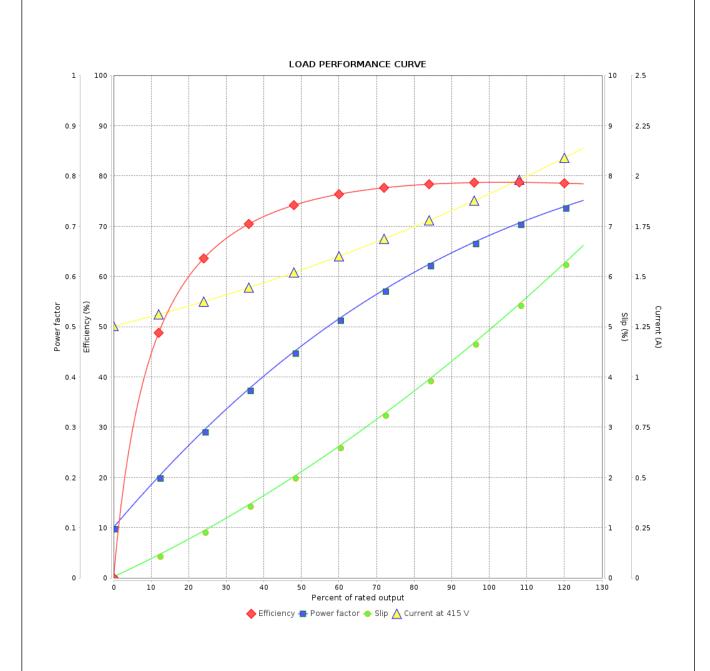
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Product code : 13531463

Efficiency Three-Phase



Performance : 415 V 50 Hz 6P IE2 : 1.95 A Rated current Moment of inertia (J) : 0.0067 kgm² **LRC** : 5.5 Duty cycle : Cont.(S1) : 0.764 kgfm : F Rated torque Insulation class Locked rotor torque : 250 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 950 rpm Design : B

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