### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



11439852

Customer

Product line : W21 Explosion Proof NEMA Product code:

Premium Efficiency Three-Phase

: 404/5T Frame Cooling method : IC411 - TEFC

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 : 1000 m.a.s.l. Approx. weight<sup>3</sup> Altitude : 566 kg : 1.69 kgm<sup>2</sup> Protection degree : IP55 Moment of inertia (J)

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 [RPM	1]	1185	985	987	988
Slip [%]	Slip [%]		1.50	1.30	1.20
	Rated torque [kgfm]		44.2	44.1	44.1
Locked rotor torque [%]		250	229	260	280
Breakdown torque	Breakdown torque [%]		250	280	300
Service factor		1.15	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
I OWEI FACIOI	75%	0.81	0.81	0.78	0.76
	100%	0.84	0.84	0.82	0.81

Non drive end Foundation loads Drive end

Bearing type 6217 C3 6314 C3 Max. traction : 1020 kgf Sealing Oil Seal Lip Seal Max. compression : 1582 kgf Lubrication interval 13507 h 14267 h

Lubricant amount 21 g 27 g Mobil Polyrex EM Lubricant type

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.

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Customer	•
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#### Thermal protection

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

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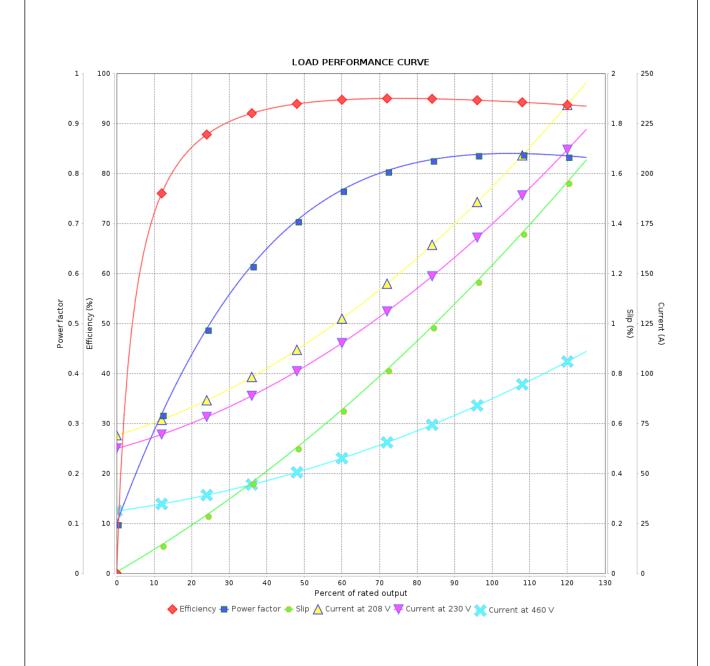
Customer :

Checked by

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance		: 230/460 V 60 H	z 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 174/87.0 A : 7.7 : 45.9 kgfm : 250 % : 260 % : 1185 rpm	Duty cy Insulati Service	on class	: 1.69 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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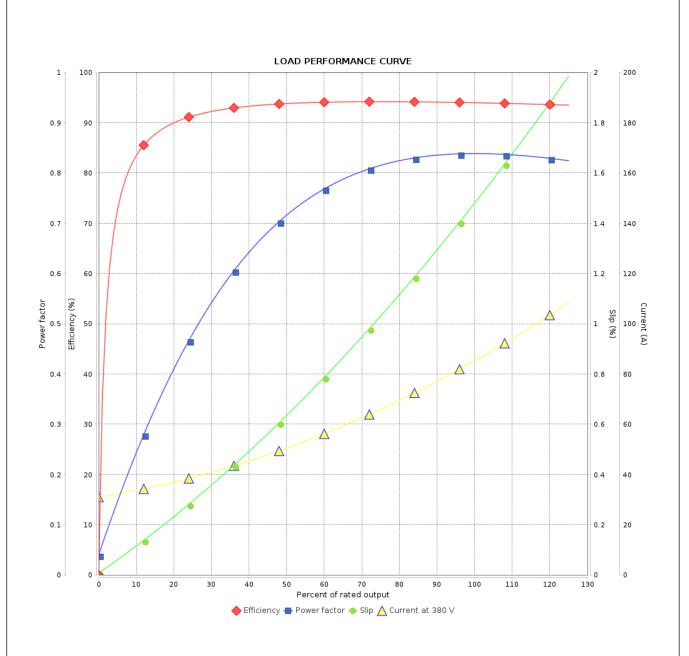


