DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 11456700 Frame : 213/5TC Cooling method : 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 : 1000 m.a.s.l. Approx. weight³ : 78.1 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.0620 kgm² Design : B Output [HP] 5 5 5 5 Poles 6 6 6 6 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 13.7/6.83 8.20 7.82 7.65 L. R. Amperes [A] 92.9/46.4 45.1 47.7 49.7 LRC [A] 6.8x(Code J) 5.5x(Code G) 6.1x(Code H) 6.5x(Code J) No load current [A] 6.90/3.45 3.41 3.68 3.90 Rated speed [RPM] 1170 960 965 970 Slip [%] 2.50 4.00 3.50 3.00 Rated torque [kgfm] 3.10 3.78 3.76 3.74 Locked rotor torque [%] 170 150 160 190 Breakdown torque [%] 260 215 220 250 Service factor 1.25 1.00 1.00 1.00 80 K Temperature rise 80 K 80 K 80 K 102s (cold) 57s (hot) 54s (cold) 30s (hot) Locked rotor time 54s (cold) 30s (hot) 54s (cold) 30s (hot) Noise level² 55.0 dB(A) 53.0 dB(A) 53.0 dB(A) 53.0 dB(A) 25% 50% 88.5 88.5 88.5 87.5 Efficiency (%) 75% 89.5 88.5 88.5 88.5 100% 89.5 86.8 87.5 88.5 25% 50% 0.58 0.65 0.61 0.58 Power Factor 75% 0.70 0.75 0.73 0.71 0.76 0.79 0.78 0.76 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.3 P1 (0,9;1,0) 13.5 11.1 P2 (0,5;1,0) 11.1 10.1 9.1 11.8 P3 (0,25;1,0) 9.8 8.8 11.4 10.8 P4 (0,9;0,5) 7.1 Losses (%) 5.8 7.5 6.4 P5 (0,5;0,5) 4.0 5.2 4.9 4.5 P6 (0,5;0,25) 2.9 3.7 3.5 3.2 P7 (0,25;0,25) 2.1 2.7 2.6 2.3 Non drive end Foundation loads Drive end Bearing type 6308 ZZ 6207 ZZ Max. traction : 134 kgf Sealing V'Ring V'Ring Max. compression : 212 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. Changes Summary Rev Performed Chackad Data

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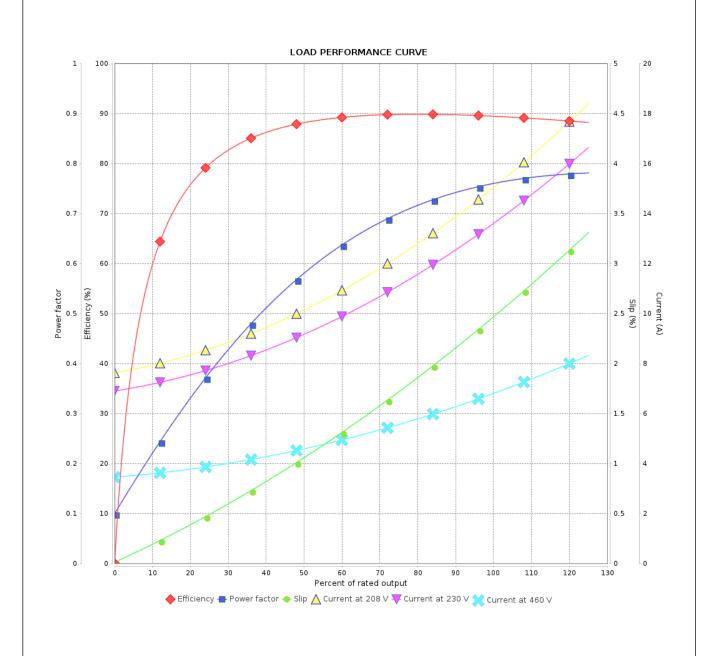


Customer

Product line : W22 NEMA Premium Efficiency ThreeProduct code:

11456700





Performance	::	: 230/460 V 60 Hz 6P						
Rated current	:	: 13.7/6.83 A Moment of in : 6.8 Duty cycle : 3.10 kgfm Insulation cla : 170 % Service facto : 260 % Temperature		f inertia (J)	: 0.0620 kgm ²	2		
LRC	: (Duty cycle				
Rated torque	::			class	: F			
Locked rotor torqu	ie :			ctor	: 1.25			
Breakdown torque	e ::			Temperature rise Design				
Rated speed	: 1170 rpm		Design					
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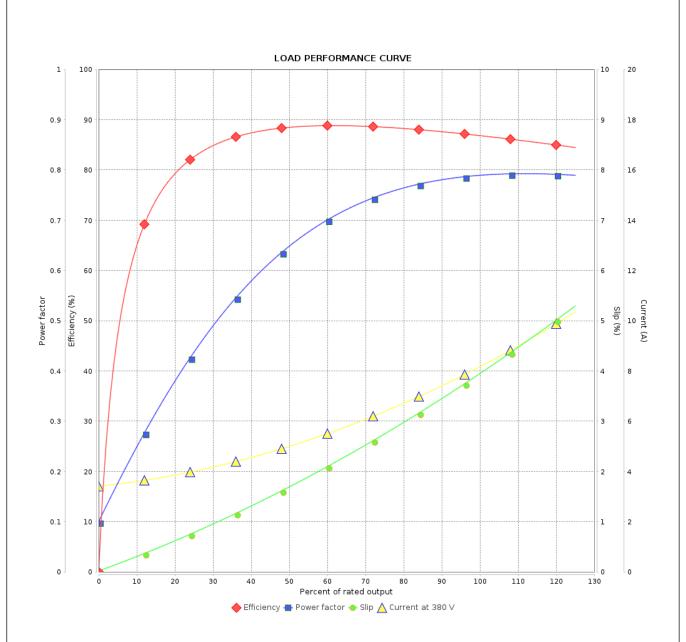


