DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 13637403 : IC411 - TEFC Frame : 112M Cooling method 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 : 48.8 kg Protection degree : IP55 Moment of inertia (J) : 0.0095 kgm² Design : N 7.5 Output [HP] 7.5 7.5 Poles 2 2 2 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 208-230/460 Rated current [A] 10.6 10.2 20.1-18.1/9.07 L. R. Amperes [A] 79.5 86.7 189-171/85.3 LRC [A] 7.5 8.5 9.4 No load current [A] 4.10 5.06 9.24-8.36/4.18 Rated speed [RPM] 2880 2900 3510 Slip [%] 4.00 3.33 2.50 Rated torque [kgfm] 1.55 1.89 1.88 Locked rotor torque [%] 270 340 330 Breakdown torque [%] 370 490 310 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 27s (cold) 15s (hot) 25s (cold) 14s (hot) 32s (cold) 18s (hot) Noise level² 62.0 dB(A) 62.0 dB(A) 66.0 dB(A) 25% 50% 84.0 84.0 85.5 Efficiency (%) 75% 89.0 89.0 88.5 100% 89.2 89.2 89.5 25% 0.74 0.65 0.68 50% Power Factor 75% 0.84 0.77 0.79 100% 0.88 0.84 0.85 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 11.5 11.5 11.1 P2 (0,5;1,0) 8.8 8.8 8.5 7.9 P3 (0,25;1,0) 8.1 8.1 Losses (%) P4 (0,9;0,5) 6.6 6.6 6.4 P5 (0,5;0,5) 4.0 4.0 3.9 P6 (0,5;0,25) 2.9 2.9 2.9 P7 (0,25;0,25) 1.9 1.9 1.8 Drive end Non drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ Max. traction : 135 kgf V'Ring Sealing V'Rina : 184 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

1/5

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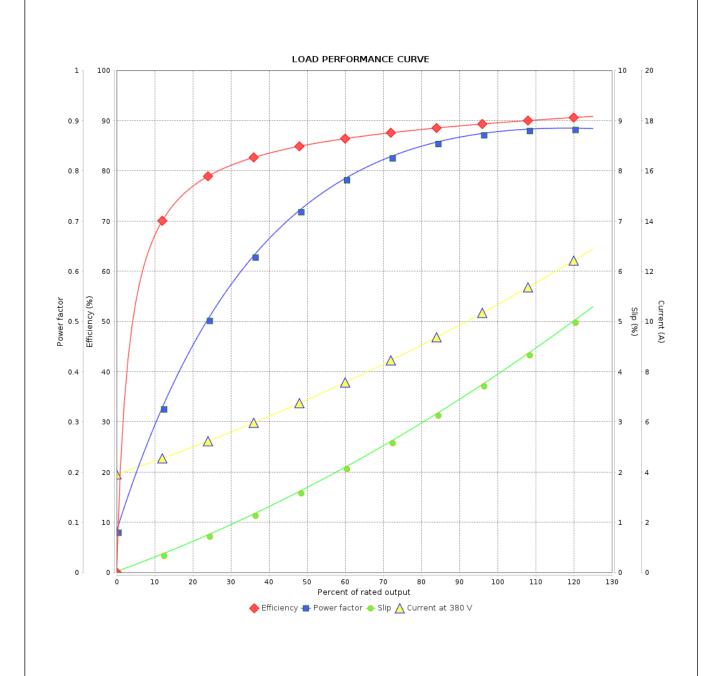
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13637403



Performance		: 380 V 50 Hz 2P						
Rated current		0.6 A	A Moment of inertia (J)		: 0.0095 kgm²			
LRC :		5	Duty cycle	Duty cycle		: S1		
Rated torque	: 1.	.89 kgfm	Insulation class		: F			
Locked rotor torq	ue : 2	70 %	Service factor		: 1.25			
Breakdown torqu	ie : 3°	10 %	Temperati	Temperature rise				
Rated speed	: 28	880 rpm	Design		: N			
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Date	14/01/2024				3/5			

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Three Phase Induction Motor - Squirrel Cage



