DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 14217591

Premium Efficiency Three-Phase

: 213/5TC Frame Cooling method : IC411 - TEFC

Insulation class Mounting : F : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Approx. weight³ Altitude : 1000 m.a.s.l. : 94.1 kg Protection degree : IP55 Moment of inertia (J) : 0.0582 kgm²

Design		: B			()	· ·
Output [HP]		7.5		7.5	7.5	7.5
Poles		4	4		4	4
Frequency [Hz]		60		50	50	50
Rated voltage [V]		230/460		380	400	415
Rated current [A]		18.8/9.41		11.2	10.7	10.6
L. R. Amperes [A]		126/63.0		61.6	68.5	72.1
LRC [A]		6.7x(Code H)	5.5	x(Code F)	6.4x(Code H)	6.8x(Code H)
No load current [A]	8.00/4.00		4.10	4.40	4.60
Rated speed [RPN	1]	1765		1460	1460	1465
Slip [%]		1.94		2.67	2.67	2.33
Rated torque [kgfm]		3.08		3.75	3.73	3.73
Locked rotor torque [%]		240		170	180	210
Breakdown torque [%]		280		200	280	270
Service factor	Service factor			1.00	1.00	1.00
Temperature rise		80 K		80 K	80 K	80 K
Locked rotor time		21s (cold) 12s (hot)	21s (co	old) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²		58.0 dB(A)	56	6.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%					
Efficiency (%)	50%	90.2		88.5	88.5	88.5
Efficiency (70)	75%	91.0		89.5	89.5	89.5
	100%	91.7		89.5	90.2	90.2
	25%					
Power Factor	50%	0.60		0.66	0.63	0.61
Power Factor	75%	0.73		0.77	0.75	0.73
	100%	0.80		0.83	0.82	0.80

Non drive end Foundation loads Drive end

Bearing type 6308 2RS 6207 2RS Max. traction : 137 kgf Sealing Oil Seal Lip Seal Max. compression : 234 kgf

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 20.8A SF 1.15 SFA 23.9A

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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Thermal protection

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

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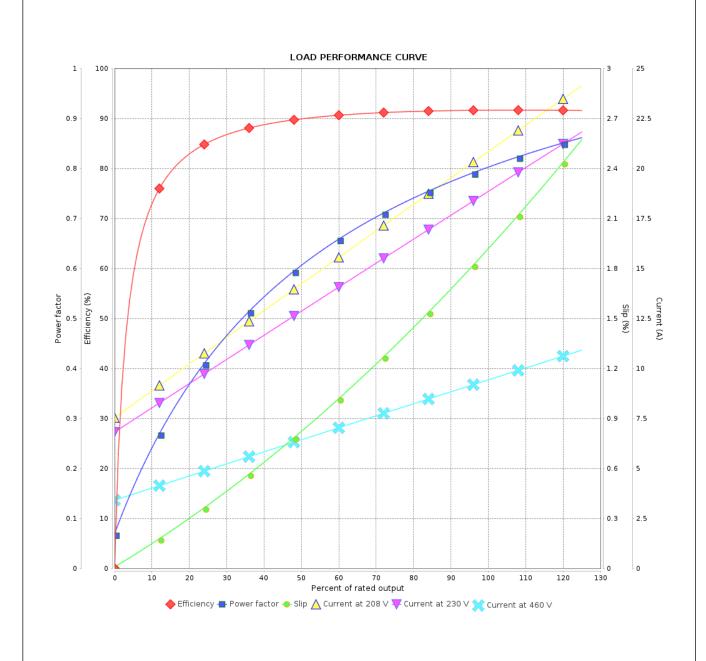


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Performance	: 23	30/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 6. : 3. ue : 2	: 18.8/9.41 A : 6.7 : 3.08 kgfm : 240 % : 280 % : 1765 rpm		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rated speed	: 1					
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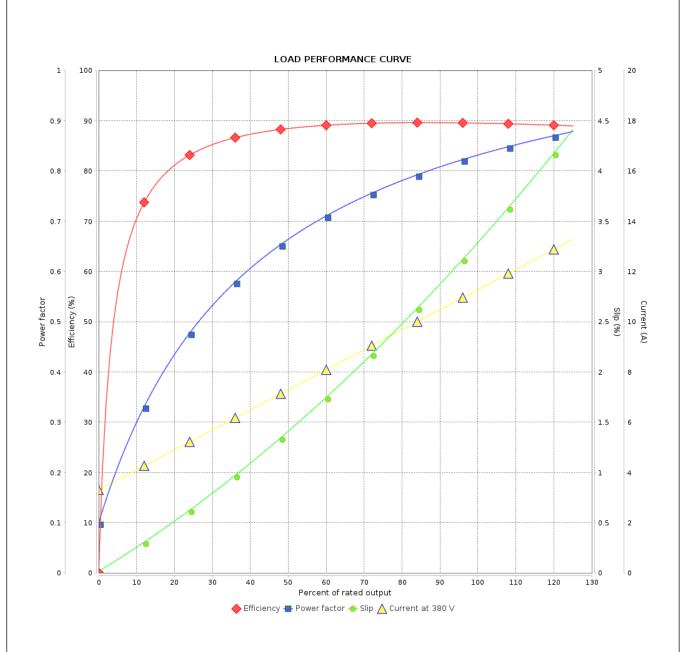


