DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Product code : 11705683

Premium Efficiency Three-Phase

Frame : 444/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 902 kg

Protection degree : IP55 Moment of inertia (J) : 2.41 kgm²			kgm²	
	: B			
	125	100	100	100
	4	4	4	4
	60	50	50	50
	230/460	380	400	415
	278/139	142	136	132
	1890/945	852	952	977
	6.8x(Code G)	6.0x(Code G)	7.0x(Code H)	7.4x(Code H)
]	90.0/45.0	44.5	47.2	49.3
1]	1785	1485	1487	1488
	0.83	1.00	0.87	0.80
n]	50.8	48.9	48.8	48.8
Locked rotor torque [%]		190	210	229
Breakdown torque [%]		210	240	260
	1.15	1.15 1.00 1.00 1.00		1.00
	80 K	80 K	80 K	80 K
	75s (cold) 42s (hot)	84s (cold) 47s (hot)	77s (cold) 43s (hot)	73s (cold) 41s (hot)
	76.0 dB(A)	72.0 dB(A)	72.0 dB(A)	72.0 dB(A)
25%				
50%	94.3	94.5	94.5	94.5
75%	95.2	94.5	95.0	95.0
100%	95.4	94.5	94.5	95.0
25%				
Service factor	0.75	0.73	0.71	
75%	0.82	0.83	0.81	0.80
100%	0.85	0.85	0.84	0.83
	25% 50% 75% 100% 25% 50% 75%	: B 125 4 60 230/460 278/139 1890/945 6.8x(Code G) 90.0/45.0 1] 1785 0.83 n] 50.8 e [%] 200 [%] 220 1.15 80 K 75s (cold) 42s (hot) 76.0 dB(A) 25% 50% 94.3 75% 95.2 100% 95.4 25% 50% 0.75 75% 0.82	: B 125 100 4 4 60 50 230/460 380 278/139 142 1890/945 852 6.8x(Code G) 6.0x(Code G) 90.0/45.0 44.5 1] 1785 1485 0.83 1.00 n] 50.8 48.9 e [%] 200 190 [%] 220 210 1.15 1.00 80 K 80 K 75s (cold) 42s (hot) 84s (cold) 47s (hot) 76.0 dB(A) 72.0 dB(A) 25% 50% 94.3 94.5 75% 95.2 94.5 100% 95.4 94.5 25% 50% 0.75 0.82 0.83	125

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : NU-219 C3 6316 C3
Sealing : Oil Seal Lip Seal
Lubrication interval : 5526 h 8569 h

Max. traction : 659 kgf
Max. compression : 1559 kgf

Lubricant amount : 28 g 34 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 314A SF 1.00 SFA 314A

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	
Customer	

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

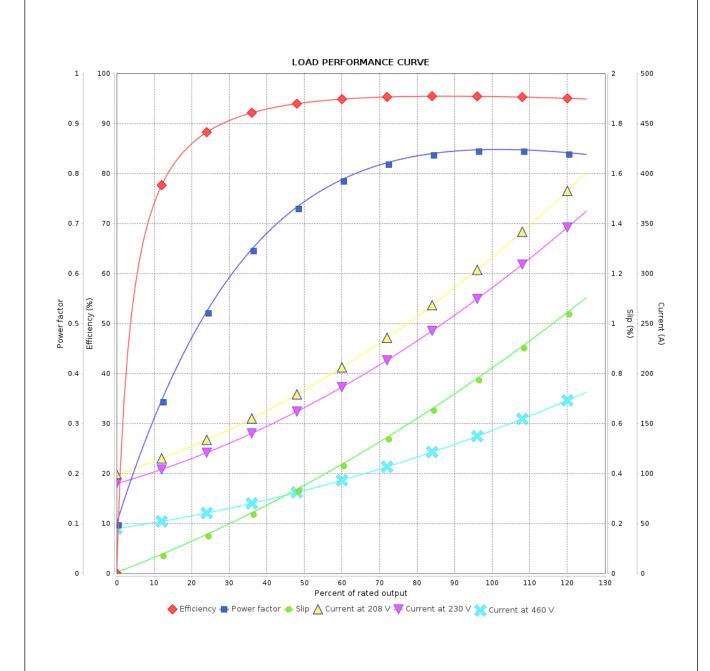


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

Product code: 11705683



Performance : 230/460 V 60 Hz 4P : 278/139 A Rated current Moment of inertia (J) : 2.41 kgm² **LRC** : 6.8 Duty cycle : Cont.(S1) : 50.8 kgfm Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 220 % Temperature rise : 80 K Rated speed · 1785 rnm Design

Rateu speeu	. 17	65 Ipili	Design		. Б	
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Three Phase Induction Motor - Squirrel Cage



Customer :

