DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 14945679

Premium Efficiency Three-Phase

: 143/5TC Cooling method Frame : IC411 - TEFC

Insulation class : F Mounting : 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. : 34.1 kg Protection degree : IP55 Moment of inertia (J) : 0.0067 kgm²

Design	_	: B		1 1 1 1 1 6 6 6 50 50 50 380 400 415		
Output [HP]		1	1	1	1	
Poles		6	6	6	6	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		3.26/1.63	1.91	1.86	1.85	
L. R. Amperes [A]		20.2/10.1	9.17	9.67	10.2	
LRC [A]		6.2x(Code K)	4.8x(Code G)	5.2x(Code H)	5.5x(Code J)	
No load current [A]	2.00/1.00	0.950	1.05	1.15	
Rated speed [RPI	/ []	1150	930	940	950	
Slip [%]		4.17	7.00	6.00	5.00	
Rated torque [kgfr		0.631	0.780	0.772	0.764	
Locked rotor torqu		260	180	210	240	
Breakdown torque [%]		280	200	229	250	
Service factor		1.15	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		50s (cold) 28s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	
Noise level ²		50.0 dB(A)	45.0 dB(A)	45.0 dB(A)	45.0 dB(A)	
	25%					
Efficiency (%)	50%	77.0	77.0		74.0	
Lilicierity (70)	75%	82.0	78.0	78.0	78.0	
	100%	82.5	80 K 80 K 36s (cold) 20s (hot) 36s (cold) 20s (hot) 45.0 dB(A) 45.0 dB(A)	78.5		
	25%					
Service factor Temperature rise Locked rotor time	50%	0.51	0.58	0.54	0.50	
I OWEI FACIOI	75%	0.63	0.70	0.67	0.64	
	100%	0.70	0.76	0.74	0.72	

Drive end Non drive end Foundation loads

Bearing type 6205 2RS 6204 2RS Max. traction : 36 kgf Sealing Oil Seal Lip Seal Max. compression : 72 kgf

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

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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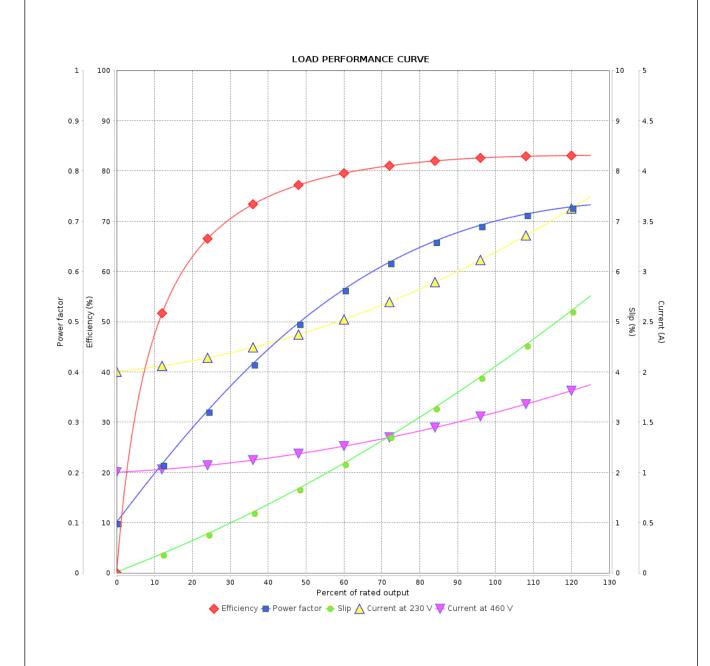


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Performance : 230/460 V 60 Hz 6P : 3.26/1.63 A Rated current Moment of inertia (J) : 0.0067 kgm² **LRC** : 6.2 Duty cycle : Cont.(S1) : F Rated torque : 0.631 kgfm Insulation class Locked rotor torque : 260 % Service factor : 1.15 Breakdown torque : 280 % Temperature rise : 80 K Rated speed : 1150 rpm Design : B

