### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-Product code: 15280587

Cooling method : IC01 - ODP Frame : 444/5T

Insulation class Mounting : F : 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

Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 615 kg Protection degree : 1.77 kgm² : IP23 Moment of inertia (J)

Design : B Output [HP] 150 125 125 125 Poles 4 4 4 4 50 Frequency [Hz] 60 50 50 Rated voltage [V] 230/460 380 400 415 Rated current [A] 340/170 169 162 158 L. R. Amperes [A] 2210/1105 1183 1199 1138 LRC [A] 6.5x(Code G) 7.0x(Code G) 7.4x(Code H) 7.2x(Code H) No load current [A] 116/58.0 57.7 62.5 66.5 Rated speed [RPM] 1784 1485 1485 1485 Slip [%] 0.89 1.00 1.00 1.00 Rated torque [kgfm] 61.0 61.1 61.1 61.1 Locked rotor torque [%] 200 190 220 240 Breakdown torque [%] 240 240 270 290 Service factor 1.25 1.00 1.00 1.00 Temperature rise 80 K 80 K 80 K 80 K Locked rotor time 39s (cold) 22s (hot) 37s (cold) 21s (hot) 36s (cold) 20s (hot) 39s (cold) 22s (hot) Noise level<sup>2</sup> 78.0 dB(A) 25% 50% 95.4 94.9 94.9 95.1 Efficiency (%) 75% 95.8 95.3 95.3 95.3 100% 95.8 95.3 95.3 95.3 25% 50% 0.74 0.74 0.70 0.68 Power Factor 75% 0.82 0.82 0.80 0.78

0.85

0.85 Drive end Non drive end Foundation loads

Bearing type NU-319 C3 6314 C3 Max. traction : 1242 kgf Sealing Without Without Max. compression : 1857 kgf

Bearing Seal Bearing Seal

Lubrication interval 18825 h 20000 h 45 g Lubricant amount 27 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 376A SF 1.15 SFA 432A

100%

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.

0.84

0.83

Rev.		Changes Summary	Performed	Checked	Date	
Performed by						
Checked by				Page	Revision	
Date	15/01/2024			1/5		

### Three Phase Induction Motor - Squirrel Cage



Customer :

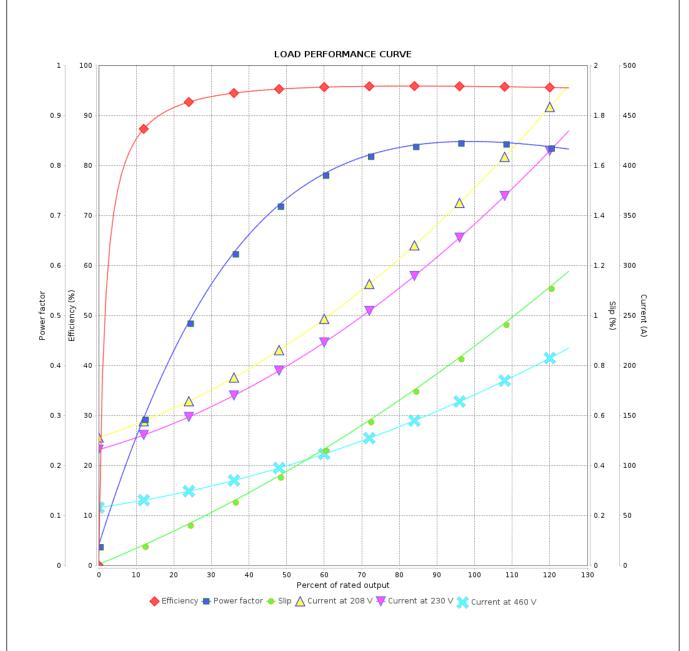
Product line : W40 NEMA Premium Efficiency Three-

NAO NEWA FIEITIUM EMCIENCY THEE-

Product code:

15280587

2/5



Performance	: 230/460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 340/170 A : 6.5 : 61.0 kgfm : 200 % : 240 % : 1784 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.77 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	: Cont.(S1) : F : 1.25 : 80 K			
Rev.	Changes Summary	Performed	Checked	Date			
Performed by							
Checked by			Page	Revision			

15/01/2024

Date

### Three Phase Induction Motor - Squirrel Cage

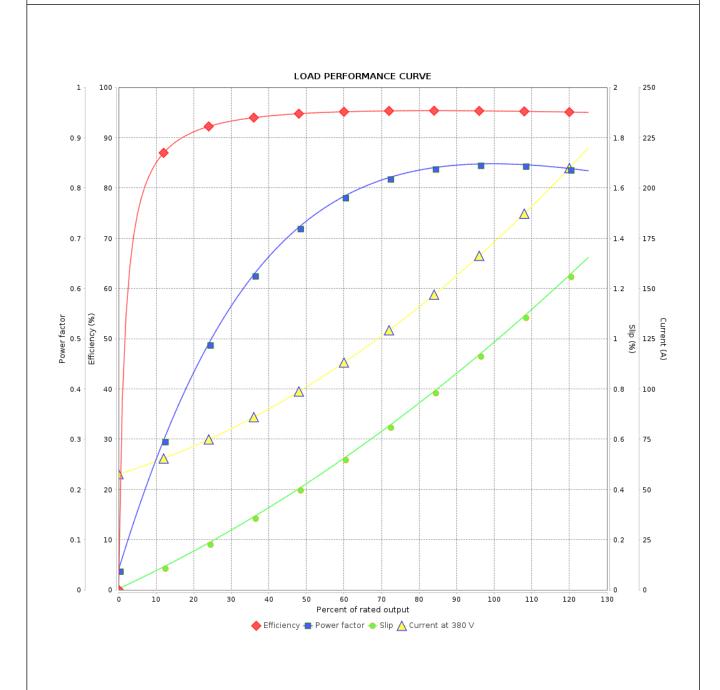


15280587

Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code :

