### **DATA SHEET**

Frequency [Hz]

Rated voltage [V]

Rated current [A]

#### Three Phase Induction Motor - Squirrel Cage



50

415

1.31

Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780

Frame : 56C Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : 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> : 12.5 kg

 Protection degree
 : IP55
 Moment of inertia (J)
 : 0.0036 kgm²

 Output [HP]
 0.75
 0.75
 0.75

 Poles
 4
 4
 4

60

208-230/460

2.63-2.38/1.19

L. R. Amperes [A]		20.3-18.3/9.16	16.1-13.9/8.05	8.91
LRC [A]		7.7x(Code L)	6.1x(Code H)	6.8x(Code K)
No load current [A]		1.42-1.64/0.822	1.62-1.40/0.809	0.950
Rated speed [RPI	Л]	1760	1450	1460
Slip [%]		2.22	3.33	2.67
Rated torque [kgfr	n]	0.309	0.375	0.373
Locked rotor torqu	ie [%]	240	180	220
Breakdown torque	: [%]	360	250	310
Service factor			1.15	1.15
Temperature rise		80 K	80 K	80 K
Locked rotor time		28s (cold) 16s (hot)	27s (cold) 15s (hot)	23s (cold) 13s (hot)
Noise level <sup>2</sup>		52.0 dB(A)	49.0 dB(A)	49.0 dB(A)
	25%			
Efficiency (%)	50%	75.5	77.9	75.1
Lindicity (70)	75%	80.0	80.3	79.2
	100%	81.5	80.0	80.2
	25%			
Power Factor	50%	0.49	0.56	0.49
	75%	0.62	0.70	0.63
	100%	0.71	0.79	0.73

50

190-220/380

2.64-2.28/1.32

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

Bearing type : 6203 ZZ 6202 ZZ Max. traction : 31 kgf Sealing : V'Ring Without Max. compression : 43 kgf

Bearing Seal

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

Notes

USABLE @208V SF 1.00

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)/14/100/001/10					
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	17/05/2022			1 / 4	

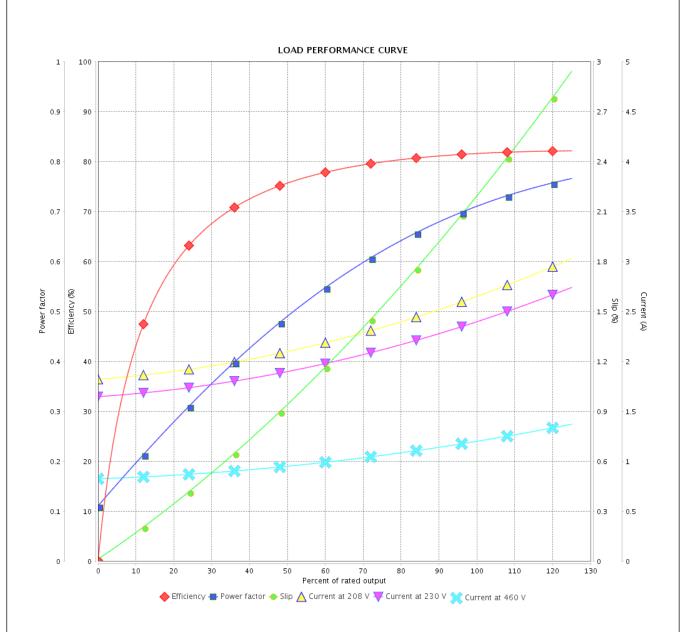
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780



					1	
Performance		: 208-230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 2.63-2.38/1.19 A : 7.7 : 0.309 kgfm : 240 % : 360 % : 1760 rpm	Moment of Duty cycle Insulation Service fa Temperate	class ector	: 0.0036 kgm : Cont.(S1) : F : : 80 K	2
Rev.		Changes Summary		Performed	Checked	Date

Rev.		Changes Summary		Performed	Checked	Date
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Checked by					Page	Revision
Date	17/05/2022				2/4	

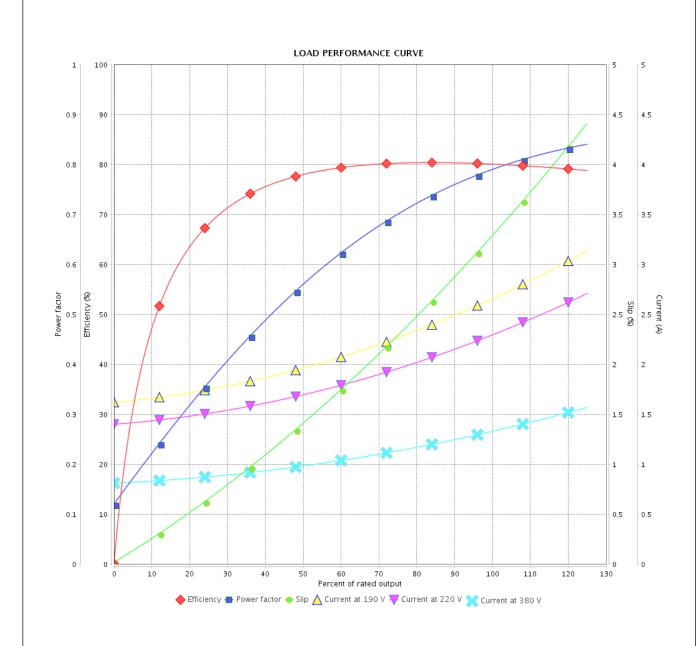
## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780



Performance : 190-220/380 V 50 Hz 4P : 2.64-2.28/1.32 A Rated current Moment of inertia (J) : 0.0036 kgm<sup>2</sup> **LRC** Duty cycle : Cont.(S1) : 6.1 : 0.375 kgfm Insulation class : F Rated torque Locked rotor torque : 180 % Service factor : 1.15 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1450 rpm

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	17/05/2022			3/4	

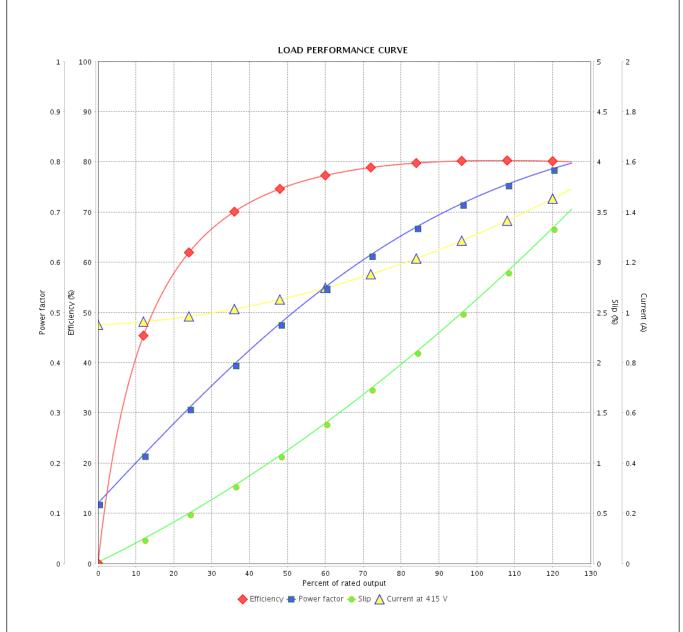
## LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Premium Efficiency Three-Phase Product code : 15311780



Performance : 415 V 50 Hz 4P : 1.31 A : 0.0036 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.8 : 0.373 kgfm Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 1460 rpm

Rev. Changes Summary Performed Checked Date

Performed by
Checked by
Date 17/05/2022 Page Revision

