DATA SHEET



Three Phase Induction Motor - Squirrel Cage Customer Product line : W22 NEMA Premium Efficiency Three-Product code: 14562090 : 213/5TC Cooling method Frame : IC411 - TEFC Insulation class Mounting : F-1 : F Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line Approx. weight³ : 74.7 kg Altitude : 1000 m.a.s.l. Protection degree : IP55 Moment of inertia (J) : 0.0753 kgm² Design : B Output [HP] 2 2 2 2 Poles 8 8 8 8 Frequency [Hz] 60 50 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 6.78/3.39 3.91 3.80 3.78 L. R. Amperes [A] 46.8/23.4 23.5 24.7 27.2 7.2x(Code L) LRC [A] 6.9x(Code L) 6.0x(Code J) 6.5x(Code K) No load current [A] 4.60/2.30 2.30 2.42 2.54 Rated speed [RPM] 875 715 720 725 Slip [%] 2.78 4.67 4.00 3.33 Rated torque [kgfm] 1.66 2.03 2.02 2.00 Locked rotor torque [%] 220 170 210 240 Breakdown torque [%] 290 210 250 280 Service factor 1.25 1.00 1.00 1.00 80 K 80 K 80 K 80 K Temperature rise Locked rotor time 70s (cold) 39s (hot) 70s (cold) 39s (hot) 70s (cold) 39s (hot) 70s (cold) 39s (hot) Noise level² 52.0 dB(A) 48.0 dB(A) 48.0 dB(A) 48.0 dB(A) 25% 50% 82.5 81.5 81.5 81.5 Efficiency (%) 75% 84.0 82.0 82.5 82.5 100% 85.5 82.0 82.5 82.5 25% 0.45 50% 0.52 0.49 0.46 Power Factor 75% 0.55 0.62 0.59 0.56 0.69 0.67 100% 0.65 0.71 Losses at normative operating points (speed;torque), in percentage of rated output power P1 (0,9;1,0) 24.0 24.0 19.1 24.8 P2 (0,5;1,0) 18.2 23.9 23.0 23.0 P3 (0,25;1,0) 17.9 23.7 22.9 22.9 P4 (0,9;0,5) 12.1 12.1 Losses (%) 9.5 12.6 P5 (0,5;0,5) 7.8 10.5 10.0 10.0 P6 (0,5;0,25) 5.8 7.9 7.6 7.6 P7 (0,25;0,25) 4.5 6.2 5.9 5.9 Foundation loads Drive end Non drive end Bearing type 6308 ZZ 6207 ZZ : 66 kaf Max. traction Sealing V'Ring V'Ring : 141 kgf Max. compression Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM 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.

	Changes Summary		Performed	Checked	Date
				Page	Revision
15/01/2024				1 / 6	
	15/01/2024	15/01/2024	15/01/2024	15/01/2024	Page

DATA SHEET



Three Phase Induction Motor - Squirrel Cage	
Customer :	
Notes USABLE @208V 7.49A SF 1.15 SFA 8.62A	

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by		-		Page	Revision
Date	15/01/2024	1		2/6	

Three Phase Induction Motor - Squirrel Cage

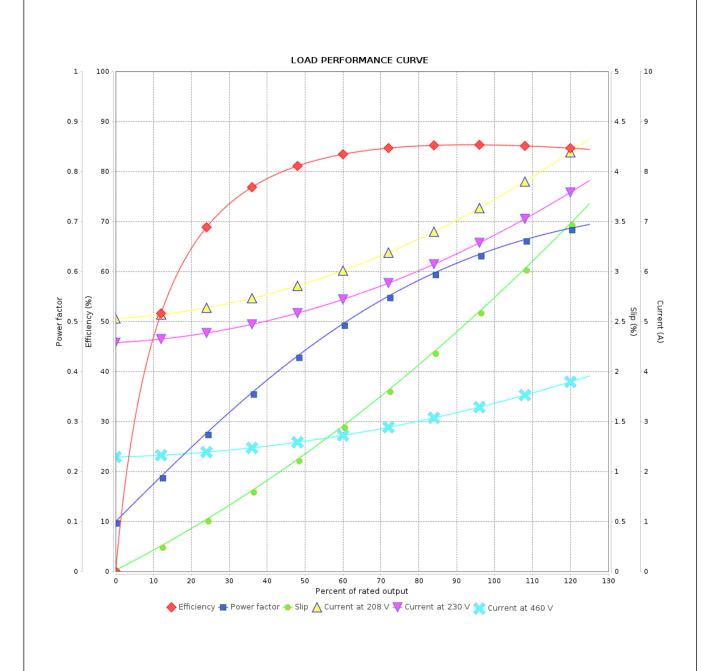


14562090

Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase



Performance	: 230/460	V 60 Hz 8P			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		Duty cycl	n class actor	: 0.0753 kgm : Cont.(S1) : F : 1.25 : 80 K : B	2
Rev.	Chang	es Summary	Performed	Checked	Date

		Changes Cammary	1 ontonnou	Onconou	Date
Performed by					
Checked by				Page	Revision
Date	15/01/2024			3/6	
This do	aumant in avaluative	property of MEC C/A Deprinting is not all	averad verith avet verrittan	authorization of MI	C C/A

