### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13827079

Frame : W56C Cooling method : IC01 - ODP Insulation class : F 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 Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 7.0 kg Moment of inertia (J) : 0.0013 kgm<sup>2</sup> Output [HP] 0.5 0.5 0.5 Poles 4 4 Frequency [Hz] 60 50 50 Rated voltage [V] 220/415 208-230/460 190/380 Rated current [A] 2.10-1.90/0.948 2.04/1.02 2.04/1.08 L. R. Amperes [A] 11.3-10.2/5.12 8.57/4.28 8.96/4.75 LRC [A] 5.4x(Code K) 4.2x(Code G) 4.4x(Code H) No load current [A] 1.41-1.64/0.820 1.58/0.788 1.99/1.06 Rated speed [RPM] 1730 1385 1410 Slip [%] 3.89 7.67 6.00 Rated torque [kgfm] 0.210 0.262 0.257 Locked rotor torque [%] 229 170 200 Breakdown torque [%] 280 190 229 Service factor 1.00 1.00 80 K Temperature rise 105 K 105 K 0s (cold) 0s (hot) 0s (cold) 0s (hot) Locked rotor time 27s (cold) 15s (hot) Noise level<sup>2</sup> 50.0 dB(A) 49.0 dB(A) 49.0 dB(A) 25% 50% 52.0 59.5 61.0 Efficiency (%) 75% 66.0 64.0 61.0 100% 70.0 67.0 65.0 25% 50% 0.47 0.57 0.49 Power Factor 75% 0.60 0.71 0.62 100% 0.70 0.82 0.73

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

Bearing type : 6203 ZZ 6202 ZZ Max. traction : 15 kgf
Sealing : Without Without Max. compression : 22 kgf

Bearing Seal 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)7111100700110	an load.					
Rev.	Changes Summary		•	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	17/05/2022				1/4	

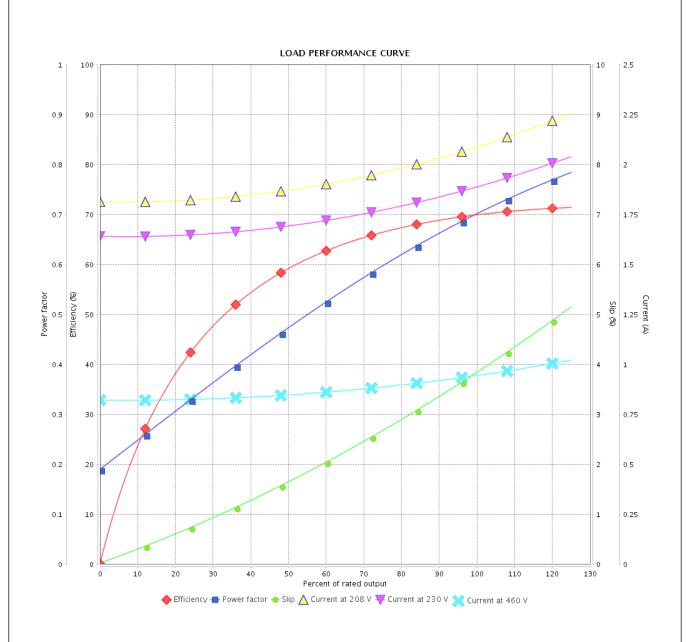
# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



_	
Customer	

Product line : Standard Efficiency Three-Phase Product code : 13827079



 Performance
 : 208-230/460 V 60 Hz 4P

 Rated current
 : 2.10-1.90/0.948 A
 Moment of inertia (J)
 : 0.0013 kgm²

 LRC
 : 5.4
 Duty cycle
 : Cont.(S1)

Rated torque : 0.210 kgfm Insulation class : F
Locked rotor torque : 229 % Service factor :

