DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 12445721 Frame : 213/5T 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 : 1000 m.a.s.l. Approx. weight³ : 70.7 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0504 kgm² Design : B Output [HP] 3 3 3 3 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 8.83/4.41 5.09 4.92 4.87 L. R. Amperes [A] 61.8/30.9 29.5 31.5 33.1 LRC [A] 7.0x(Code K) 5.8x(Code H) 6.4x(Code J) 6.8x(Code J) No load current [A] 5.50/2.75 2.72 2.91 3.05 Rated speed [RPM] 1175 965 970 970 Slip [%] 2.08 3.50 3.00 3.00 Rated torque [kgfm] 1.85 2.26 2.24 2.24 Locked rotor torque [%] 200 170 200 220 Breakdown torque [%] 280 210 240 270 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K Locked rotor time 104s (cold) 58s (hot) 72s (cold) 40s (hot) 72s (cold) 40s (hot) 72s (cold) 40s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 86.5 87.5 86.5 86.5 Efficiency (%) 75% 88.5 88.5 88.5 88.5 100% 89.5 87.5 88.5 88.5 25% 50% 0.50 0.57 0.53 0.50 Power Factor 75% 0.63 0.70 0.66 0.64 0.70 0.75 0.73 0.71 100% Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.0 11.0 11.0 P2 (0,5;1,0) 8.5 8.5 8.5 8.5 P3 (0,25;1,0) 7.7 7.7 7.7 7.7 P4 (0,9;0,5) Losses (%) 6.7 6.7 6.7 6.7 P5 (0,5;0,5) 4.4 4.4 4.4 4.4 P6 (0,5;0,25) 3.4 3.4 3.4 3.4 P7 (0,25;0,25) 2.5 2.5 2.5 2.5 Non drive end Foundation loads Drive end Bearing type 6308 ZZ 6207 ZZ Max. traction : 76 kaf Sealing V'Ring V'Ring Max. compression : 147 kgf Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM 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 (1) Looking the motor from the shaft end. MG-1. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. Rev Changes Summary Performed Checked Date

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DATA SHEET



Three Pha	se Induction Motor - Squirrel Cage			ШЕЦ
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Three Phase Induction Motor - Squirrel Cage

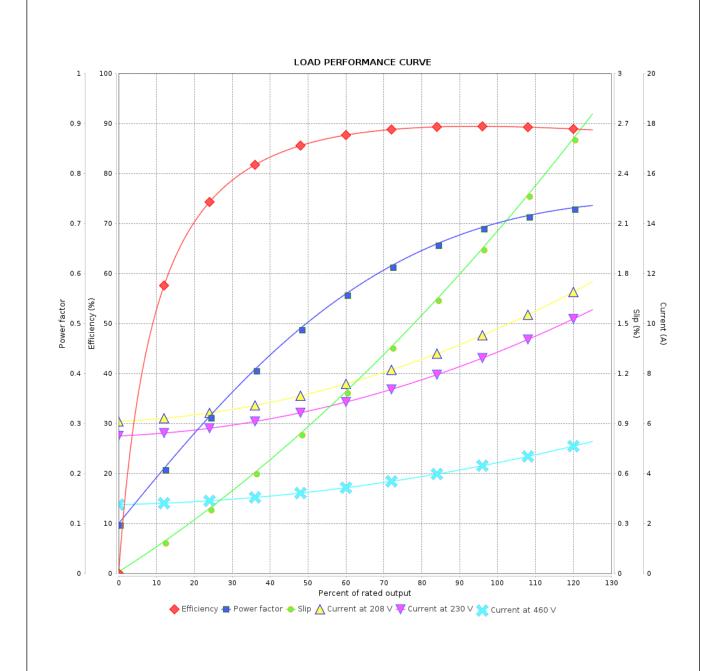


12445721

Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase



Performance	: 2	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu	: 7 : 1 jue : 2	3.83/4.41 A 7.0 .85 kgfm 900 % 80 %	Duty cycle : Cont.(S ² Insulation class : F Service factor : 1.25 Temperature rise : 80 K		: 1.25	2
Rated speed	: 1175 rpm		Design	Design		
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Three Phase Induction Motor - Squirrel Cage



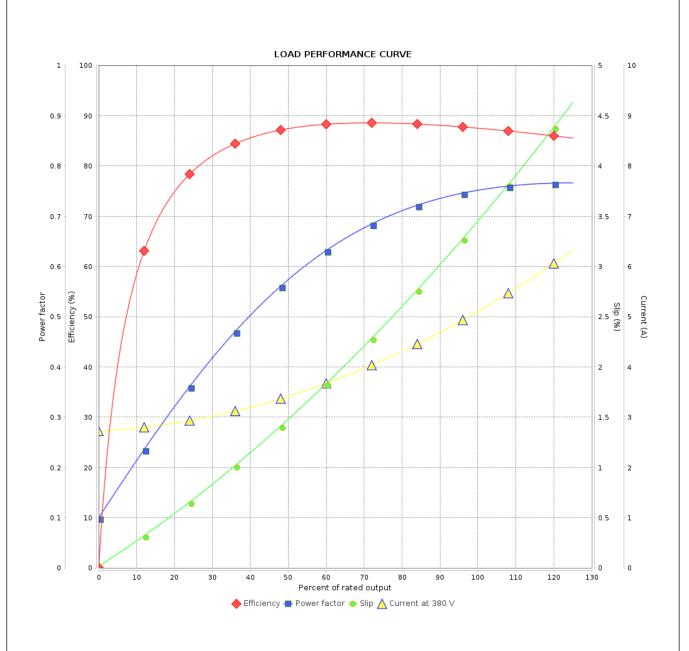
Customer

Product line : W22 NEMA Premium Efficiency Three-

Product code:

