DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 IEEE 841 NEMA Premium Product code: 12385057 Efficiency Three-Phase Frame : 254/6T Cooling method : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 138 kg : 1000 m.a.s.l. Approx. weight³ Altitude Protection degree : IP56 Moment of inertia (J) : 0.1652 kgm² Design : B Output [HP] 7.5 7.5 7.5 7.5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 460 380 400 415 Rated current [A] 9.48 11.4 10.8 10.5 L. R. Amperes [A] 63.5 58.1 61.6 64.0 LRC [A] 6.7x(Code H) 5.1x(Code F) 5.7x(Code G) 6.1x(Code H) No load current [A] 4.50 4.50 4.75 4.95 Rated speed [RPM] 1175 970 970 975 Slip [%] 2.08 3.00 3.00 2.50 4.62 Rated torque [kgfm] 5.61 5.61 5.58 Locked rotor torque [%] 240 160 190 210 Breakdown torque [%] 290 210 229 250 Service factor 1.25 1.00 1.15 1.15 80 K Temperature rise 80 K 105 K 105 K Locked rotor time 54s (cold) 30s (hot) 48s (cold) 27s (hot) 48s (cold) 27s (hot) 48s (cold) 27s (hot) Noise level² 59.0 dB(A) 57.0 dB(A) 57.0 dB(A) 57.0 dB(A) 25% 50% 89.5 89.5 89.5 89.5 Efficiency (%) 75% 90.2 89.5 89.5 89.5 100% 91.0 88.5 89.5 90.2 25% 50% 0.63 0.70 0.66 0.64 Power Factor 75% 0.74 0.79 0.77 0.75 0.80 0.83 0.82 0.81 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.0 P1 (0,9;1,0) 13.0 10.9 14.5 P2 (0,5;1,0) 9.4 11.5 10.5 13.0 P3 (0,25;1,0) 10.0 8.9 12.4 11.0 P4 (0,9;0,5) 7.2 6.1 Losses (%) 5.6 6.5 P5 (0,5;0,5) 4.4 4.0 5.4 4.8 P6 (0,5;0,25) 2.9 3.8 3.4 3.2 P7 (0,25;0,25) 2.0 2.9 2.5 2.3 Non drive end Foundation loads Drive end Bearing type 6309 C3 6209 C3 Max. traction : 150 kgf Sealing Inpro/Seal Inpro/Seal Max. compression : 288 kgf 20000 h Lubrication interval 20000 h Lubricant amount 13 g 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 must be eliminated. power supply, subject to the tolerances stipulated in NEMA MG-1. (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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision

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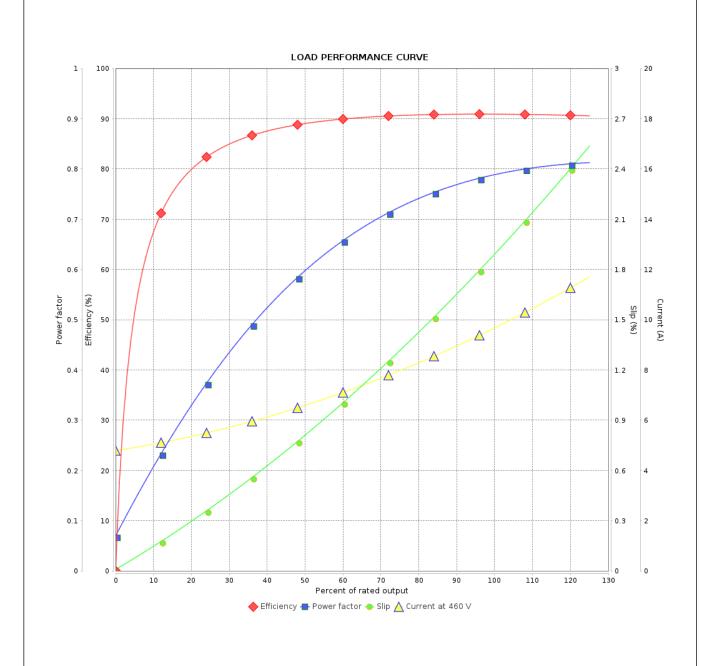


Customer

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12385057



Performance	: 4	: 460 V 60 Hz 6P						
Rated current		Moment of inertia (J)		: 0.1652 kgm²				
LRC : 6.7		.7	Duty cycle	Duty cycle				
Rated torque : 4		.62 kgfm	Insulation	Insulation class				
		40 %	Service fa	Service factor		: 1.25		
Breakdown torqu	e : 2	90 %	% Temperature rise		: 80 K			
Rated speed	: 1	175 rpm	Design	Design				
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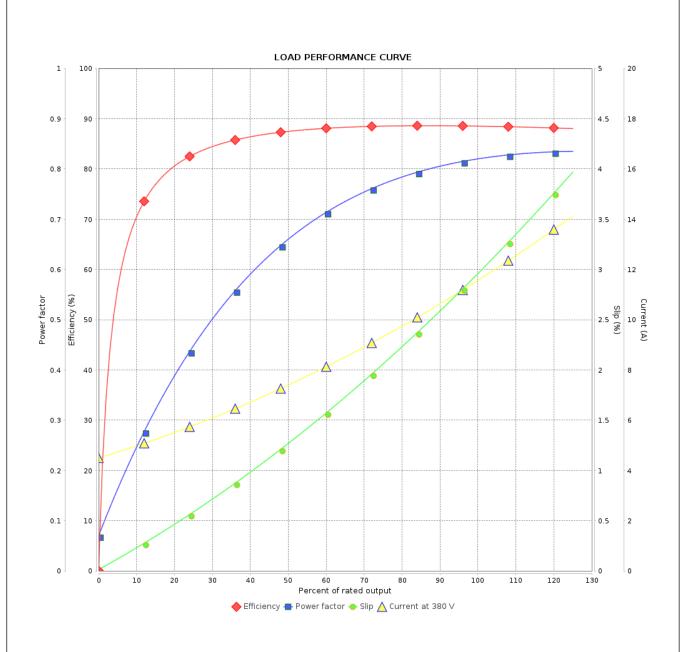