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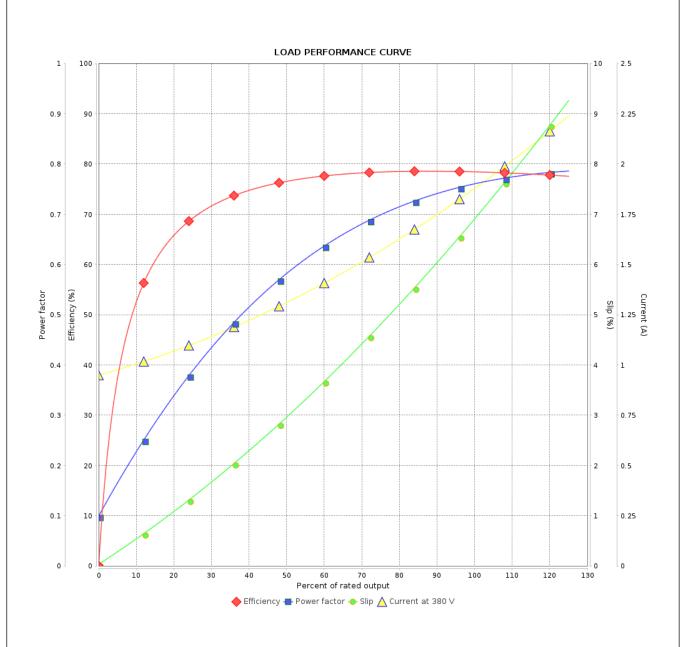
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Performance	: 3	80 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 4 : 0 : 1 : 2	.91 A .8 .780 kgfm 80 % 00 % 30 rpm	Moment of Duty cycle Insulation Service fa Temperate Design	class ctor	: 0.0067 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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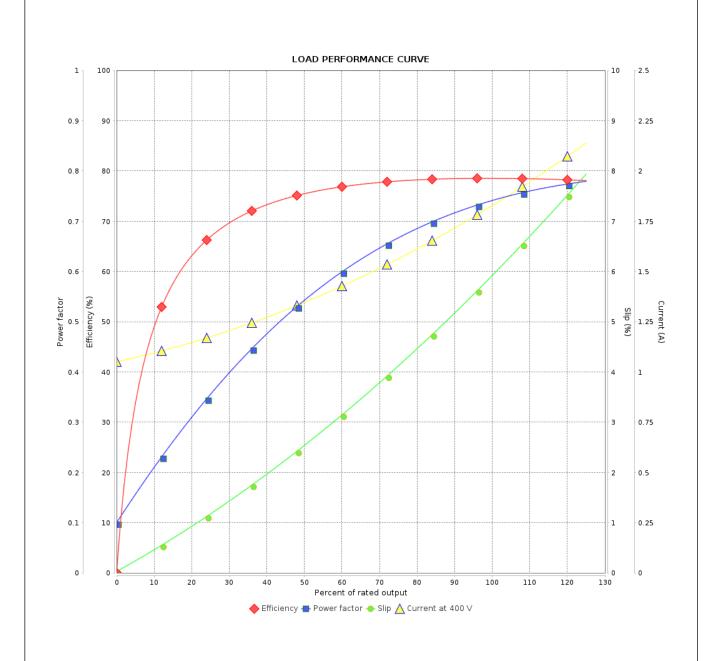


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Performance	: 4	400 V 50 Hz 6P IE2				
Rated current : 1.8		1.86 A	Moment o	Moment of inertia (J)		2
LRC : 5.:		5.2	Duty cycle	;	: Cont.(S1)	
Rated torque	: (0.772 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : :	210 %	Service factor		: 1.00	
Breakdown torque : 2		229 %	Temperati	Temperature rise		
Rated speed	: 9	940 rpm	Design		: B	
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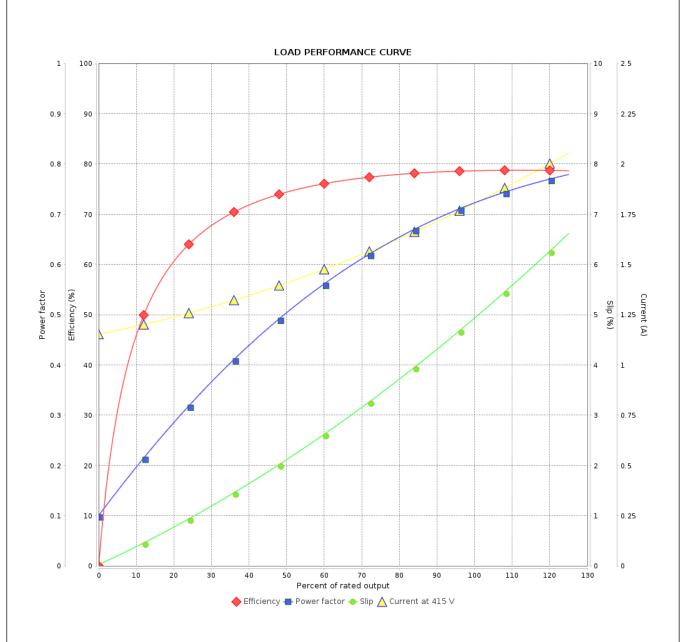
Date

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Product line : W21 Explosion Proof NEMA

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Product code: 14945679



Performance : 415 V 50 Hz 6P IE2 : 1.85 A : 0.0067 kgm² Rated current Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 5.5 : 0.764 kgfm Insulation class Rated torque : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 950 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by