DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 13174491 : 200L Cooling method : IC411 - TEFC Frame Mounting Insulation class : 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 : 289 kg : 0.3994 kgm² Moment of inertia (J) Protection degree : IP55 : N Design 50 Output [HP] 50 50 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 71.3 68.5 121/60.7 L. R. Amperes [A] 499 548 1008/504 LRC [A] 7.0 8.0 8.3 No load current [A] 58.8/29.4 28.8 34.5 Rated speed [RPM] 1475 1480 1780 Slip [%] 1.67 1.33 1.11 Rated torque [kgfm] 24.6 24.5 20.4 320 Locked rotor torque [%] 260 360 Breakdown torque [%] 360 270 330 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 25s (cold) 14s (hot) 32s (cold) 18s (hot) Noise level² 63.0 dB(A) 63.0 dB(A) 66.0 dB(A) 25% 92.9 93.0 93.5 50% Efficiency (%) 75% 93.4 93.5 94.0 100% 93.9 94.0 94.5 25% 0.69 0.60 0.63 50% Power Factor 75% 0.79 0.73 0.75 100% 0.84 0.80 0.81 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 5.6 P2 (0,5;1,0) 4.8 4.7 4.3 P3 (0,25;1,0) 4.2 4.1 3.7 Losses (%) P4 (0,9;0,5) 3.7 3.6 3.3 P5 (0,5;0,5) 2.3 2.3 2.1 P6 (0,5;0,25) 1.8 1.8 1.6 P7 (0,25;0,25) 1.0 Drive end Non drive end Foundation loads Bearing type 6312 C3 6212 C3 : 778 kgf Max traction V'Rina V'Rina : 1067 kaf Sealing Max. compression Lubrication interval 20000 h 20000 h 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.

Rev.		Changes Summary	Performed	Checked	Date
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Date	14/01/2024			1/5	

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Three Phase Induction Motor - Squirrel Cage



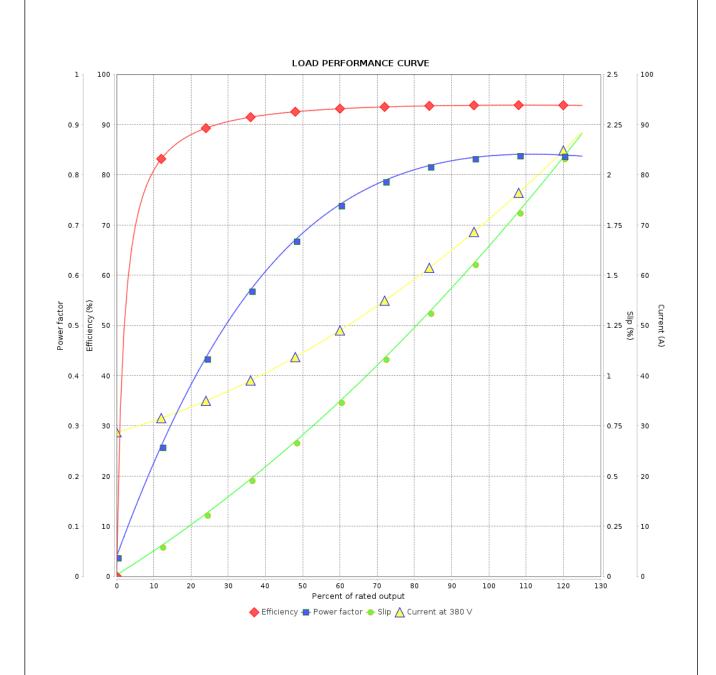
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14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13174491



Performance	: 380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		Duty cycle Insulation class Service factor Temperature rise		: 0.3994 kgm² : S1 : F : 1.25 : 80 K : N		
Rev. Changes Summary		'	Performed	Checked	Date	
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Page

