## **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Premium

Product code: 11889522

: IC411 - TEFC

: F-1

Efficiency Three-Phase

: 404/5T Frame Insulation class : F

Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l.

Rotation<sup>1</sup> : Both (CW and CCW) Starting method : Direct On Line Approx. weight<sup>3</sup> : 550 kg : 1.69 kgm² Moment of inertia (J)

Cooling method

Mounting

Protection degree : IP55 Design

Design		: B			
Output [HP]		75	60	60	60
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		174/87.0	86.6	84.3	81.8
L. R. Amperes [A]		1340/670	624	666	687
LRC [A]		7.7x(Code J)	7.2x(Code H)	7.9x(Code J)	8.4x(Code K)
No load current [A	.]	62.5/31.3	31.0	33.6	36.0
Rated speed [RPI	Л]	1185	985	987	988
Slip [%]		1.25	1.50	1.30	1.20
	Rated torque [kgfm]		44.2	44.1	44.1
Locked rotor torque [%]		250	229	260	280
Breakdown torque [%]		260	250	280	300
Service factor	Service factor		1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)			
Noise level <sup>2</sup>		65.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
	25%				
Efficiency (%)	50%	94.1	94.0	93.6	93.6
Efficiency (70)	75%	95.0	94.0	94.5	94.5
	100%	94.5	94.0	94.0	94.5
	25%				
Power Factor	50%	0.72	0.72	0.68	0.64
1 OWCI I actor	75%	0.81	0.81	0.78	0.76
	100%	0.84	0.84	0.82	0.81

Drive end

Non drive end NU-217 C3 6314 C3

Bearing type Sealing Lubrication interval

Lubricant amount

Lubricant type

Oil Seal Lip Seal 10272 h 14267 h

21 g 27 g Mobil Polyrex EM

Foundation loads Max. traction : 1026 kgf Max. compression : 1576 kgf

Notes

USABLE @208V 192A SF 1.00 SFA 192A

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.

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			1/6	

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Customer	
Customer	

#### Thermal protection

ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			2/6	

### Three Phase Induction Motor - Squirrel Cage

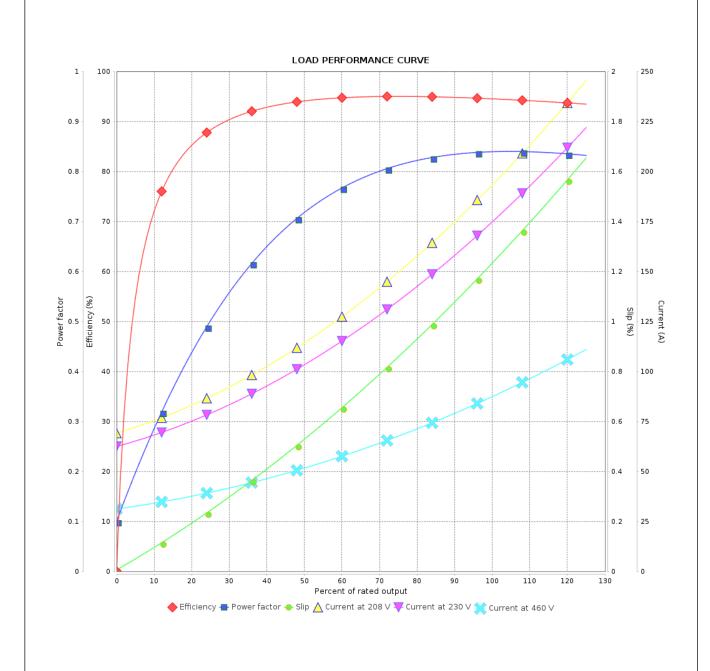


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Performance	: 2	30/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 7 : 4 uue : 2 ie : 2	74/87.0 A 7.7 5.9 kgfm 50 % 60 % 185 rpm	Moment of Duty cycle Insulation Service fa Temperation	class actor	: 1.69 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summar		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024	1			3/6	

### Three Phase Induction Motor - Squirrel Cage

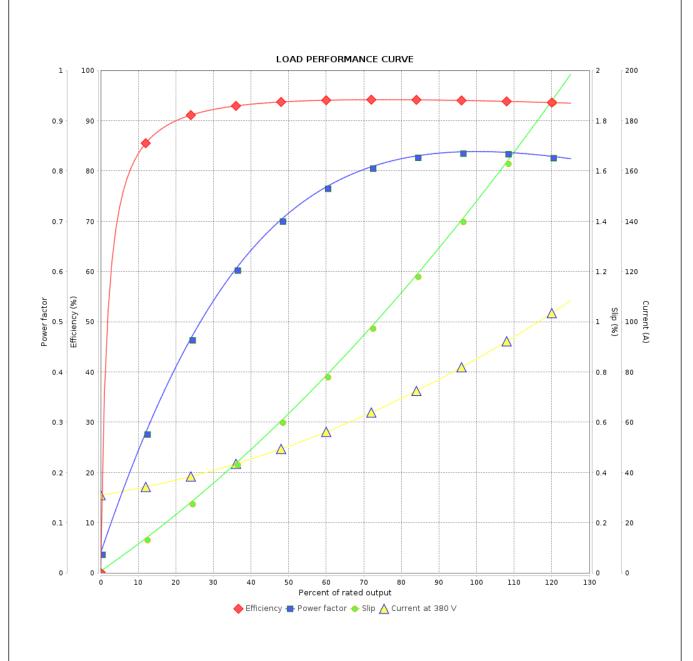


Customer :

