DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12645345 Frame : 160M 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 : 139 kg Protection degree : IP55 Moment of inertia (J) : 0.1004 kgm² Design : N 15 Output [HP] 15 15 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 21.5 20.7 36.4/18.2 L. R. Amperes [A] 161 176 309/155 LRC [A] 7.5 8.5 8.5 No load current [A] 9.00 10.2 18.2/9.08 Rated speed [RPM] 1470 1476 1780 Slip [%] 2.00 1.60 1.11 Rated torque [kgfm] 7.41 7.38 6.12 Locked rotor torque [%] 270 300 220 Breakdown torque [%] 250 310 330 Service factor 1.25 1.00 1.00 Temperature rise 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 19s (cold) 11s (hot) 28s (cold) 16s (hot) Noise level² 61.0 dB(A) 61.0 dB(A) 64.0 dB(A) 25% 50% 91.0 90.4 89.5 Efficiency (%) 75% 91.4 91.4 91.7 91.4 100% 91.4 92.4 25% 0.69 0.62 0.63 50% Power Factor 75% 0.79 0.74 0.75 100% 0.85 0.81 0.82 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 9.0 9.0 7.9 P2 (0,5;1,0) 7.3 7.3 6.4 P3 (0,25;1,0) 6.9 6.9 6.0 Losses (%) P4 (0,9;0,5) 5.2 5.2 4.6 P5 (0,5;0,5) 3.5 3.5 3.1 P6 (0,5;0,25) 2.6 2.6 2.3 P7 (0,25;0,25) 1.9 1.9 1.6 Drive end Non drive end Foundation loads 6309 C3 Bearing type 6209 C3 Max. traction : 248 kgf Sealing V'Rina V'Rina : 387 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 Checked by Page Revision 25/10/2024 1/5 Date

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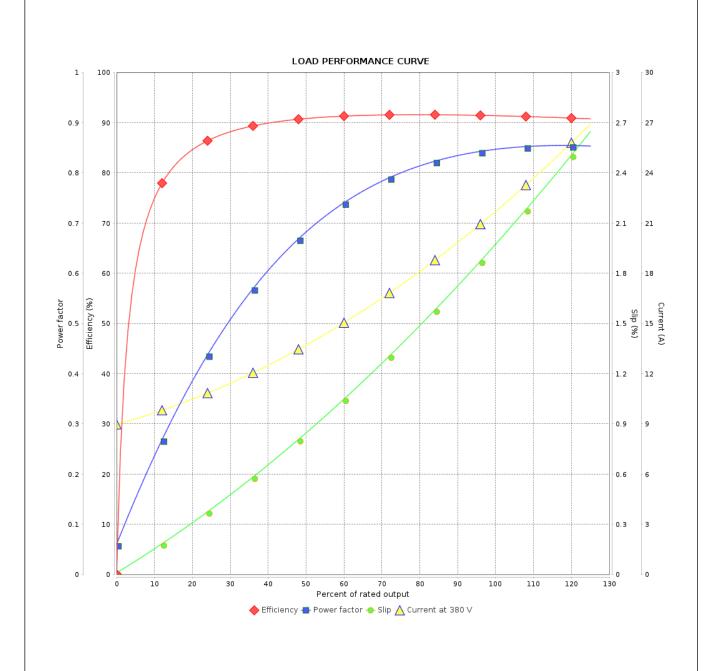
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12645345



Performance	: 380 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 21.5 A : 7.5 : 7.41 kgfm : 220 % : 250 % : 1470 rpm	Moment Duty cycl Insulation Service f. Tempera Design	n class actor	: 0.1004 kgm : S1 : F : 1.00 : 80 K : N	2
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Three Phase Induction Motor - Squirrel Cage



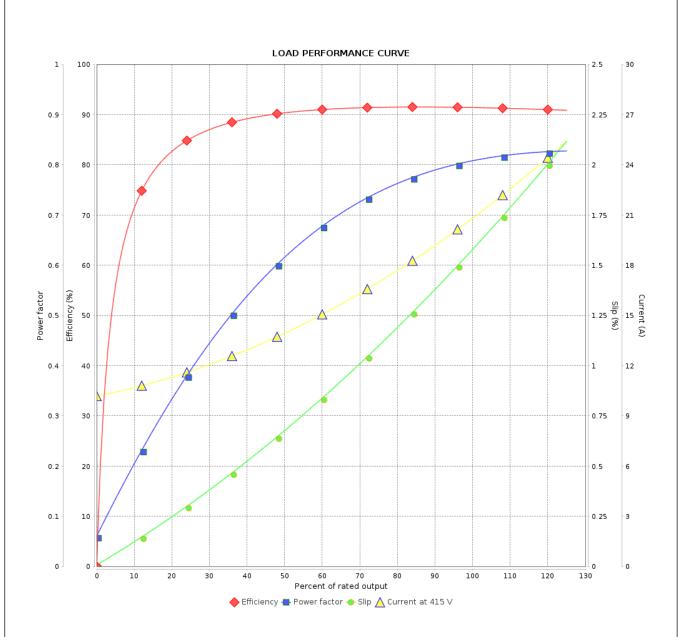
Customer :

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Date

25/10/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12645345



Performance		: 415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 20.7 A : 8.5 : 7.38 kgfm : 270 % : 310 % : 1476 rpm	Moment of Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.1004 kgm² : S1 : F : 1.00 : 80 K : N	
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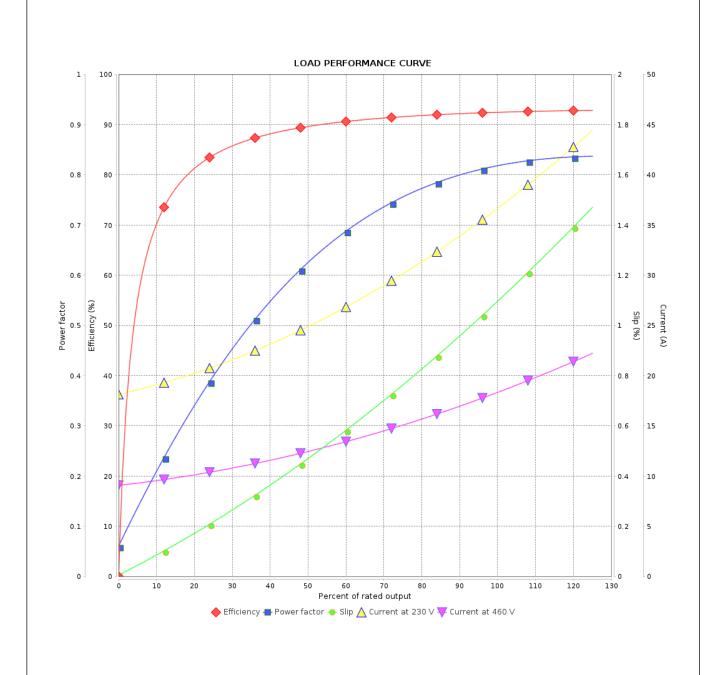
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12645345



Performance	: 2	: 230/460 V 60 Hz 4P						
Rated current	: 3	: 36.4/18.2 A Moment o		f inertia (J)	: 0.1004 kgm²	0.1004 kgm²		
LRC	: 8	.5	Duty cycle		: S1			
Rated torque	: 6	.12 kgfm	Insulation class		: F			
Locked rotor torque	e : 3	00 %	Service factor		: 1.25			
Breakdown torque	: 3	30 %	Temperature rise		: 80 K			
Rated speed	: 1	780 rpm	Design		: N			
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