DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12761545 Frame : 250S/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 : 515 kg Protection degree : IP55 Moment of inertia (J) : 0.4888 kgm² Design : N 75 Output [HP] 75 75 Poles 2 2 2 60 Frequency [Hz] 50 50 Rated voltage [V] 380 415 230/460 Rated current [A] 99.6 93.3 165/82.4 L. R. Amperes [A] 747 793 1417/709 LRC [A] 7.5 8.5 8.6 No load current [A] 20.0 23.0 42.0/21.0 Rated speed [RPM] 2955 2965 3565 Slip [%] 1.17 0.97 1.50 Rated torque [kgfm] 18.4 15.3 18.4 Locked rotor torque [%] 229 290 310 Breakdown torque [%] 229 290 310 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K 66s (cold) 37s (hot) Locked rotor time 59s (cold) 33s (hot) 52s (cold) 29s (hot) Noise level² 74.0 dB(A) 74.0 dB(A) 79.0 dB(A) 25% 50% 93.5 93.0 93.5 Efficiency (%) 75% 94.0 94.0 94.0 94.3 94.1 100% 94.3 25% 0.82 0.78 0.80 50% Power Factor 75% 0.87 0.85 0.87 100% 0.89 0.87 0.89 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.8 P2 (0,5;1,0) 3.7 3.7 3.8 P3 (0,25;1,0) 3.1 3.1 3.2 Losses (%) P4 (0,9;0,5) 3.2 3.2 3.4 P5 (0,5;0,5) 1.6 1.6 1.7 P6 (0,5;0,25) 1.1 1.1 1.1 P7 (0,25;0,25) 0.5 0.5 0.6 Drive end Non drive end Foundation loads 6314 C3 Bearing type 6314 C3 Max. traction : 208 kgf Sealing WSeal WSeal : 723 kaf Max. compression Lubrication interval 4000 h 4000 h Lubricant amount 27 g 27 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 Checked by Page Revision

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



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Three Phase Induction Motor - Squirrel Cage

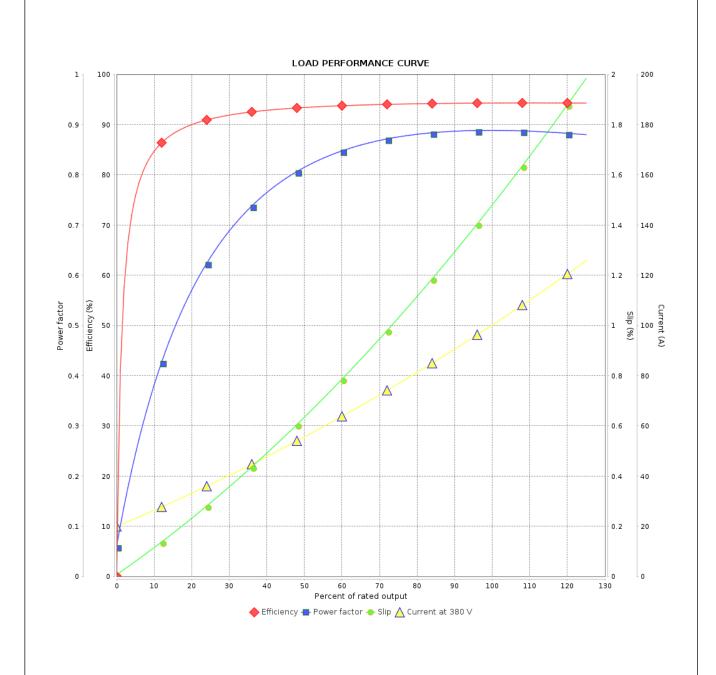


Customer :

