### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 16572113 Frame : 200L Cooling method : IC411 - TEFC Insulation class Mounting : B35L(E) : F Duty cycle : S1 Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : VFD Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 258 kg : IP55 Moment of inertia (J) : 0.3468 kgm<sup>2</sup> Protection degree Design : N 40 Output [HP] 40 40 Poles 4 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 208-230/460 380 415 Rated current [A] 109-98.8/49.4 58.0 55.7 L. R. Amperes [A] 1005-909/454 423 457 LRC [A] 7.3 8.2 9.2 44.0-51.0/25.5 No load current [A] 24.5 27.0 Rated speed [RPM] 1480 1485 1785 Slip [%] 1.00 0.83 1.33 Rated torque [kgfm] 19.5 16.3 19.6 Locked rotor torque [%] 250 340 310 Breakdown torque [%] 280 310 350 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 23s (cold) 13s (hot) 19s (cold) 11s (hot) 16s (cold) 9s (hot) Noise level<sup>2</sup> 66.0 dB(A) 63.0 dB(A) 63.0 dB(A) 25% 0.000 0.000 0.000 50% 92.8 92.6 93.4 Efficiency (%) 75% 93.7 93.3 93.7 93.6 100% 94.1 93.6 0.00 25% 0.00 0.00 50% 0.63 0.69 0.60 Power Factor 75% 0.75 0.79 0.72 100% 0.81 0.84 0.80 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 6.0 6.6 6.6 P2 (0,5;1,0) 4.7 5.1 5.1 P3 (0,25;1,0) 4.3 4.6 4.6 Losses (%) P4 (0,9;0,5) 3.5 3.9 3.9 P5 (0,5;0,5) 2.3 2.5 2.5 P6 (0,5;0,25) 1.8 1.9 1.9 P7 (0,25;0,25) 1.2 1.3 1.3 Drive end Non drive end Foundation loads Bearing type 6312 C3 6212 C3 : 633 kgf Max traction Sealing V'Rina V'Rina : 891 kgf 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. Performed Checked Rev. **Changes Summary** Date Performed by Checked by Page Revision 25/10/2024 1/5 Date

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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



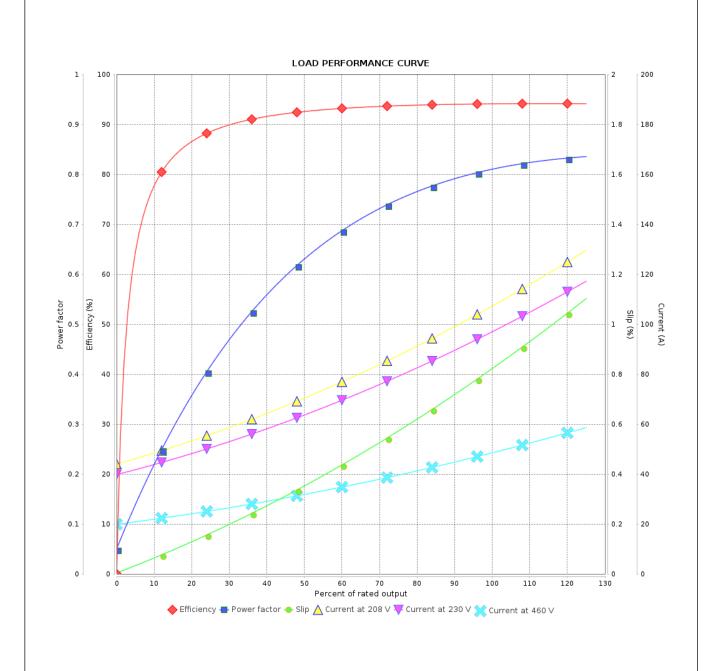
Customer :