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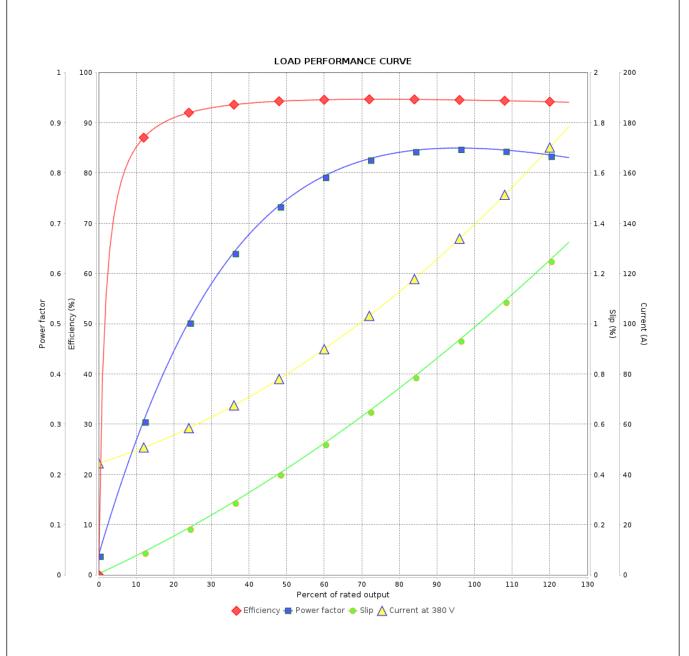
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance	: 3	80 V 50 Hz 4P IE2				
LRC : 6.0 Duty c Rated torque : 48.9 kgfm Insulat Locked rotor torque : 190 % Service Breakdown torque : 210 % Temper		Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 2.41 kgm² : Cont.(S1) : F : 1.00 : 80 K : B		
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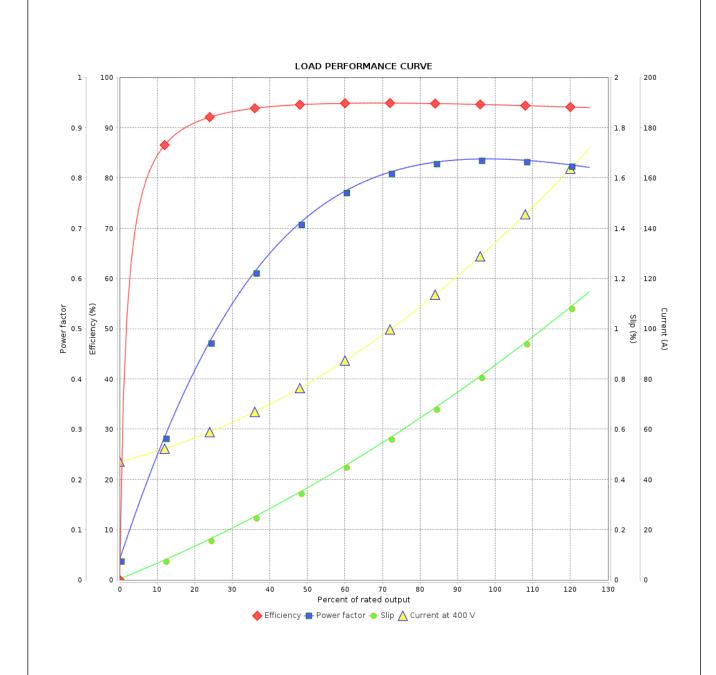
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Product line : W21 Explosion Proof NEMA

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Performance	: 400 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 136 A : 7.0 : 48.8 kgfm : 210 % : 240 % : 1487 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 2.41 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage



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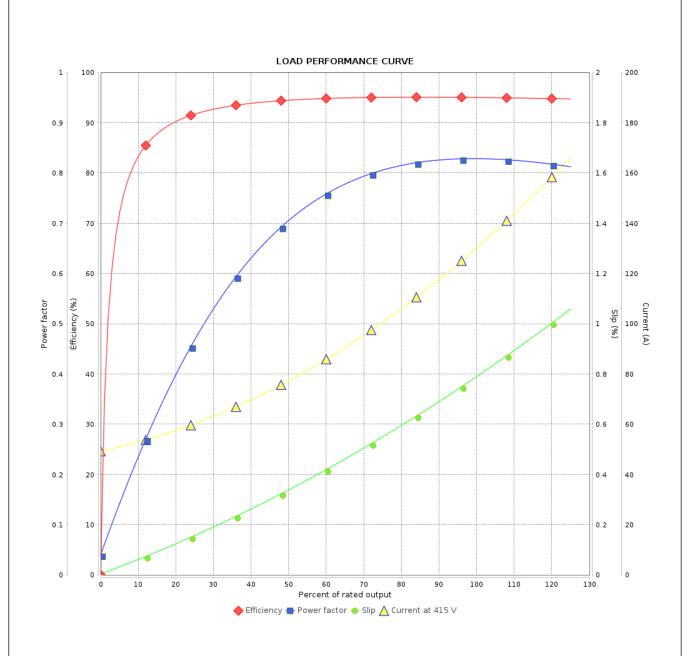
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Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance	: 4	15 V 50 Hz 4P IE3				
LRC : 7.4 Duty of Rated torque : 48.8 kgfm Insulat Locked rotor torque : 229 % Servic Breakdown torque : 260 % Temper		Moment of Duty cycle Insulation Service fa Temperation	class ctor	: 2.41 kgm² : Cont.(S1) : F : 1.00 : 80 K : B		
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