DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12596566 Frame : 160L Cooling method : IC411 - TEFC Insulation class Mounting : F : B3L(E) 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 : 153 kg : 0.1214 kgm² Protection degree : IP55 Moment of inertia (J) Design : N 20 Output [HP] 20 20 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 29.4 28.2 50.0/25.0 L. R. Amperes [A] 206 226 415/208 LRC [A] 7.0 8.0 8.3 No load current [A] 11.0 22.0/11.0 13.0 Rated speed [RPM] 1465 1475 1778 Slip [%] 2.33 1.22 1.67 Rated torque [kgfm] 8.16 9.91 9.84 Locked rotor torque [%] 229 290 300 Breakdown torque [%] 250 320 330 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 32s (cold) 18s (hot) 27s (cold) 15s (hot) 39s (cold) 22s (hot) Noise level² 61.0 dB(A) 61.0 dB(A) 64.0 dB(A) 25% 50% 92.0 91.4 91.0 Efficiency (%) 75% 92.4 92.4 91.7 92.4 100% 92.4 93.0 25% 0.69 0.62 0.62 50% Power Factor 75% 0.79 0.74 0.74 100% 0.84 0.80 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 7.8 7.8 7.2 P2 (0,5;1,0) 6.0 6.0 5.5 P3 (0,25;1,0) 5.4 5.4 4.9 Losses (%) P4 (0,9;0,5) 4.6 4.6 4.2 P5 (0,5;0,5) 2.9 2.9 2.7 P6 (0,5;0,25) 2.2 2.2 2.0 P7 (0,25;0,25) 1.3 1.4 1.4 Drive end Non drive end Foundation loads Bearing type 6309 C3 6209 C3 Max. traction : 347 kgf Sealing V'Rina V'Rina : 500 kaf Max. compression Lubrication interval 20000 h 20000 h 9 g Lubricant amount 13 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 (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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Three Phase Induction Motor - Squirrel Cage



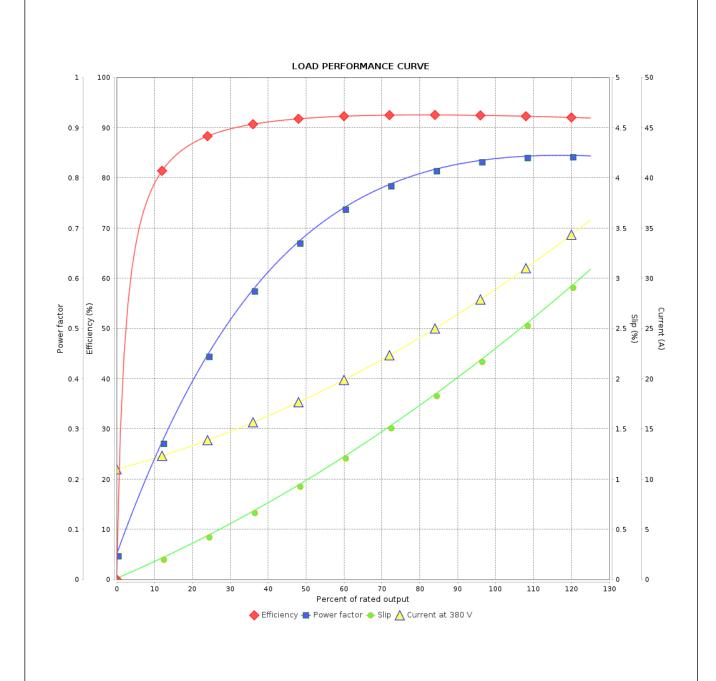
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14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12596566



