DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 11889522

Premium Efficiency Three-Phase

: 404/5T 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

: 1000 m.a.s.l. Approx. weight³ Altitude : 550 kg : 1.69 kgm² 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 [RPI	/ []	1185	985	987	988
Slip [%]		1.25	1.50	1.30	1.20
Rated torque [kgfr	Rated torque [kgfm]		44.2	44.1	44.1
	Locked rotor torque [%]		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 ²		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
Lilicierity (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 NU-217 C3 6314 C3 Max. traction : 1026 kgf Sealing Oil Seal Lip Seal Max. compression : 1576 kgf Lubrication interval 10272 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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Three Phase Induction Motor - Squirrel Cage

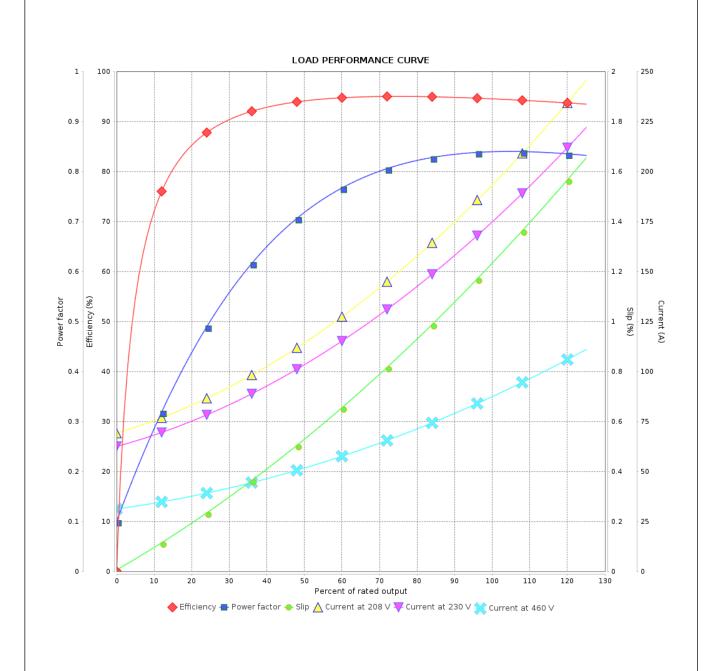


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance : 230/460 V 60 Hz 6P : 174/87.0 A Rated current Moment of inertia (J) : 1.69 kgm² **LRC** : 7.7 Duty cycle : Cont.(S1) : 45.9 kgfm Insulation class : F Rated torque Locked rotor torque : 250 % Service factor : 1.15 Breakdown torque : 260 % Temperature rise : 80 K Rated speed · 1185 rnm Design

Rateu speeu	. 1	165 10111	Design		. Б	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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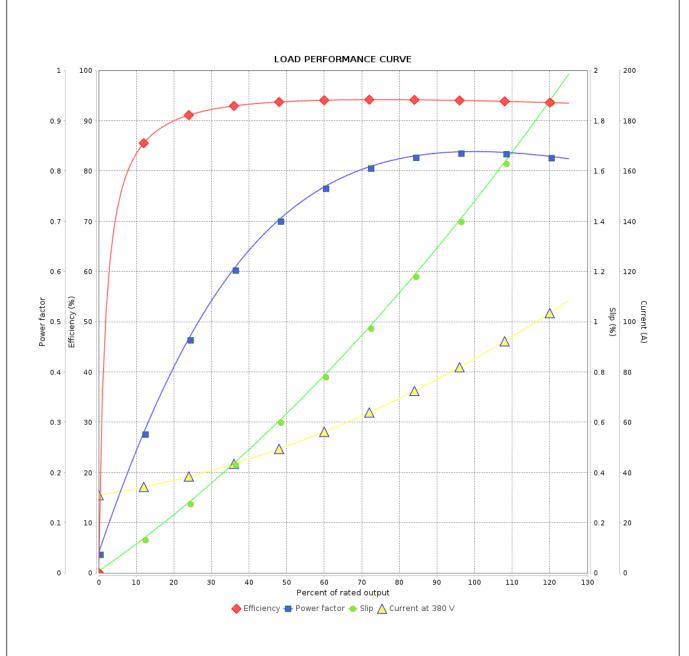
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 11889522



