DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 11746365

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 : 562 kg : 1.11 kgm² Protection degree : IP55 Moment of inertia (J)

Design	_	: B				
Output [HP]		100	75	75	75	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		226/113	103	100	98.7	
L. R. Amperes [A]		1627/814	773	840	898	
LRC [A]		7.2x(Code H)	7.5x(Code H)	8.4x(Code J)	9.1x(Code K)	
No load current [A	.]	78.0/39.0	39.0	42.0	45.0	
Rated speed [RPI	Л]	1780	1480	1485	1485	
Slip [%]		1.11	1.33	1.00	1.00	
Rated torque [kgfm]		40.8	36.8	36.7	36.7	
Locked rotor torque [%]		270	270	300	320	
Breakdown torque [%]		280	310	360	370	
Service factor	Service factor		1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		23s (cold) 13s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	
Noise level ²		75.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)	
	25%					
Efficiency (%)	50%	94.5	94.0	93.6	93.6	
Linderity (70)	75%	95.0	94.5	94.5	94.5	
	100%	95.4	94.5	94.5	94.5	
	25%					
Power Factor 50%		0.72	0.69	0.65	0.62	
1 OWELL ACTOR	75%	0.82	0.80	0.77	0.75	
	100%	0.87	0.86	0.84	0.82	

Non drive end Foundation loads Drive end

Bearing type NU-217 C3 6314 C3 Max. traction : 1058 kgf Sealing Oil Seal Lip Seal Max. compression : 1611 kgf Lubrication interval 6536 h 9789 h

Lubricant amount 27 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 250A SF 1.00 SFA 250A

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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Three Phase Induction Motor - Squirrel Cage

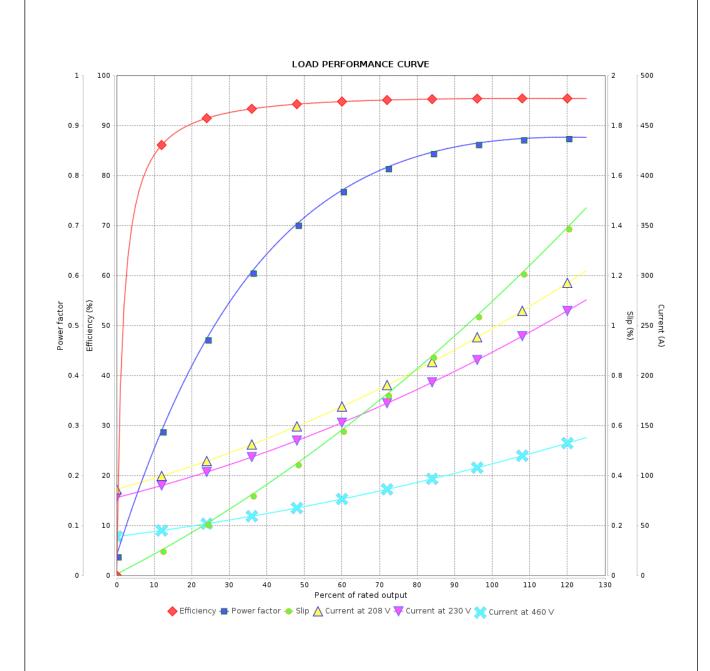


Customer :

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Performance : 230/460 V 60 Hz 4P : 226/113 A Rated current Moment of inertia (J) : 1.11 kgm² **LRC** : 7.2 Duty cycle : Cont.(S1) : 40.8 kgfm : F Rated torque Insulation class Locked rotor torque : 270 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K

Rated speed	: 17	780 rpm	Design		: В	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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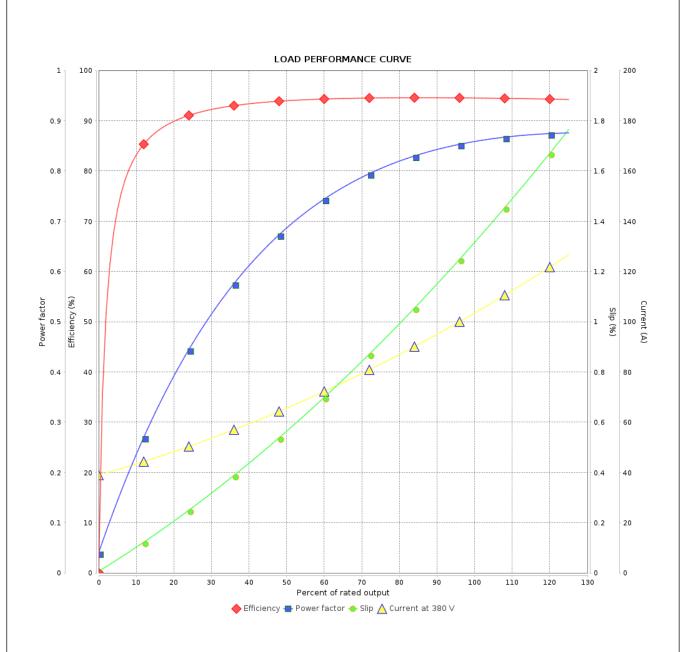
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Product line : W21 Explosion Proof NEMA

