### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12529433

Phase

Frame : 143/5TC Cooling method : IC411 - TEFC

Altitude : 1000 m.a.s.l. Approx. weight³ : 19.7 kg

Protection degree : IP55 Moment of inertia (J) : 0.0055 kgm²

Design : B

Output [HP]		2	2	2	
Poles		4	4	4	
Frequency [Hz]		60	50	50	
Rated voltage [V]		230/460	190/380	220/415	
Rated current [A]		5.44/2.72	6.50/3.25	5.89/3.12	
L. R. Amperes [A]		44.6/22.3	39.0/19.5	39.4/20.9	
LRC [A]		8.2x(Code K)	6.0x(Code H)	6.7x(Code J)	
No load current [A	•	2.80/1.40	2.75/1.37	2.87/1.52	
Rated speed [RPI	<b>/</b> 1]	1745	1415	1425	
Slip [%]		3.06	5.67	5.00	
Rated torque [kgfr		0.832	1.03	1.02	
Locked rotor torqu		270	210	240	
Breakdown torque	[%]	300	240	270	
Service factor			1.00	1.00	
Temperature rise		80 K	105 K	105 K	
Locked rotor time		27s (cold) 15s (hot)	0s (cold) 0s (hot)	0s (cold) 0s (hot)	
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)	
	25%	86.0	87.1	86.0	
Efficiency (%)	50%	85.5	85.4	84.9	
	75%	87.5	84.9	85.2	
	100%	86.5	82.6	83.6	
Power Factor	25%	0.35	0.42	0.38	
	50%	0.60	0.68	0.64	
1 OWEN I ACTOR	75%	0.73	0.80	0.76	
	100%	0.80	0.85	0.83	

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6205 ZZ 6203 ZZ Max. traction : 68 kgf
Sealing : V'Ring Without Max. compression : 88 kgf

Bearing Seal

Lubrication interval : - - Lubricant amount : - Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 6.02A SF 1.00 SFA 6.02A

This revision replaces and cancel the previous one, which must be eliminated.

- (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.

(4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

(1) / 11 100 / 10 01 10					
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/05/2022	1		1/4	

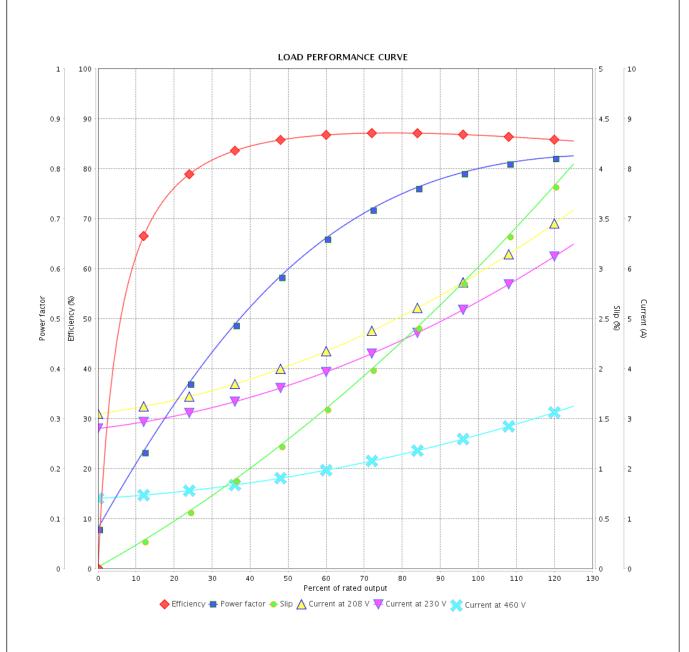
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 12529433



Performance : 230/460 V 60 Hz 4P						
Rated current : 5		.44/2.72 A	Moment of	Moment of inertia (J)		2
LRC : 8.		.2	Duty cycle	Duty cycle		
Locked rotor torque : 2		.832 kgfm	•		: <b>F</b> :	
		70 %				
		Temperature rise		ure rise	: 80 K	
Rated speed	: 1	745 rpm Design		: B		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/05/2022				2/4	