Phase



D . (	·	000 \ / 50 \ \ . 4D \ \ F0						
Performance	<u>:</u>	: 380 V 50 Hz 4P IE3						
Rated current	:	: 169 A Mome		f inertia (J)	: 1.77 kgm²			
LRC	:	7.0	Duty cycle	Duty cycle				
Rated torque	:	: 190 % Serv		class	: F			
Locked rotor torque	e :			ctor	: 1.00			
Breakdown torque	:			Temperature rise Design				
Rated speed	: 1485 rpm		Design					
Rev.		Changes Summary		Performed	Checked	Date		
Performed by								
Checked by					Page	Revision		
Date	15/01/2024				3/5			

#### Three Phase Induction Motor - Squirrel Cage



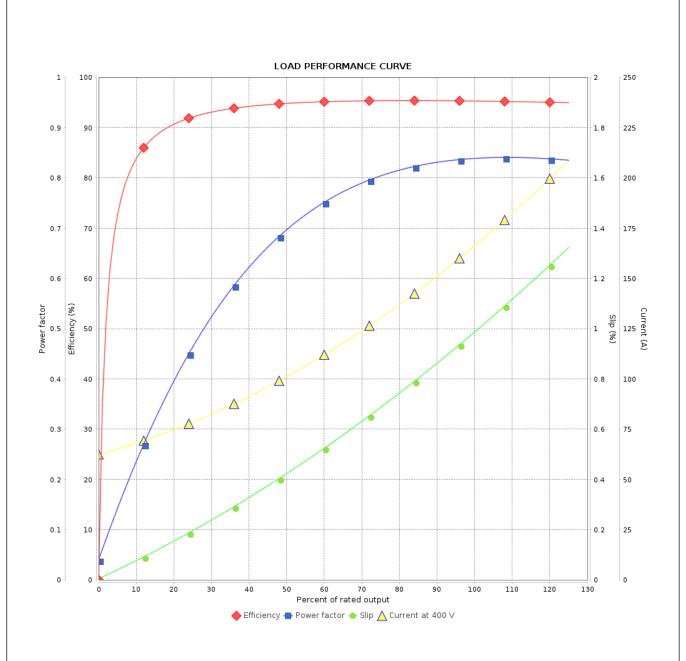
Customer :

Product line : W40 NEMA Premium Efficiency Three-

Product code:

15280587

Phase



Performance : 400 V 50 Hz 4P IE3 : 162 A Rated current Moment of inertia (J) : 1.77 kgm<sup>2</sup> **LRC** : 7.4 Duty cycle : Cont.(S1) : 61.1 kgfm Insulation class Rated torque : F Locked rotor torque : 220 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1485 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by Checked by Revision Page 4/5 Date 15/01/2024

### Three Phase Induction Motor - Squirrel Cage

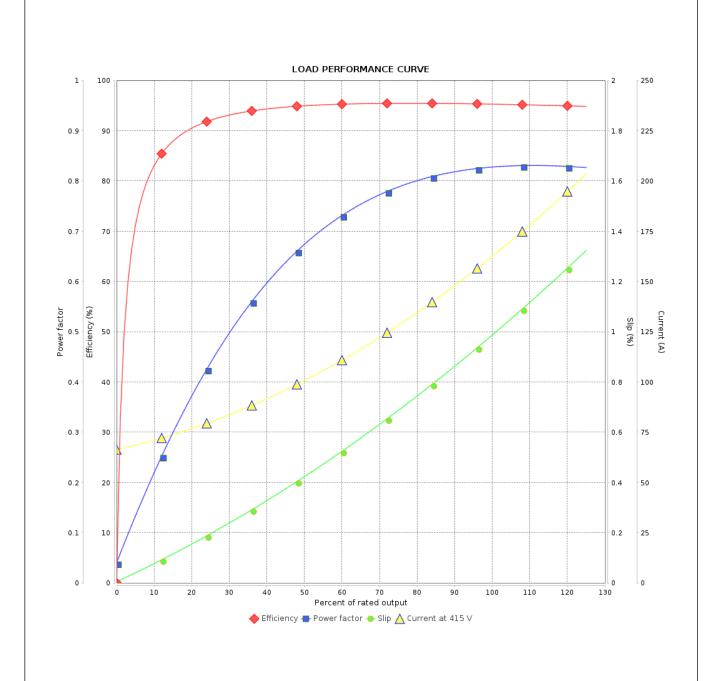


15280587

Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code :

Phase



Performance	: 4	15 V 50 Hz 4P IE3				
Rated current	: 1	58 A Moment of inertia (J)		f inertia (J)	: 1.77 kgm²	
LRC	: 7	7.2	Duty cycle		: Cont.(S1)	
Rated torque	: 6	31.1 kgfm	Insulation class		: F	
Locked rotor torqu	e : 2	240 %	Service fa	Service factor		
Breakdown torque	: 2	290 %	Temperatu	Temperature rise		
Rated speed	: 1485 rpm		Design	Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	15/01/2024				5/5	