12445721

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Performance	: 380 V 50 Hz 6P IE4			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.09 A : 5.8 : 2.26 kgfm : 170 % : 210 % : 965 rpm	: 5.8 Duty cycle : 2.26 kgfm Insulation class : 170 % Service factor : 210 % Temperature rise		2
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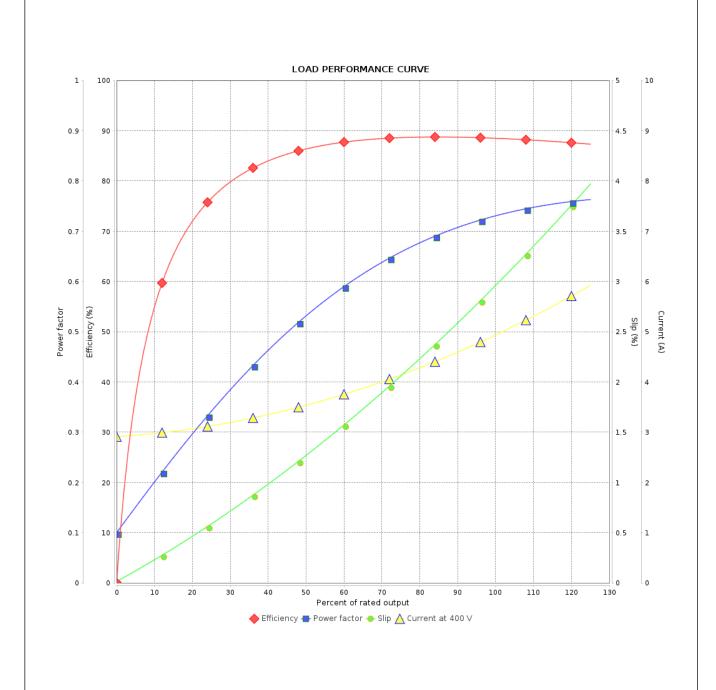
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency ThreeProduct code:

12445721



Performance	: 4	: 400 V 50 Hz 6P IE4					
Rated current	: 4	: 6.4 Duty : 2.24 kgfm Insul : 200 % Serv		Moment of inertia (J) Duty cycle		2	
LRC	: 6						
Rated torque	: 2			class	: F		
Locked rotor tord	que : 2			ctor	: 1.00		
Breakdown torqu	ue : 2			Temperature rise			
Rated speed	ted speed : 97		70 rpm Design		: B		
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Three Phase Induction Motor - Squirrel Cage



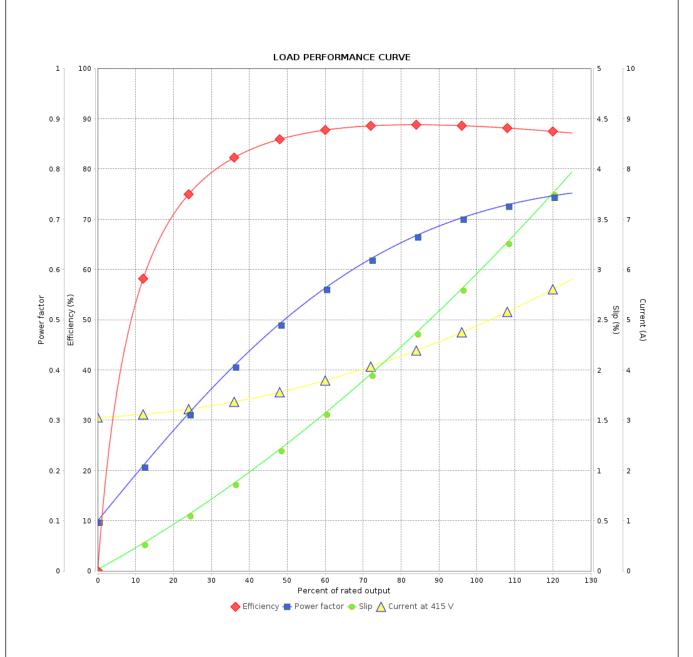
Customer :

Product line : W22 NEMA Premium Efficiency Three-

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Product code:

12445721



Performance		15 V 50 Hz 6P IE4				
Rated current		87 A Moment of inertia (J)		: 0.0504 kgm	2	
LRC		.8	Duty cycle		: Cont.(S1)	
Rated torque		.24 kgfm	m Insulation class		: F	
Locked rotor tord	que : 22	20 %	Service fa	ctor	: 1.00	
Breakdown torque		70 %	Temperature rise		: 80 K	
Rated speed	: 970 rpm		Design		: B	
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