Checked by

Date

25/10/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16572113



Performance : 208-2		: 208-230/460 V 60 H	lz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 109-98.8/49.4 A : 9.2 : 16.3 kgfm : 340 % : 350 % : 1785 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3468 kgm² : S1 : F : 1.25 : 80 K : N		
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



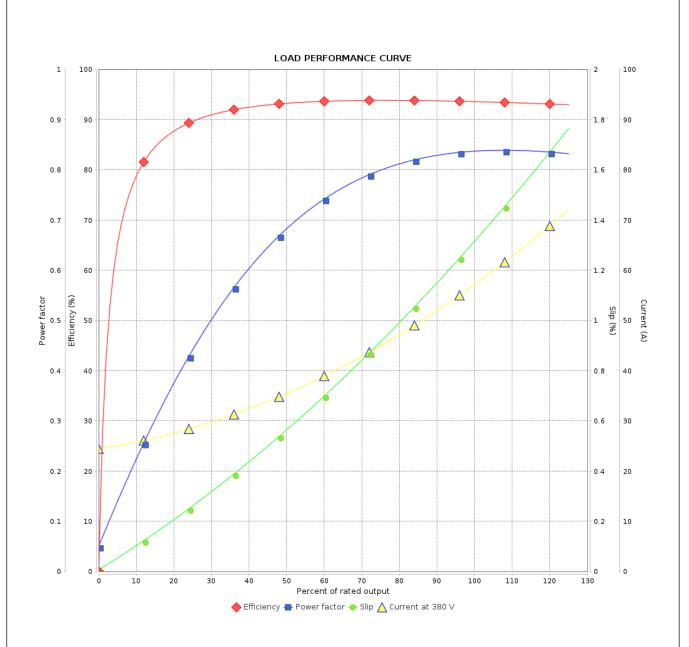
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25/10/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16572113



Performance : 380 V 50 Hz 4P						
Rated current LRC Rated torque		: 58.0 A : 7.3 : 19.6 kgfm	Moment of Duty cycles Insulation		: 0.3468 kgm² : S1 : F	
Locked rotor torque Breakdown torque Rated speed		: 250 % : 280 % : 1480 rpm	Service fa	Service factor Temperature rise Design		
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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



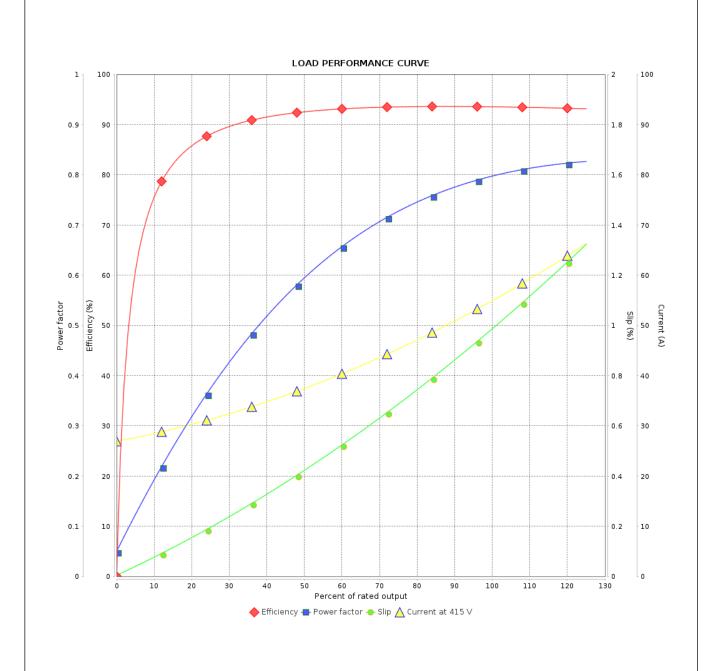
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25/10/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16572113



Performance	: 415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 55.7 A : 8.2 : 19.5 kgfm : 310 % : 310 % : 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3468 kgm² : S1 : F : 1.25 : 80 K : N	
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