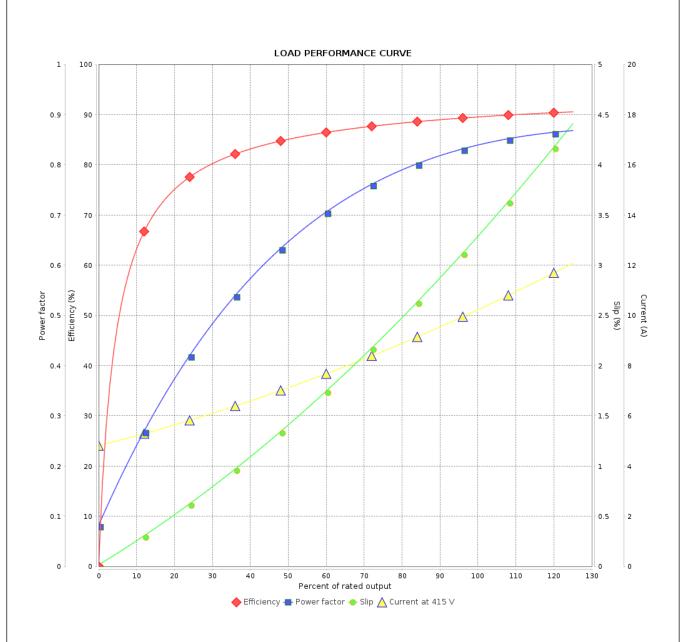
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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13637403



Performance		: 415 V 50 Hz 2P				
Rated current LRC Rated torque Locked rotor tord Breakdown torque Rated speed	•	: 10.2 A : 8.5 : 1.88 kgfm : 340 % : 370 % : 2900 rpm	Moment Duty cyc Insulation Service f Tempera Design	n class actor	: 0.0095 kgm² : S1 : F : 1.25 : 80 K : N	
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Page

4/5

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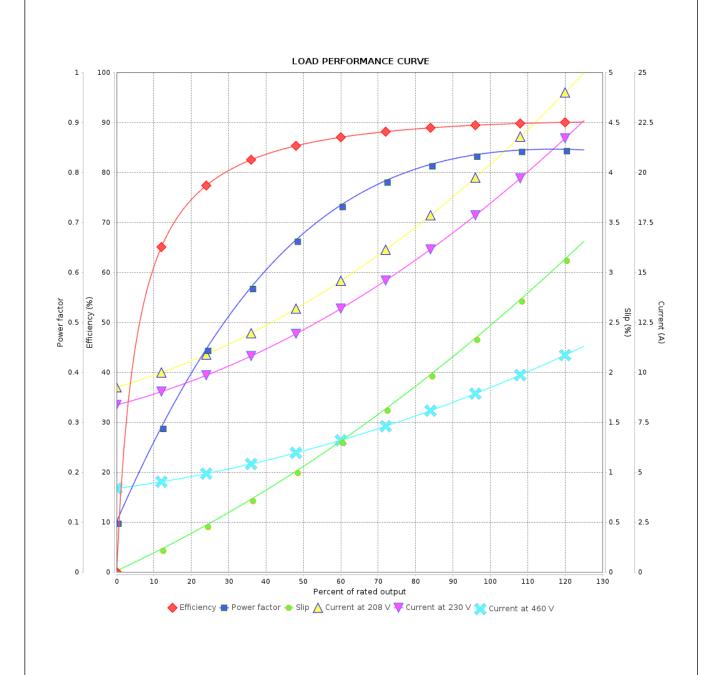
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13637403



		,					
Performance	: 208-230/460 V 60 Hz 2P						
Rated current	: 20.1-18.1/9.07 A	Moment of inertia (J)		: 0.0095 kgm²			
LRC	: 9.4	Duty cycle	Duty cycle		: S1		
Rated torque	: 1.55 kgfm Insu		class	: F			
Locked rotor torque	: 330 %	Service fa	ctor	: 1.25			
Breakdown torque	: 490 %	Temperature rise Design		: 80 K : N			
Rated speed	: 3510 rpm						
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5/5

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