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	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 1.69 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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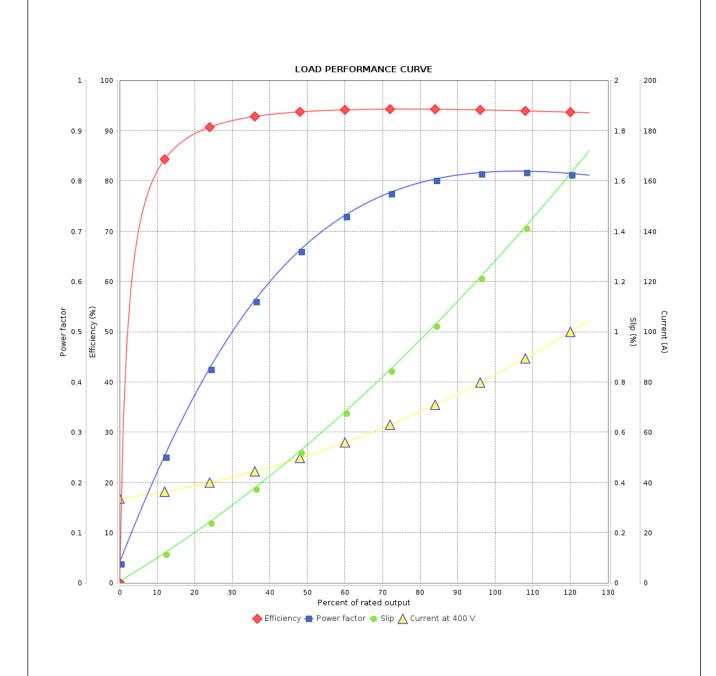


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 11889522



	·						
Performance		: 400 V 50 Hz 6P IE3					
Rated current		: 84.3 A	Mor	ment of	inertia (J)	: 1.69 kgm²	
LRC		: 7.9	Dut	y cycle		: Cont.(S1)	
Rated torque		: 44.1 kgfm	Insu	ulation	class	: F	
Locked rotor tord	que	: 260 %	Ser	vice fac	ctor	: 1.00	
Breakdown torqu	ue	: 280 %	Ten	nperatu	re rise	: 80 K	
Rated speed		: 987 rpm	Des	sign		: B	
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rated speed	. 50	77 IPIII	Design		. Б	
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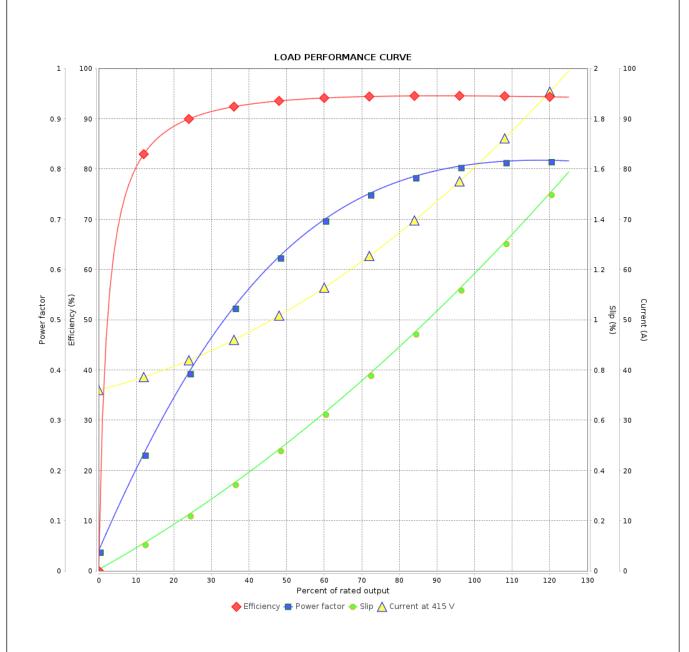


Customer :

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Premium Efficiency Three-Phase

Product code: 11889522



Performance	: 415 V 50 Hz 6P IE3			
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	
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