#### **DATA SHEET**

Checked by

Date

11/05/2025

#### Three Phase Induction Motor - Squirrel Cage



Customer Product line : W22 NEMA Premium Efficiency Product code: 12744764 Three-Phase Frame : 284/6TC Cooling method : IC411 - TEFC Insulation class Mounting : F-1 Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 195 kg Altitude Protection degree : IP55 Moment of inertia (J) : 0.3448 kgm<sup>2</sup> Design : B Output [HP] 15 15 15 15 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 40.1/20.0 23.9 23.0 22.4 L. R. Amperes [A] 220/110 103 110 114 LRC [A] 5.5x(Code G) 4.3x(Code E) 4.8x(Code F) 5.1x(Code F) No load current [A] 20.0/10.0 9.80 10.5 11.5 Rated speed [RPM] 880 720 725 725 3.33 Slip [%] 2.22 4.00 3.33 Rated torque [kgfm] 12.4 15.1 15.0 15.0 Locked rotor torque [%] 220 150 170 190 Breakdown torque [%] 229 200 200 220 Service factor 1.25 1.00 1.00 1.15 105 K Temperature rise 80 K 105 K 105 K Locked rotor time 39s (cold) 22s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) 27s (cold) 15s (hot) Noise level<sup>2</sup> 54.0 dB(A) 52.0 dB(A) 52.0 dB(A) 52.0 dB(A) 25% 50% 85.5 88.0 88.0 88.0 Efficiency (%) 75% 90.0 88.5 88.5 88.5 100% 89.5 88.6 88.6 88.6 25% 50% 0.61 0.66 0.62 0.59 Power Factor 75% 0.71 0.75 0.73 0.70 0.77 0.79 0.78 0.77 100% Losses at normative operating points (speed;torque), in percentage of rated output power 12.5 P1 (0,9;1,0) 12.5 11.4 12.5 P2 (0,5;1,0) 9.9 10.8 10.8 10.8 P3 (0,25;1,0) 10.2 9.3 10.2 10.2 P4 (0,9;0,5) 6.2 6.2 6.2 Losses (%) 5.6 P5 (0,5;0,5) 4.4 4.4 4.4 4.1 P6 (0,5;0,25) 2.8 3.1 3.1 3.1 P7 (0,25;0,25) 2.1 2.3 2.3 2.3 Non drive end Foundation loads Drive end Bearing type 6311 C3 6211 C3 Max. traction : 375 kgf Sealing V'Ring V'Ring Max. compression : 570 kgf 20000 h Lubrication interval 20000 h Lubricant amount 18 q 11 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 MG-1. (1) Looking the motor from the shaft end. (2) Measured at 1m and with tolerance of +3dB(A). (3) Approximate weight subject to changes after manufacturing process. Performed Checked Rev. **Changes Summary** Date Performed by

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USABLE @208V 42.9A SF 1.16 SFA 49.3A	Customer	:			
	Notes USABLE @208\	/ 42.9A SF 1.15 SFA 49.3A			
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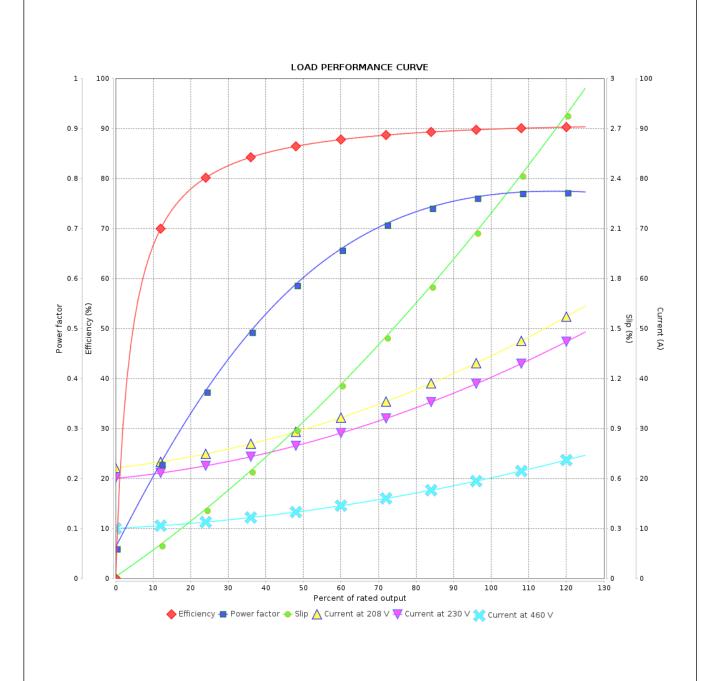
#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12744764

Three-Phase



Performance	: 230/460 V 60 Hz 8P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 40.1/20.0 A : 5.5 : 12.4 kgfm : 220 % : 229 % : 880 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class tor	: 0.3448 kgm <sup>2</sup> : Cont.(S1) : F : 1.25 : 80 K : B	
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#### Three Phase Induction Motor - Squirrel Cage

