### **DATA SHEET**



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 Tru-Metric IE3 Three-Phase Product code: 12820476 Frame : 112M Cooling method : IC411 - TEFC Insulation class Mounting : F : B3L(E) 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> : 44.2 kg Protection degree : IP55 Moment of inertia (J) : 0.0182 kgm<sup>2</sup> Design : N 5.5 Output [HP] 5.5 5.5 Poles 4 4 4 50 60 Frequency [Hz] 50 Rated voltage [V] 380 415 230/460 Rated current [A] 8.47 8.09 14.6/7.28 L. R. Amperes [A] 59.3 56.6 116/58.2 7.0 LRC [A] 7.0 8.0 8.50/4.25 No load current [A] 4.15 4.95 Rated speed [RPM] 1445 1455 1755 Slip [%] 3.67 3.00 2.50 Rated torque [kgfm] 2.27 2.76 2.74 Locked rotor torque [%] 250 200 260 Breakdown torque [%] 340 350 270 Service factor 1.25 1.25 1.25 Temperature rise 80 K 80 K 80 K Locked rotor time 27s (cold) 15s (hot) 27s (cold) 15s (hot) 34s (cold) 19s (hot) Noise level<sup>2</sup> 56.0 dB(A) 56.0 dB(A) 56.0 dB(A) 25% 50% 89.3 88.2 87.5 Efficiency (%) 75% 89.0 88.9 89.5 100% 88.6 89.3 89.5 25% 0.65 0.57 0.58 50% Power Factor 75% 0.76 0.70 0.70 100% 0.81 0.77 0.77 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 12.3 11.4 11.2 10.3 P2 (0,5;1,0) 9.6 9.4 P3 (0,25;1,0) 10.0 9.3 9.2 Losses (%) P4 (0,9;0,5) 6.9 6.4 6.3 P5 (0,5;0,5) 5.0 4.6 4.5 P6 (0,5;0,25) 3.8 3.5 3.4 P7 (0,25;0,25) 2.8 2.6 2.6 Drive end Non drive end Foundation loads Bearing type 6207 ZZ 6206 ZZ Max. traction : 145 kgf V'Ring Sealing V'Rina : 189 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 fu	ıll load.				
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#### Three Phase Induction Motor - Squirrel Cage



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# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



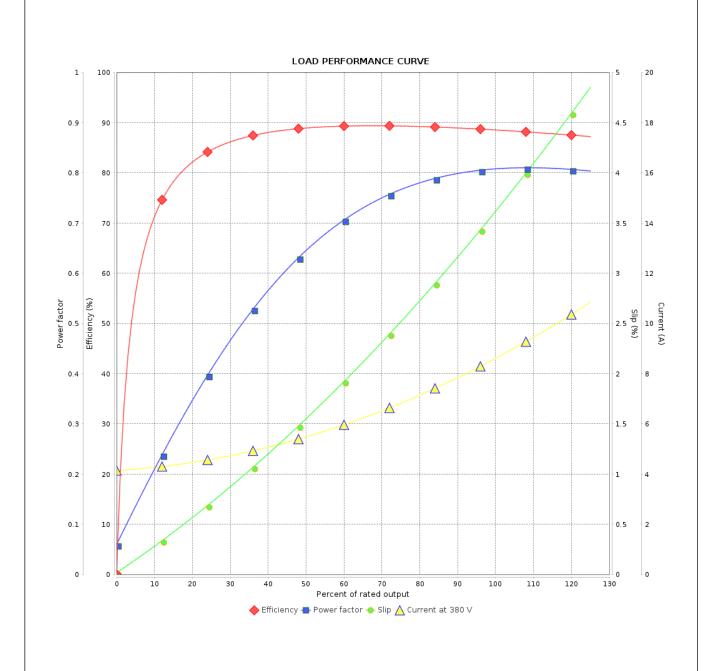
Customer :