3/5

Revision

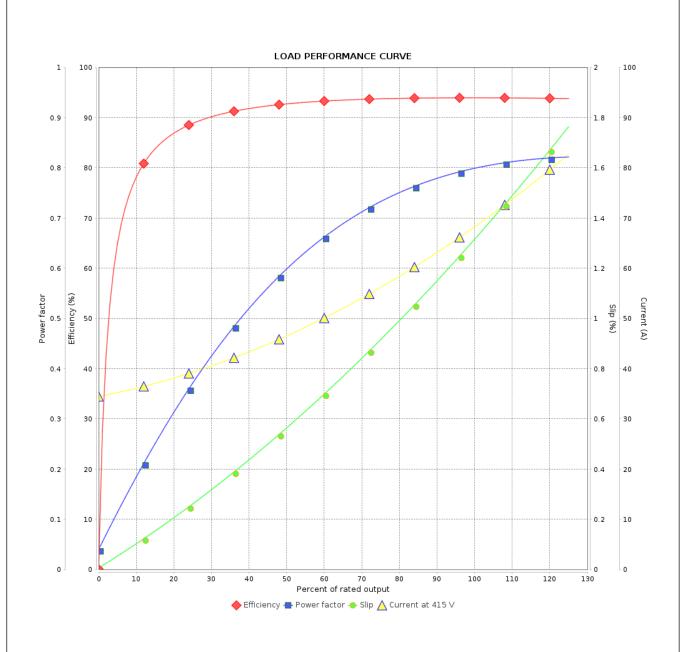
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 Tru-Metric IE3 Three-Phase Product code: 13174491



	·					
Performance	: 4	15 V 50 Hz 4P				
Rated current :		S8.5 A Moment of inertia (J)		: 0.3994 kgm	2	
LRC : 8.		.0	Duty cycle	Duty cycle		
Rated torque	Rated torque : 24		Insulation class		: F	
Locked rotor tord	·		actor	: 1.25		
Breakdown torque ::		30 %	Temperat	Temperature rise		
Rated speed : 1480		480 rpm	Design	Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
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Date	14/01/2024	1			4/5	

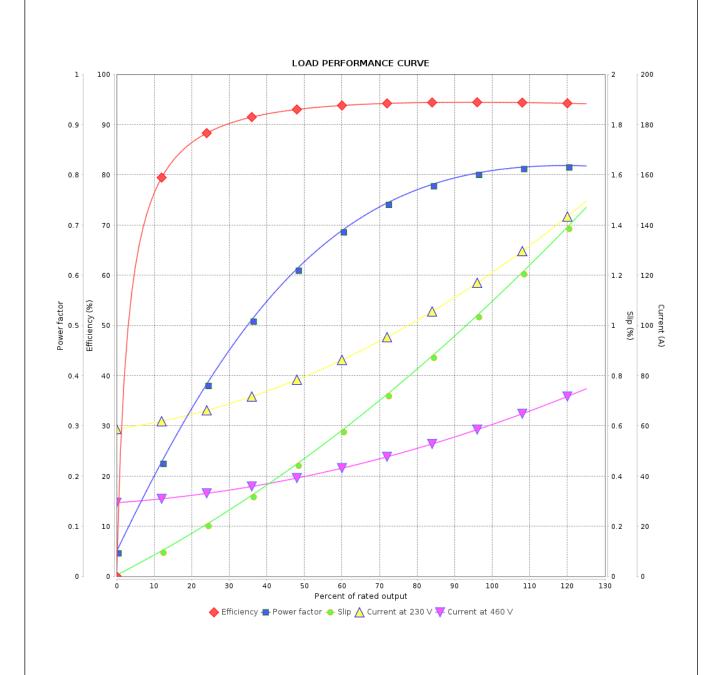
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Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 Tru-Metric IE3 Three-Phase Product code: 13174491



Performance	: 23	30/460 V 60 Hz 4P				
Rated current	: 1:	21/60.7 A	Moment o	of inertia (J)	: 0.3994 kgm²	2
LRC : 8		.3	Duty cycle	Duty cycle		
Rated torque :		0.4 kgfm	Insulation	Insulation class		
•		60 %	Service fa	Service factor		
Breakdown torque	: 30	60 %	Temperature rise		: 80 K	
Rated speed	: 1	: 1780 rpm De			: N	
Rev.	Changes Summary		Performed	Checked	Date	
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Checked by					Page	Revision
Date	14/01/2024	1			5/5	