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Efficiency Three-Phase

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Performance	: 380 V 50 Hz 6P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 86.6 A : 7.2 : 44.2 kgfm : 229 % : 250 % : 985 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.69 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

4/6

13/01/2024

Date

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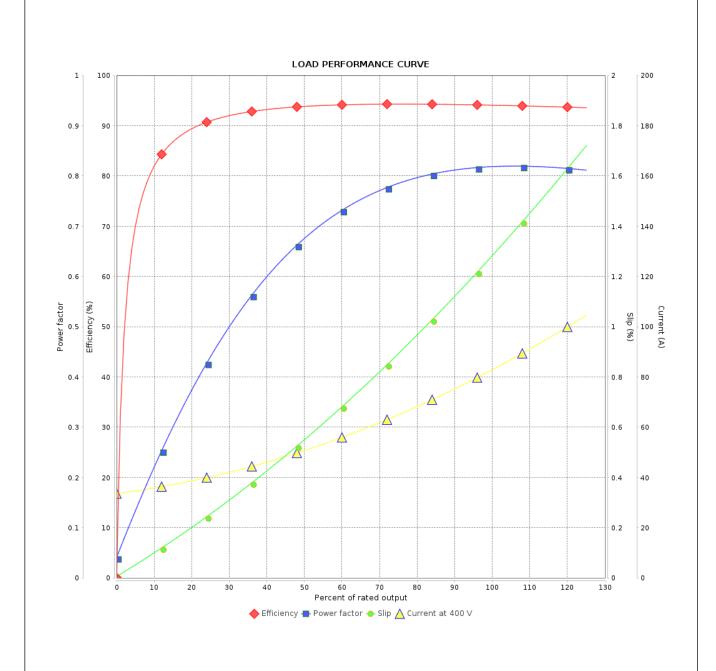


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Efficiency Three-Phase

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Rated current : 84.3 A Moment of inertia (J) : 1.69 kgm LRC : 7.9 Duty cycle : Cont.(S1 Rated torque : 44.1 kgfm Insulation class : F Locked rotor torque : 260 % Service factor : 1.00 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 987 rpm Design : B	Performance	: 400 V 50 Hz 6P IE3			
	LRC Rated torque Locked rotor tord Breakdown torque	: 7.9 : 44.1 kgfm jue : 260 % ie : 280 %	Duty cycle Insulation class Service factor Temperature rise	: C : F : 1.	cont.(S1) .00 0 K
Rev. Changes Summary Performed Checked	Rev.	Changes Summary	Per	formed Ch	ecked Date

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Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				5/6	

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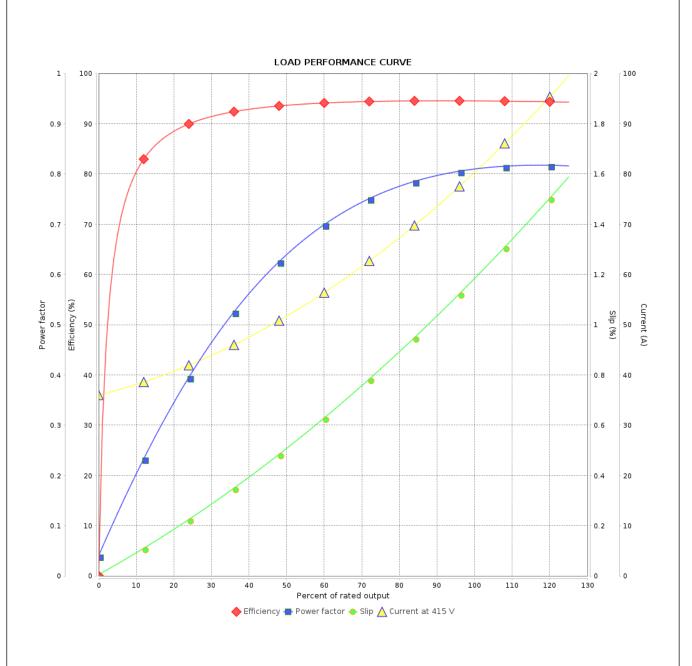


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Performance	: 415 V 50 Hz 6P IE3		<del></del>	
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 81.8 A : 8.4 : 44.1 kgfm : 280 % : 300 % : 988 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.69 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

6/6

13/01/2024

Date