Performance	: 380 V 50 Hz 4P				
Rated current	: 29.4 A	Moment of inertia (J)		: 0.1214 kgm²	
LRC	: 7.0	Duty cycle		: S1	
Rated torque	: 9.91 kgfm	Insulation class		: F	
Locked rotor torque	: 229 %	Service factor		: 1.25	
Breakdown torque	: 250 %	Temperature rise		: 80 K	
Rated speed	: 1465 rpm	Design		: N	
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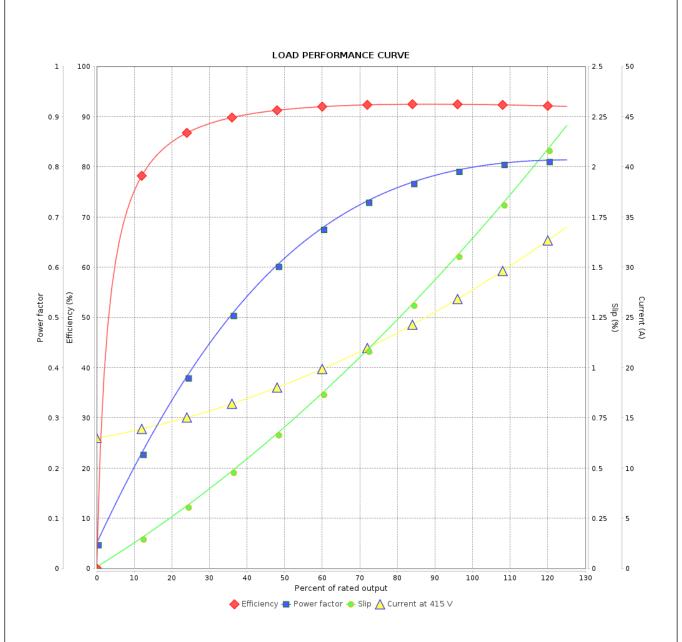
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12596566



Performance	: 415 V 50 Hz 4P				
Rated current	: 28.2 A	Moment of inertia (J)		: 0.1214 kgm²	
LRC	: 8.0	Duty cycle		: S1	
Rated torque	: 9.84 kgfm	Insulation class		: F	
Locked rotor torque	: 290 %	Service factor		: 1.25	
Breakdown torque	: 320 %	Temperature rise		: 80 K	
Rated speed	: 1475 rpm			: N	
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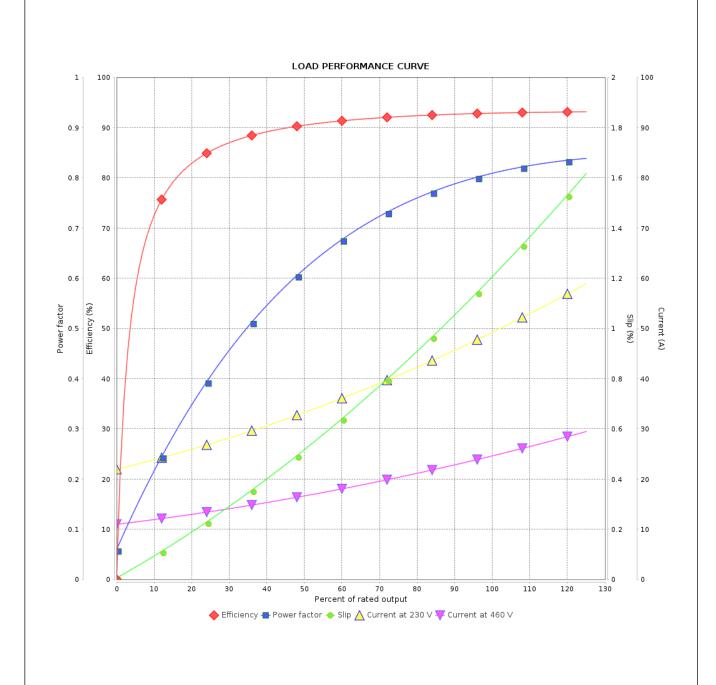
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Three Phase Induction Motor - Squirrel Cage



Customer

: W22 Tru-Metric IE3 Three-Phase Product line Product code: 12596566



Performance		: 230/460 V 60 Hz 4P					
LRC : Rated torque :		0.0/25.0 A .3 .16 kgfm 00 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.1214 kgm² : S1 : F : 1.25		
Breakdown torque Rated speed	: 33			ure rise	: 80 K : N		
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