Date

14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12761545



Performance	: 380 V 50 Hz 2P					
Rated current	: 99.6 A	Moment of inertia (J)		: 0.4888 kgm²		
LRC	: 7.5	Duty cycle		: S1		
Rated torque	: 18.4 kgfm	gfm Insulation class		: F		
_ocked rotor torque	: 229 %	Service factor		: 1.25		
Breakdown torque	: 229 %	Temperature rise		: 80 K		
Rated speed	: 2955 rpm	Design		: N		
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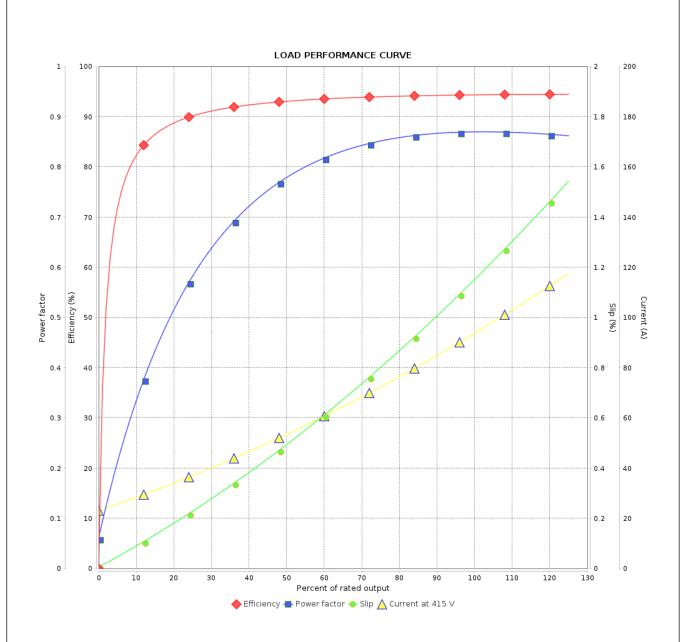
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Three Phase Induction Motor - Squirrel Cage



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Customer	

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12761545



Performance	: 415 V 50 Hz 2P				
Rated current	: 93.3 A	Moment of inertia (J)		: 0.4888 kgm²	
LRC	: 8.5 Duty cycle : 18.4 kgfm Insulation cla		;	: S1	
Rated torque			class : F		
Locked rotor torque	: 290 %	Service factor Temperature rise Design		: 1.25 : 80 K : N	
Breakdown torque	: 290 %				
Rated speed	: 2965 rpm				
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14/01/2024

Date

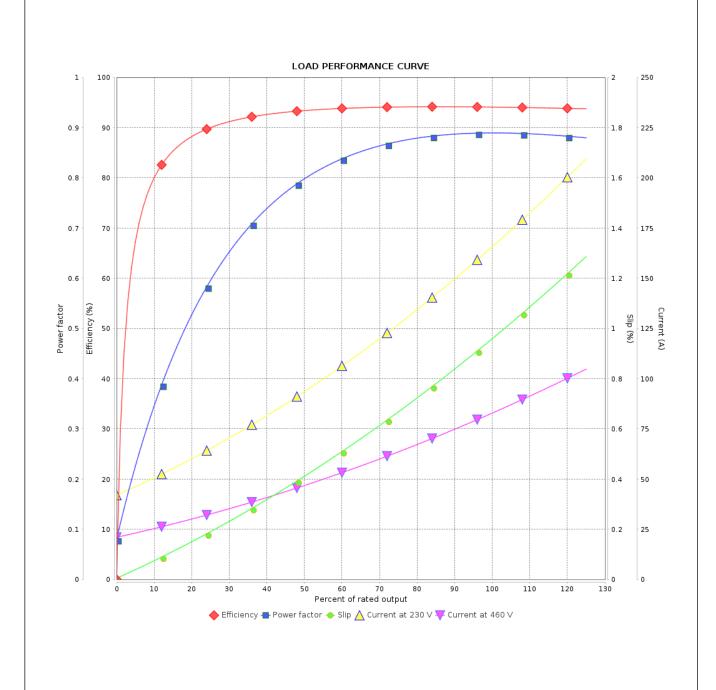
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12761545



Performance		: 230/460 V 60 Hz 2P					
Rated current LRC		65/82.4 A .6		Moment of inertia (J) Duty cycle		: 0.4888 kgm² : S1	
		5.3 kgfm		Insulation class		: F	
Locked rotor torque		10 %		Service factor			
Breakdown torqu		: 310 %		ure rise	: 80 K		
Rated speed	: 3	565 rpm	Design		: N		
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