# LOAD PERFORMANCE CURVE

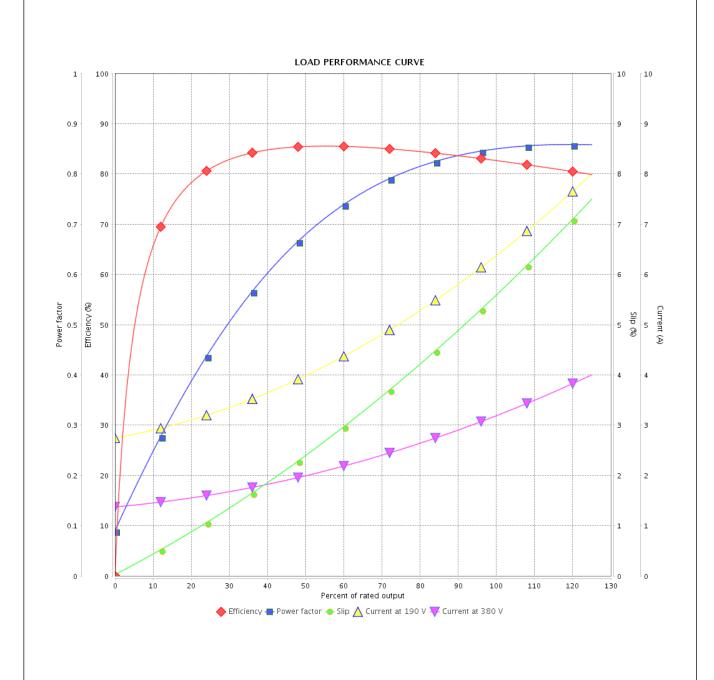
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three- Product code : 12529433

Phase



Performance	: 190/380 V 50 Hz 4P	: 190/380 V 50 Hz 4P					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 6.50/3.25 A : 6.0 : 1.03 kgfm : 210 % : 240 % : 1415 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.0055 kgm² : Cont.(S1) : F : 1.00 : 105 K : B			
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							
Checked by				Page	Revision		

3/4

13/05/2022

Date

# LOAD PERFORMANCE CURVE

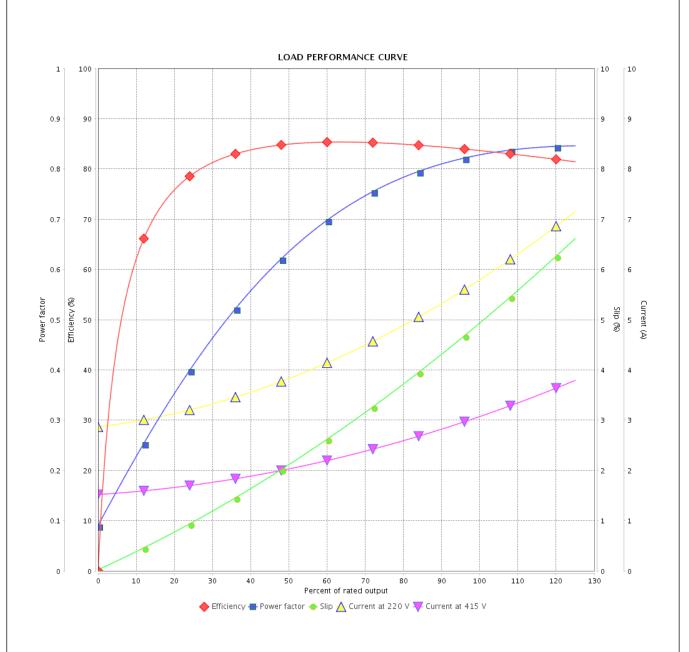
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 12529433

Phase



Performance		: 220/415 V 50 Hz 4P						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	que ::	5.89/3.12 A 6.7 1.02 kgfm 240 % 270 % 1425 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		2		
Rev.	Changes Summary		Performed	Checked	Date			
Performed by Checked by					Page	Revision		

4/4

13/05/2022

Date