### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12739945 Frame : 90L 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 : Direct On Line Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 26.4 kg : IP55 Moment of inertia (J) : 0.0066 kgm<sup>2</sup> Protection degree Design : N Output [HP] 2 Poles 4 4 4 Frequency [Hz] 50 50 60 Rated voltage [V] 380 415 230/460 Rated current [A] 3.22 3.17 5.66/2.83 L. R. Amperes [A] 20.9 23.8 47.0/23.5 LRC [A] 6.5 7.5 8.3 No load current [A] 3.10/1.55 1.55 1.85 Rated speed [RPM] 1435 1450 1755 Slip [%] 4.33 3.33 2.50 Rated torque [kgfm] 1.01 1.00 0.827 Locked rotor torque [%] 229 280 300 Breakdown torque [%] 300 350 250 Service factor 1.00 1.00 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 25s (cold) 14s (hot) 21s (cold) 12s (hot) 25s (cold) 14s (hot) Noise level<sup>2</sup> 49.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 85.0 83.1 82.5 Efficiency (%) 75% 85.3 85.0 85.5 100% 85.3 85.6 86.5 25% 0.63 0.54 0.55 50% Power Factor 75% 0.75 0.68 0.68 100% 0.83 0.77 0.77 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 16.1 15.8 14.6 P2 (0,5;1,0) 13.3 13.0 12.0 P3 (0,25;1,0) 13.4 13.1 12.1 Losses (%) P4 (0,9;0,5) 9.4 9.2 8.5 P5 (0,5;0,5) 6.6 6.4 5.9 P6 (0,5;0,25) 5.2 5.0 4.7 P7 (0,25;0,25) 3.8 3.7 3.4 Drive end Non drive end Foundation loads Bearing type 6205 ZZ 6204 ZZ : 69 kgf Max traction V'Ring V'Ring Sealing : 95 kgf 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 24/10/2024 1/5 Date

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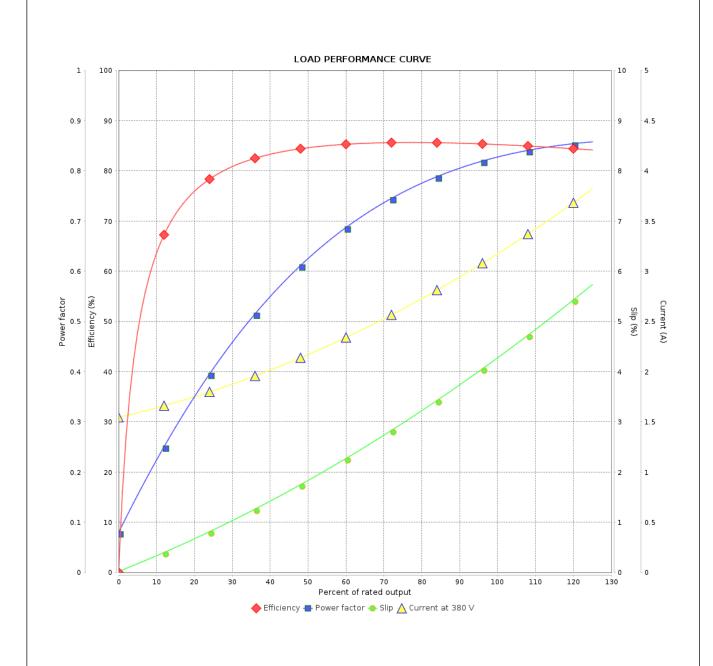
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12739945



Performance	: :	380 V 50 Hz 4P					
Rated current		3.22 A	2 A Moment of inertia (J)		: 0.0066 kgm²		
LRC :		6.5	Duty cycle	Duty cycle		: S1	
Rated torque		1.01 kgfm	Insulation class		: F		
Locked rotor torque		229 %	Service fa	Service factor		: 1.00	
Breakdown torque	e : 2	250 %	Temperatu	Temperature rise		: 80 K	
Rated speed	: '	1435 rpm	Design		: N		
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



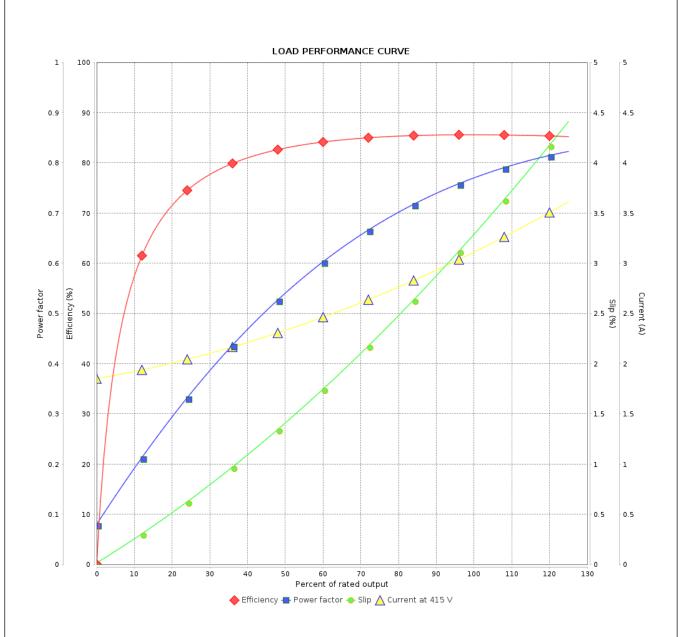
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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12739945



Performance	:	415 V 50 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	3.17 A 7.5 1.00 kgfm 280 % 300 % 1450 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 0.0066 kgm² : S1 : F : 1.00 : 80 K : N	
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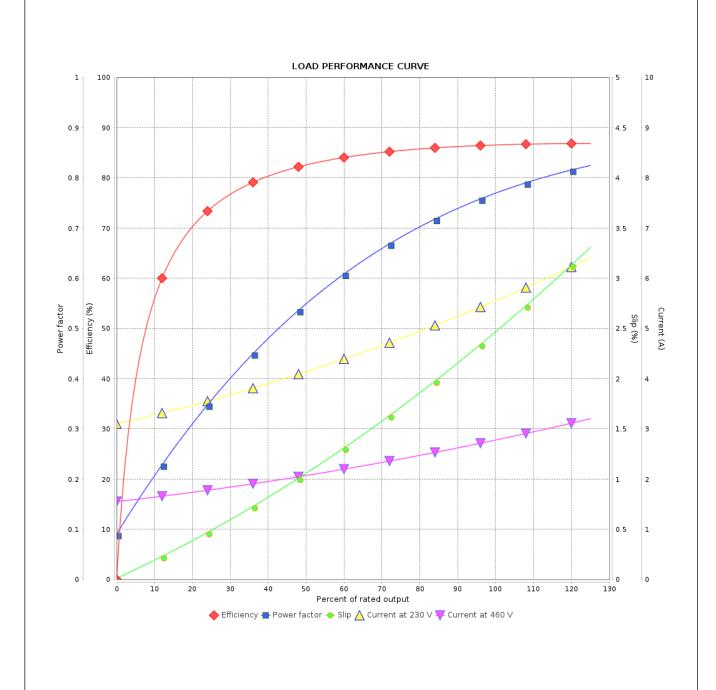
## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12739945



Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque		66/2.83 A 3 827 kgfm 00 %	Moment of inertia (J) Duty cycle Insulation class Service factor		: 0.0066 kgm² : S1 : F : 1.25	
Breakdown torque Rated speed		50 % 755 rpm	Temperature rise Design		: 80 K : N	
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