Customer :

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Performance		: 380 V 50 Hz 6P IE	:3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 86.6 A : 7.2 : 44.2 kgfm : 229 % : 250 % : 985 rpm	Duty cycl Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise		
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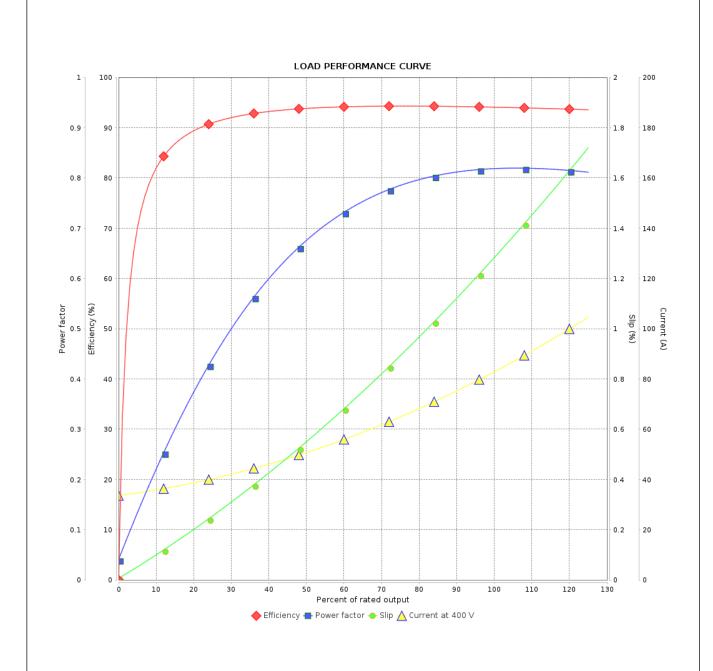


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Rated speed	: 987 rpm	Design	: B	
Breakdown torqu	e : 280 %	Temperature rise	: 80 K	
Locked rotor torq	ue : 260 %	Service factor	: 1.00	
Rated torque	: 44.1 kgfm	Insulation class	Insulation class : F	
LRC	: 7.9	Duty cycle	Duty cycle : Cont.(S1)	
Rated current	: 84.3 A	Moment of inertia (J)	: 1.69 kgm²	
Performance	: 400 V 50 Hz 6P II	E3		

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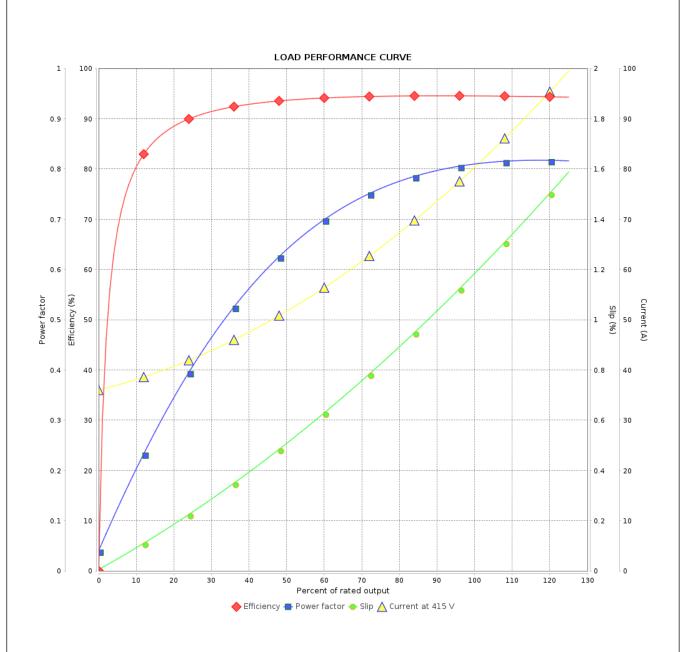


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Performance	: 4	15 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 8. : 4 <sup>4</sup> jue : 28 ie : 30	1.8 A 4 4.1 kgfm 30 % 00 % 38 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
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