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Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 11.2 A : 5.5 : 3.75 kgfm : 170 % : 200 % : 1460 rpm	Moment of Duty cycle Insulation of Service fact Temperatur Design	class ctor	: 0.0582 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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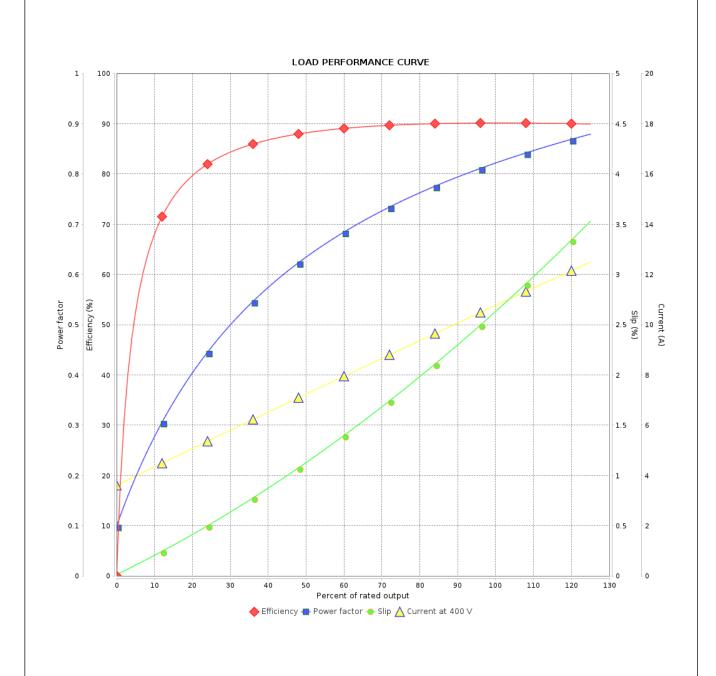


Customer :

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Performance		: 400 V 50 Hz 4F	P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 6.4 Duty cycle ed torque : 3.73 kgfm Insulation control cont		class ctor	: 0.0582 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	2		
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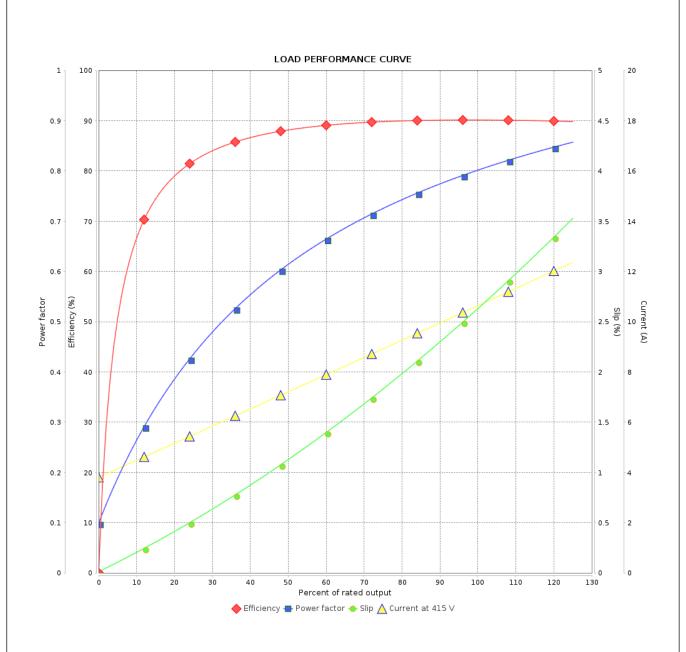
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28/10/2024

Product line : W21 Explosion Proof NEMA

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Performance : 415 V 50 Hz 4P IE3 : 10.6 A : 0.0582 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.8 Insulation class Rated torque : 3.73 kgfm : F Locked rotor torque : 210 % Service factor : 1.00 Breakdown torque : 270 % Temperature rise : 80 K Rated speed : 1465 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by