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Performance	: 380 V 50 Hz 4P IE	2			
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 103 A : 7.5 : 36.8 kgfm : 270 % : 310 % : 1480 rpm	Moment Duty cycl Insulation Service f Tempera Design	n class actor	: 1.11 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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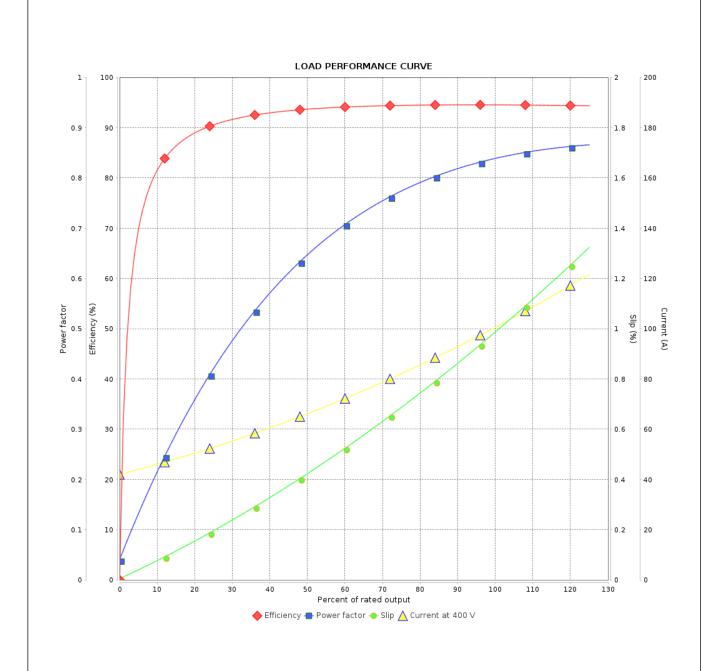
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Performance		: 400 V 50 Hz 4P	IE2			
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 100 A : 8.4 : 36.7 kgfm : 300 % : 360 % : 1485 rpm	Duty cy Insulati Service	on class factor rature rise	: 1.11 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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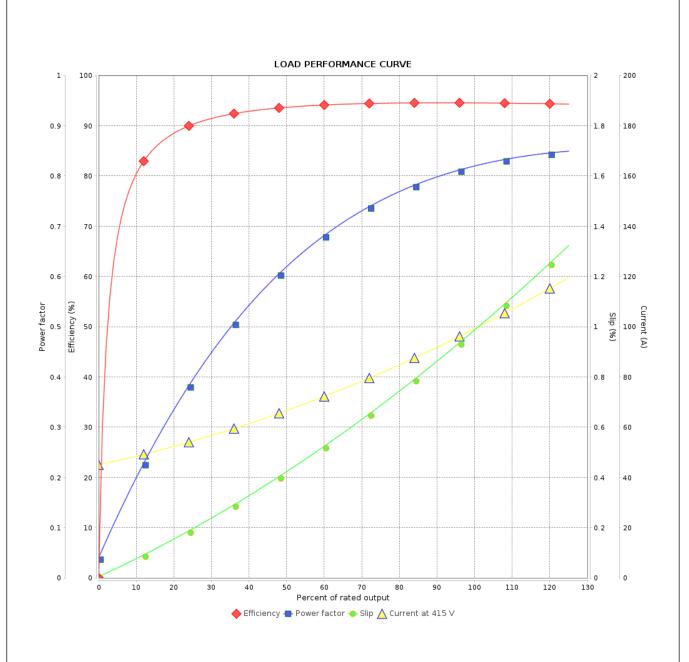


Customer :

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Performance	: 415 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 98.7 A : 9.1 : 36.7 kgfm : 320 % : 370 % : 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 1.11 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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