DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12705357 Frame : 132S Cooling method : IC411 - TEFC Insulation class Mounting : B35L(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 : 73.0 kg : IP55 Moment of inertia (J) : 0.0528 kgm² Protection degree Design : N 7.5 Output [HP] 7.5 7.5 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 10.6 10.2 18.1/9.07 L. R. Amperes [A] 102 97.4 189/94.3 LRC [A] 9.6 10.4 9.6 No load current [A] 4.70 8.00/4.00 4.00 Rated speed [RPM] 1770 1460 1465 Slip [%] 2.67 2.33 1.67 Rated torque [kgfm] 3.73 3.72 3.08 Locked rotor torque [%] 210 260 260 Breakdown torque [%] 290 360 390 Service factor 1.25 1.00 1.00 Temperature rise 80 K 80 K 80 K 30s (cold) 17s (hot) Locked rotor time 21s (cold) 12s (hot) 25s (cold) 14s (hot) Noise level² 56.0 dB(A) 56.0 dB(A) 58.0 dB(A) 25% 50% 90.4 89.6 88.5 Efficiency (%) 75% 90.7 90.7 91.0 100% 90.3 90.8 91.7 25% 0.71 0.64 0.65 50% Power Factor 75% 0.82 0.76 0.77 100% 0.87 0.83 0.83 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 10.3 8.7 P2 (0,5;1,0) 8.2 7.7 6.9 7.7 P3 (0,25;1,0) 7.3 6.5 Losses (%) P4 (0,9;0,5) 5.7 5.4 4.8 P5 (0,5;0,5) 3.7 3.5 3.1 P6 (0,5;0,25) 2.7 2.5 2.3 P7 (0,25;0,25) 1.5 1.8 Drive end Non drive end Foundation loads Bearing type 6308 ZZ 6207 ZZ : 185 kgf Max traction V'Ring V'Ring Sealing : 258 kaf Max. compression Lubrication interval Lubricant amount 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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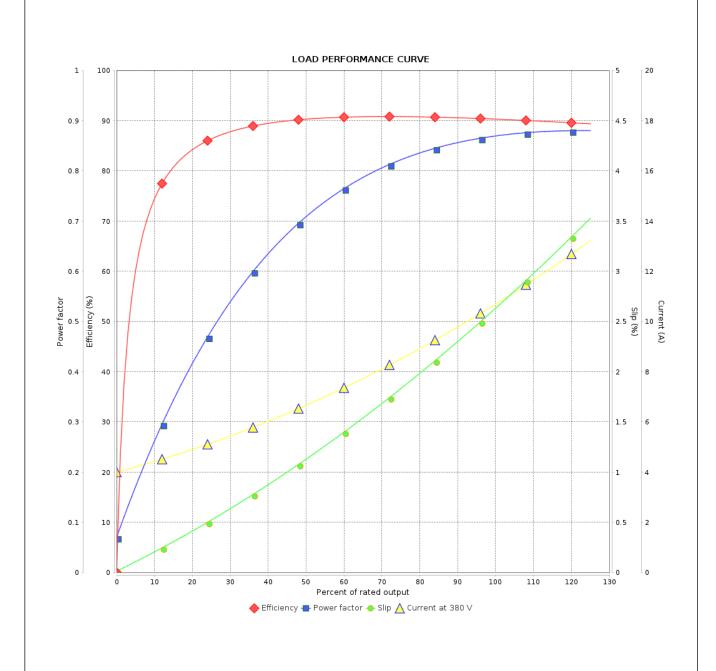
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12705357



Performance	: 380 V 50 Hz 4P					
Rated current	: 10.6 A	Moment of inertia (J)		: 0.0528 kgm²		
LRC	: 9.6	Duty cycle		: S1		
Rated torque	: 3.73 kgfm	Insulation class		: F		
Locked rotor torque	: 210 %	Service fa	Service factor		: 1.00	
Breakdown torque	: 290 %	Temperatu	Temperature rise			
Rated speed	: 1460 rpm	Design	Design			
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Three Phase Induction Motor - Squirrel Cage



