DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 13000596 Frame : 315S/M Cooling method : IC411 - TEFC Insulation class Mounting : B3L(E) : F Duty cycle : S1 Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight³ : 1056 kg : 3.34 kgm² Protection degree : IP55 Moment of inertia (J) Design : N 100 Output [HP] 100 100 Poles 6 6 6 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 142 133 244/122 L. R. Amperes [A] 923 944 1854/927 LRC [A] 7.1 6.5 7.6 No load current [A] 56.0 63.2 112/56.0 Rated speed [RPM] 992 993 1194 Slip [%] 0.80 0.70 0.50 Rated torque [kgfm] 60.8 73.2 73.1 Locked rotor torque [%] 240 190 260 Breakdown torque [%] 229 280 310 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 57s (cold) 32s (hot) 57s (cold) 32s (hot) 109s (cold) 61s (hot) Noise level² 67.0 dB(A) 67.0 dB(A) 70.0 dB(A) 25% 50% 93.7 93.7 94.1 Efficiency (%) 75% 95.6 95.6 95.0 100% 95.6 95.8 95.0 25% 0.71 0.64 0.64 50% Power Factor 75% 0.80 0.76 0.75 100% 0.84 0.82 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 4.4 4.2 5.0 P2 (0,5;1,0) 3.0 2.9 3.5 2.3 P3 (0,25;1,0) 2.4 2.8 2.7 Losses (%) P4 (0,9;0,5) 2.8 3.2 P5 (0,5;0,5) 1.6 1.6 1.9 P6 (0,5;0,25) 1.3 1.2 1.5 P7 (0,25;0,25) 8.0 0.7 0.9 Drive end Non drive end Foundation loads Bearing type 6319 C3 6316 C3 Max. traction : 955 kgf Sealing WSeal WSeal : 2011 kaf Max. compression Lubrication interval 13000 h 16000 h Lubricant amount 45 g 34 g 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. (4) At 100% of full load. Performed Checked Rev. **Changes Summary** Date Performed by

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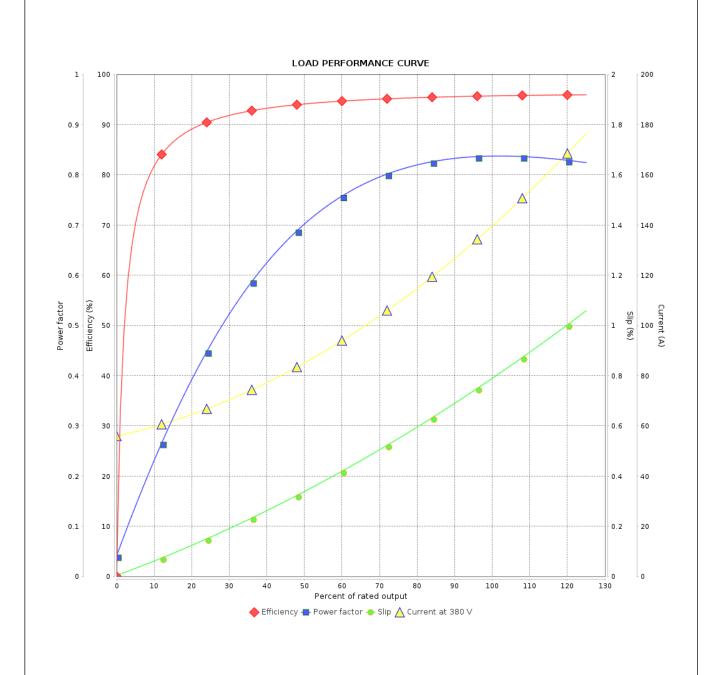
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Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13000596



Day	Changas Cummani	·	Dorformod	Chaaltad	Doto
Rated speed	: 992 rpm	Design		: N	
Breakdown torque	: 229 %	Temperature	rise	: 80 K	
Locked rotor torque	: 190 %	Service factor	r	: 1.25	
Rated torque	: 73.2 kgfm	Insulation clas	SS	: F	
LRC	: 6.5	Duty cycle		: S1	
Rated current	: 142 A	Moment of ine	ertia (J)	: 3.34 kgm²	
Performance	: 380 V 50 Hz 6P				