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

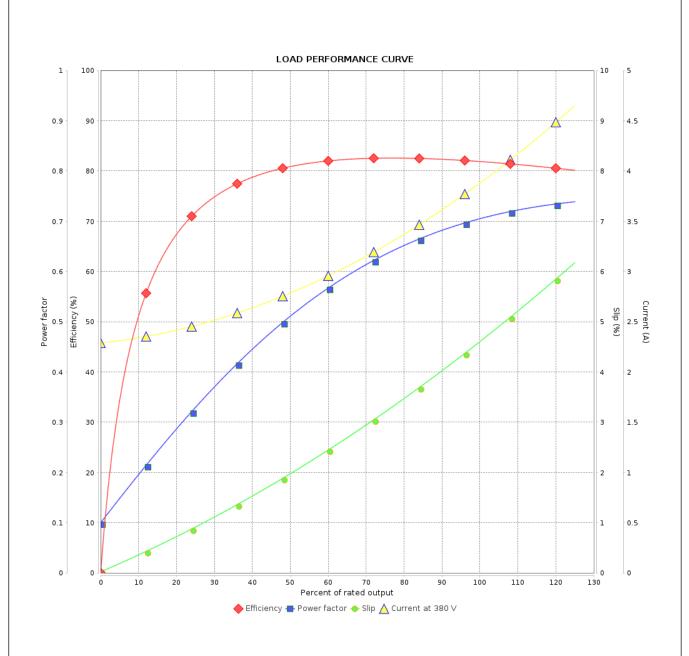
Product code:

14562090

Phase

15/01/2024

Date



Performance	: 380 V 50 Hz 8P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.91 A : 6.0 : 2.03 kgfm : 170 % : 210 % : 715 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.0753 kgm ² : Cont.(S1) : F : 1.00 : 80 K : B	2
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

4/6

Three Phase Induction Motor - Squirrel Cage



14562090

Page

5/6

Revision

Customer :

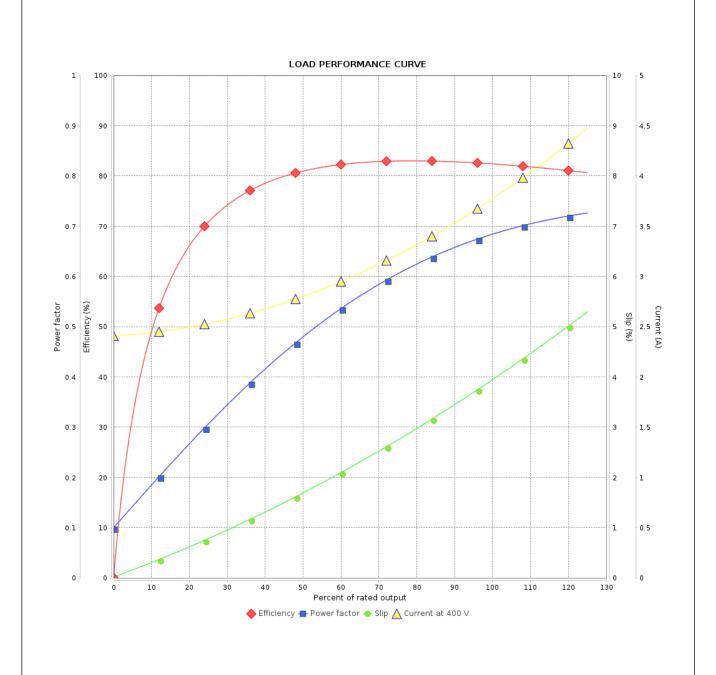
Checked by

Date

15/01/2024

Product line : W22 NEMA Premium Efficiency Three- Product code :

Phase



Performance	: 400 V 50 Hz 8P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 3.80 A : 6.5 : 2.02 kgfm : 210 % : 250 % : 720 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0753 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage



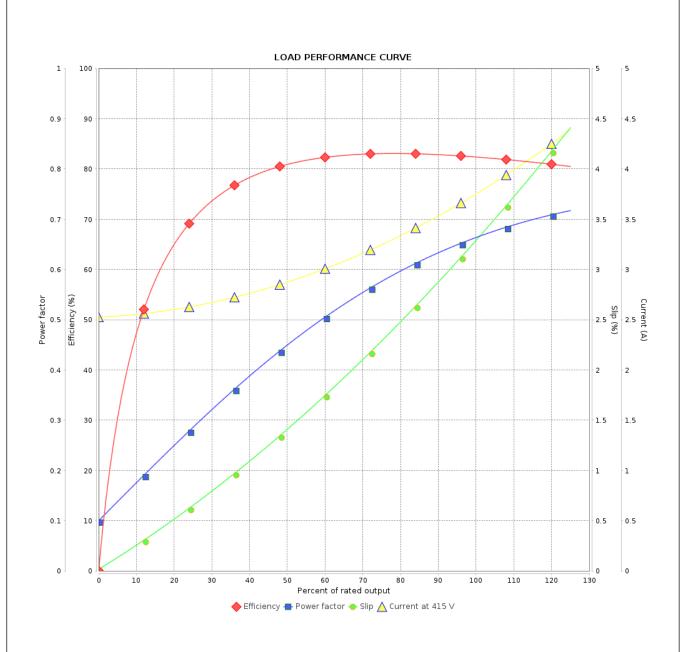
Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

14562090

Phase



Performance	: 4	15 V 50 Hz 8P IE3				
Rated current : 3		.78 A	Moment o	Moment of inertia (J)		2
LRC : 7.2 Duty cycle		ycle : Cont.(S1)				
Rated torque	: 2	.00 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 2	Service factor		: 1.00		
Breakdown torque : 280 % Temperature rise		: 80 K				
Rated speed	: 7:	25 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
		T				
Performed by						
Checked by					Page	Revision
Date	15/01/2024				6/6	