Customer

Product line : W22 NEMA Premium Efficiency Three-

Product code:

11456700



Performance		: 380 V 50 Hz 6F	P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 8.20 A : 5.5 : 3.78 kgfm : 150 % : 215 % : 960 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0620 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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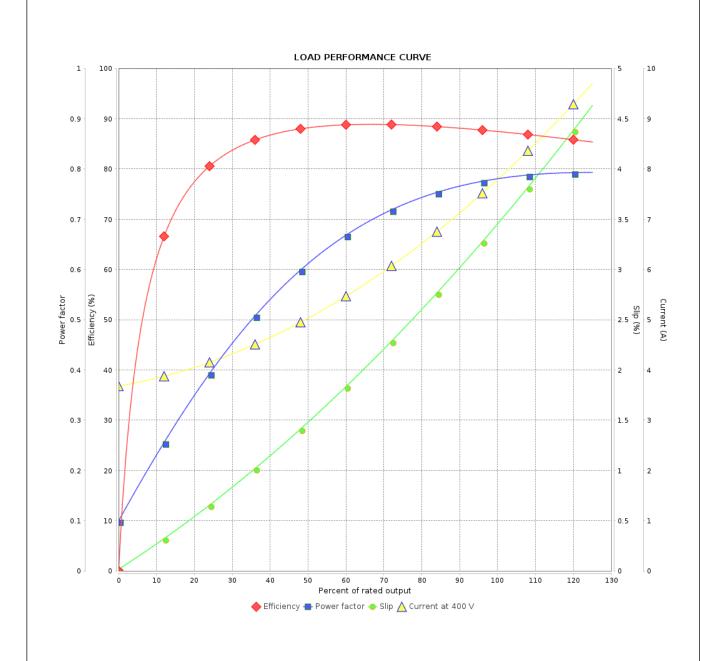
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

11456700





Performance	:	: 400 V 50 Hz 6P IE3						
Rated current	:	: 7.82 A Moment of Duty cycle : 3.76 kgfm Insulation c Service fact : 220 %		f inertia (J)	: 0.0620 kgm²			
LRC	:			1				
Rated torque	:			class	:F			
Locked rotor torque	e :			ctor	: 1.00			
Breakdown torque	:			Temperature rise				
Rated speed	: 965 rpm		Design		: B			
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Customer

Product line : W22 NEMA Premium Efficiency Three-

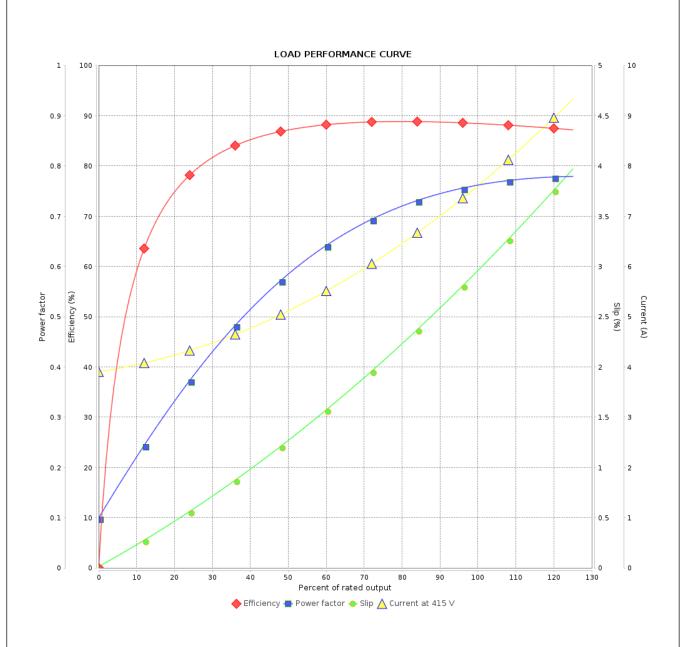
Product code:

11456700



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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 7.65 A : 6.5 : 3.74 kgfm : 190 % : 250 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0620 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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