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12385057



Performance		: 380 V 50 Hz 6P IE3						
Rated current		11.4 A	Moment of inertia (J)		: 0.1652 kgm²			
LRC :		5.1	Duty cycle	Duty cycle		: Cont.(S1)		
Rated torque		5.61 kgfm	Insulation class		:F ´´			
Locked rotor torque		160 %	Service factor		: 1.00			
Breakdown torque	e : 2	210 %	Temperature rise		: 105 K			
Rated speed	: 9	970 rpm	m Design		: B			
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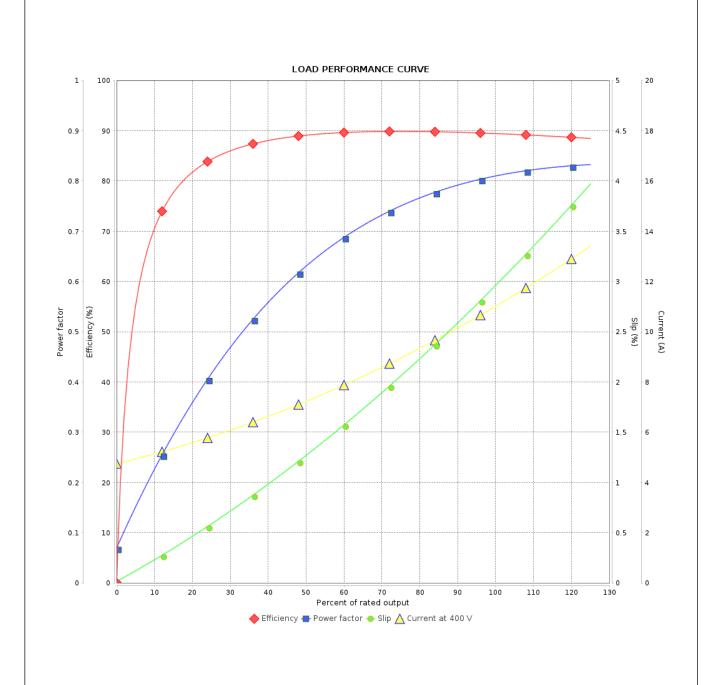
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Product line : W22 IEEE 841 NEMA Premium Product code : 12385057

Efficiency Three-Phase



Performance		: 400 V 50 Hz 6F	P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que	: 10.8 A : 5.7 : 5.61 kgfm : 190 % : 229 % : 970 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1652 kgm² : Cont.(S1) : F : 1.15 : 105 K : B	
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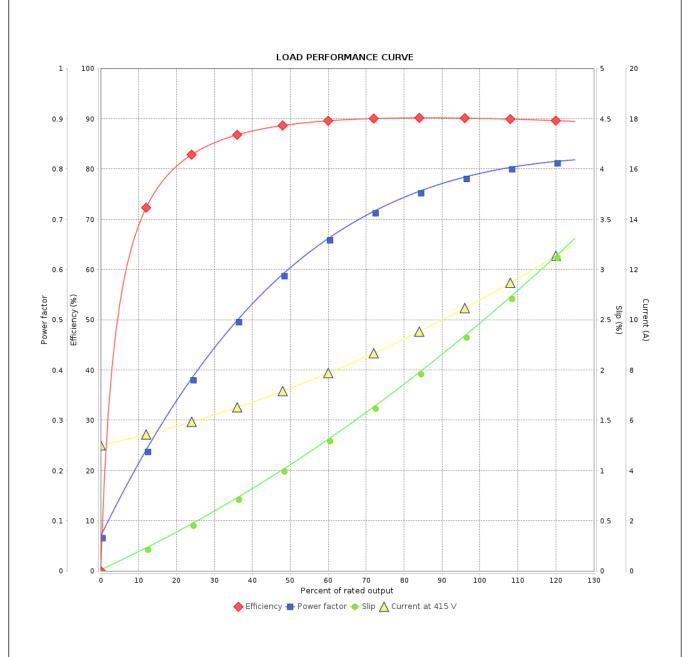


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 12385057



erformance	: 41	: 415 V 50 Hz 6P IE3						
ated current RC ated torque ocked rotor torque eakdown torquated speed	: 6. : 5. ue : 2' e : 25	0.5 A 1 58 kgfm 10 % 50 % 75 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1652 kgm² : Cont.(S1) : F : 1.15 : 80 K : B		
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