Rated speed	. 98	92 rpm	Design		. IN	
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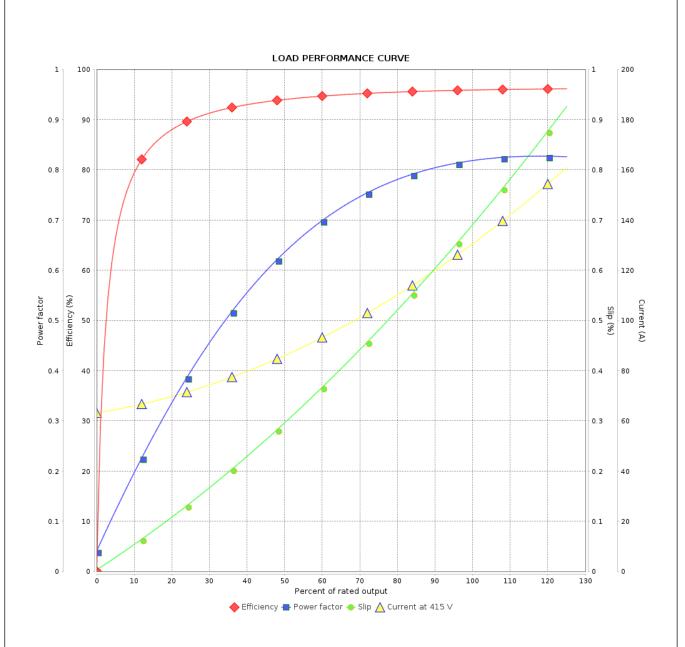
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13000596



Performance	: 415 V 50 Hz 6P				
Rated current	: 133 A	Moment of inertia (J)		: 3.34 kgm²	
LRC	: 7.1	Duty cycle		: S1	
Rated torque	: 73.1 kgfm	Insulation class		: F	
Locked rotor torque	: 240 %	Service factor		: 1.25	
Breakdown torque	: 280 %	Temperature rise		: 80 K	
Rated speed	: 993 rpm	Design		: N	
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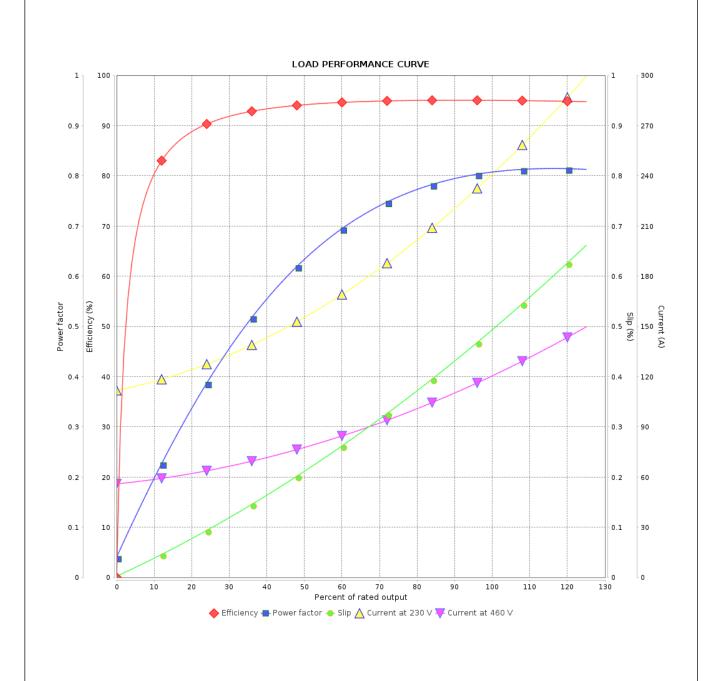
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance	: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 244/122 A : 7.6 : 60.8 kgfm : 260 % : 310 % : 1194 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 3.34 kgm² : S1 : F : 1.25 : 80 K : N	
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