Presidown torque : 280 % Temperature rice : 80 K

Breakdown torque : 280 % Temperature rise : 80 K
Rated speed : 1730 rpm

 Rev.
 Changes Summary
 Performed
 Checked
 Date

 Performed by
 Page
 Revision

 Date
 17/05/2022
 2 / 4

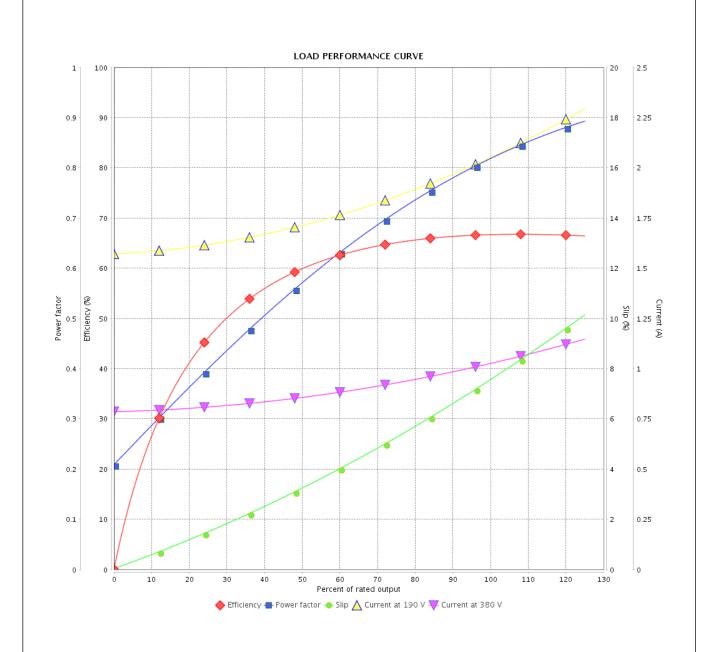
# LOAD PERFORMANCE CURVE

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : Standard Efficiency Three-Phase Product code : 13827079



Performance : 190/380 V 50 Hz 4P : 2.04/1.02 A Rated current Moment of inertia (J) : 0.0013 kgm<sup>2</sup> **LRC** : 4.2 Duty cycle : Cont.(S1) : 0.262 kgfm Insulation class : F Rated torque Locked rotor torque : 170 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 1385 rpm

Rev.		Changes Summary	Performed	Checked	Date
11011		- Crianges Cammary	T GHOIHIGG	Onconod	Bato
Performed by					
Checked by				Page	Revision
Date	17/05/2022			3 / 4	

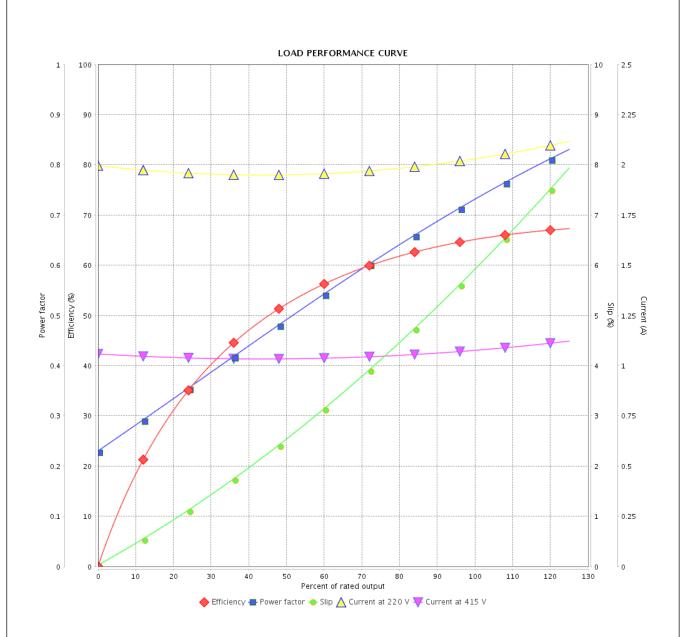
# LOAD PERFORMANCE CURVE

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Standard Efficiency Three-Phase Product code : 13827079



Performance : 220/415 V 50 Hz 4P : 2.04/1.08 A : 0.0013 kgm<sup>2</sup> Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 4.4 Insulation class Rated torque : 0.257 kgfm : F Locked rotor torque : 200 % Service factor : 1.00

Breakdown torque : 200 % Service factor : 1.00

Breakdown torque : 229 % Temperature rise : 105 K

Rated speed : 1410 rpm

Rev.		Changes Summary		Performed	Checked	Date
D ( 11		I				
Performed by						
Checked by					Page	Revision
Date	17/05/2022				4/4	