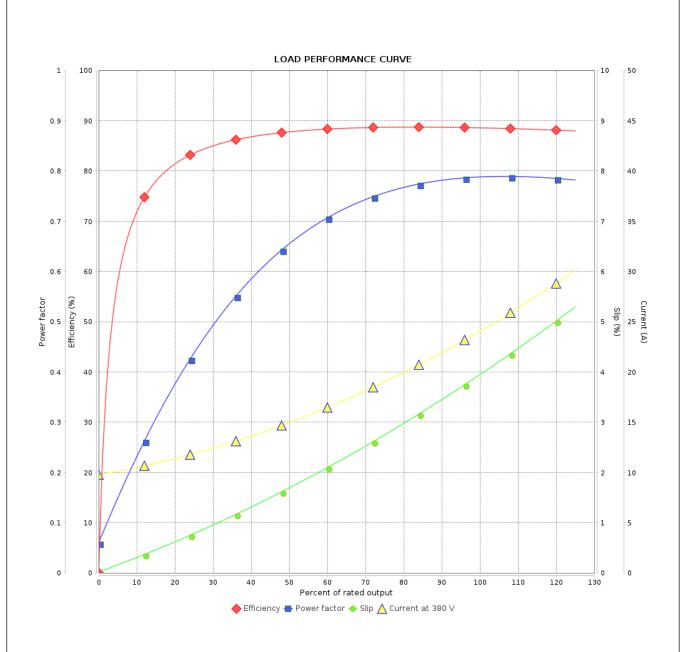


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12744764



			.,			
Performance	: 38	30 V 50 Hz 8P IE3				
Rated current	: 23	3.9 A Moment of inertia (J)		: 0.3448 kgm²		
LRC		3	Duty cycle		: Cont.(S1)	
Rated torque	: 15	5.1 kgfm	Insulation	class	: F	
Locked rotor tord	que : 15	50 %	Service factor		: 1.00	
Breakdown torqu	ie : 20	00 %	Temperatu	ıre rise	: 105 K	
Rated speed	: 72	20 rpm	Design		: B	
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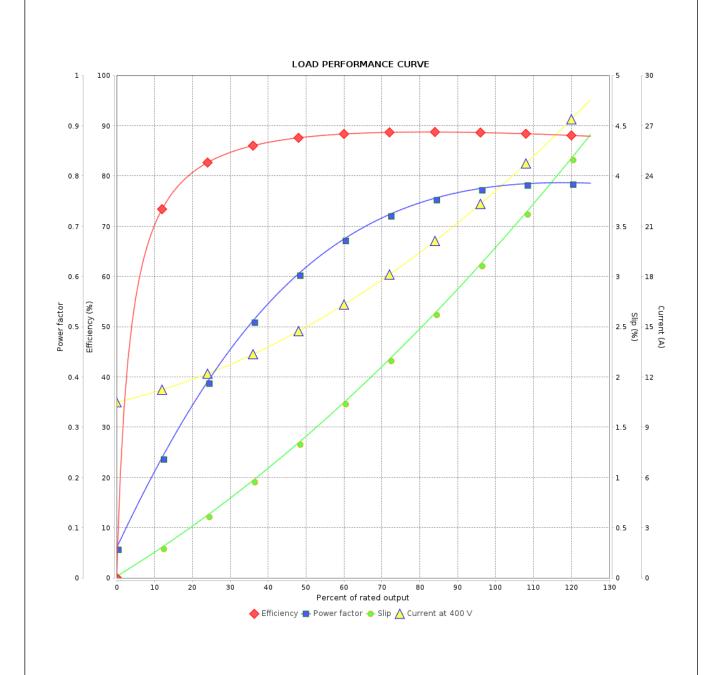
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Product code : 12744764

Three-Phase



Locked rotor torque Breakdown torque	: 170 % : 200 %	Service factor Temperature rise		: 1.00 : 105 K	
Rated speed	: 725 rpm	Design		: B	
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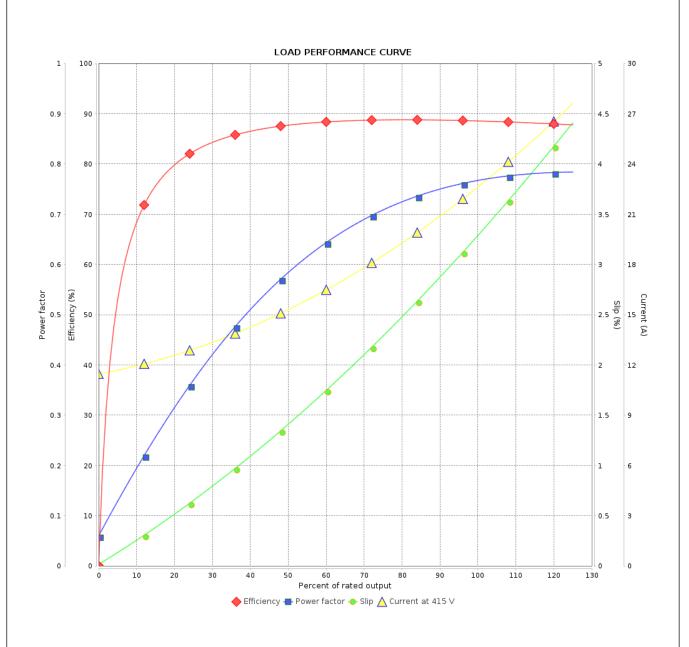


Customer :

Product line : W22 NEMA Premium Efficiency

Three-Phase

Product code: 12744764



Performance	: 415 V 50 Hz 8P IE3	,			
Rated current	: 22.4 A	Moment of inertia (J)		: 0.3448 kgm²	
LRC	: 5.1	Duty cycle		: Cont.(S1)	
Rated torque	: 15.0 kgfm	Insulation	class	:F `´	
Locked rotor torque	: 190 %	Service factor		: 1.15	
Breakdown torque	: 220 %	Temperature rise		: 105 K	
Rated speed	: 725 rpm	Design		: B	
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