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14/01/2024

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12820476



Performance	: 3	80 V 50 Hz 4P						
Rated current	: 8	.47 A	Moment of inertia (J)		: 0.0182 kgm²			
LRC		.0	Duty cycle		: S1			
Rated torque	: 2	.76 kgfm	Insulation	class	: F			
Locked rotor tord	que : 2	00 %	Service fa	Service factor		: 1.25		
Breakdown torqu	ue : 2	70 %	Temperati	Temperature rise		: 80 K		
Rated speed		445 rpm	Design	Design				
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## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



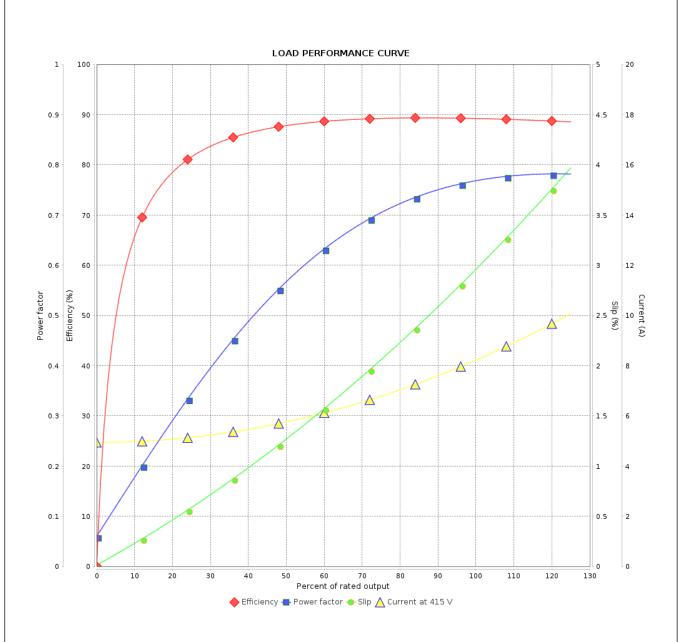
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Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12820476



Performance		: 415 V 50 Hz 4F	•				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 8.09 A : 7.0 : 2.74 kgfm : 260 % : 340 % : 1455 rpm	] 	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0182 kgm² : S1 : F : 1.25 : 80 K : N	
Trated Speed		. 1400 Ipili		Jesign		. ! \	
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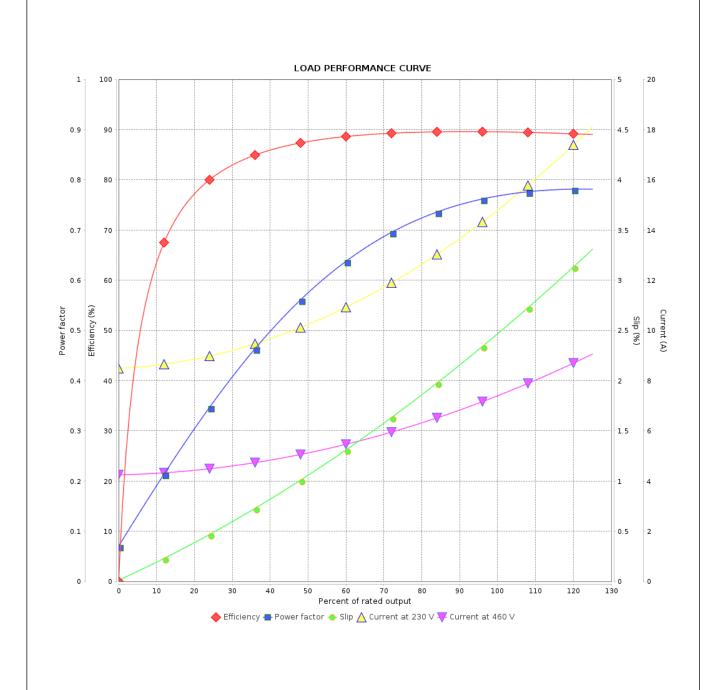
## LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12820476



Performance	: 23	30/460 V 60 Hz 4P					
Rated current : 14		I.6/7.28 A	Moment of	Moment of inertia (J)		2	
LRC : 8.		0	Duty cycle	Duty cycle			
Rated torque : 2		27 kgfm	Insulation class		: F		
•		50 %	Service factor		: 1.25		
I		50 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 17	Design		: N			
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