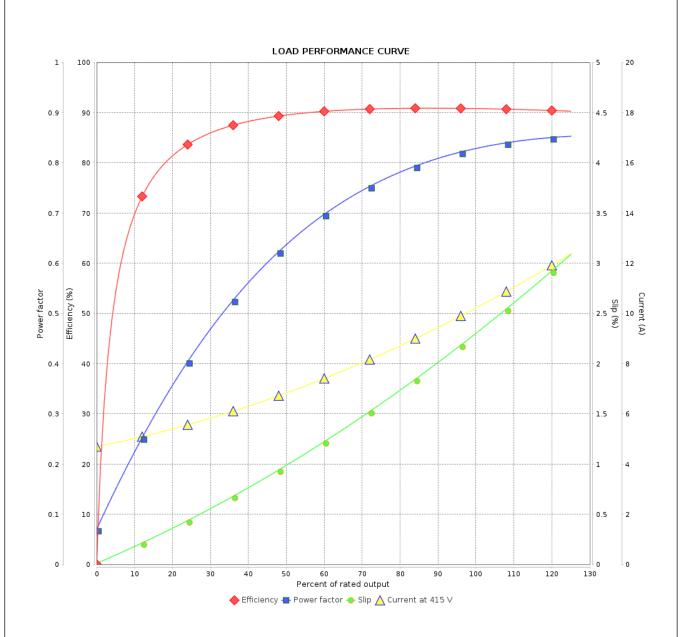
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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12705357



Performance	: 4	415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 9 : 3 : ue : 2 : 2	10.2 A 9.6 3.72 kgfm 260 % 360 % 1465 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0528 kgm² : S1 : F : 1.00 : 80 K : N	
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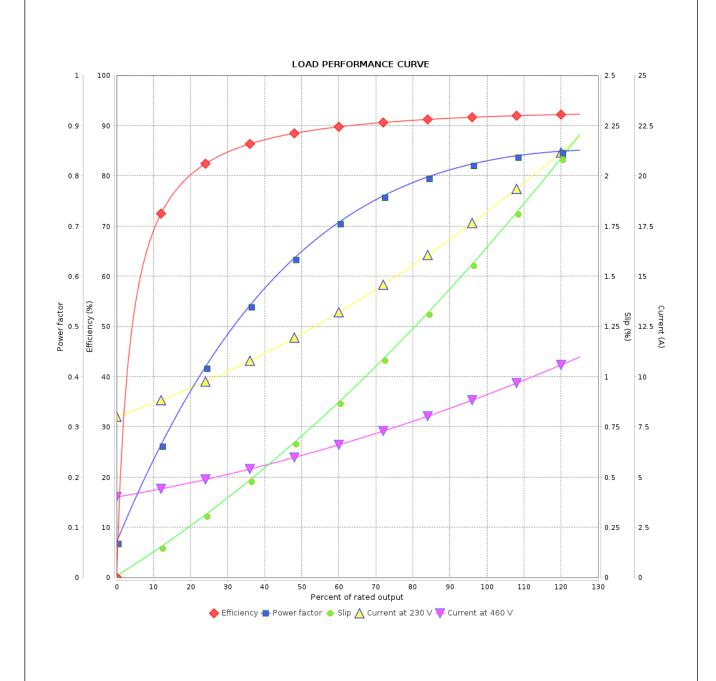
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12705357



Performance		: 230/460 V 60 Hz 4P						
Rated current :		8.1/9.07 A	Moment o	Moment of inertia (J)		2		
LRC : 10		0.4	Duty cycle	Duty cycle				
Rated torque :		.08 kgfm	Insulation class		: F			
•		60 % ¯	Service fa	Service factor		: 1.25		
Breakdown torque	: 39	90 %	Temperati	Temperature rise				
Rated speed	: 17	: 1770 rpm Design			: N			
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