DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W21 Explosion Proof NEMA Product code: 14296383

Premium Efficiency Three-Phase

: 143/5TC Frame Cooling method : 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

Altitude : 1000 m.a.s.l. Approx. weight³ : 33.4 kg Protection degree : 0.0023 kgm² : IP55 Moment of inertia (J)

Protection degree	Ե	. 1600	Montentonine	Montent of menta (3) . 0.0023 kgm					
Design		: B							
Output [HP]		2	2	2 2					
Poles		2	2	2	2				
Frequency [Hz]		60	50	50	50				
Rated voltage [V]		230/460	380	400	415				
Rated current [A]		5.38/2.69	3.25	3.09	3.05				
L. R. Amperes [A]		49.5/24.7	22.8	23.2	24.4				
LRC [A]		9.2x(Code L)	7.0x(Code J)	7.5x(Code K)	8.0x(Code K)				
No load current [A]]	2.40/1.20	1.10	1.20	1.30				
Rated speed [RPM	1]	3495	2860	2880	2890				
Slip [%]		2.92	4.67	4.00	3.67				
Rated torque [kgfm]		0.416	0.508	0.506	0.503				
Locked rotor torque [%]		370	270	310	340				
Breakdown torque [%]		420	290	330	360				
Service factor		1.15	1.00	1.00	1.00				
Temperature rise		80 K	80 K	80 K	80 K				
Locked rotor time	_ocked rotor time		37s (cold) 21s (hot)	37s (cold) 21s (hot)	37s (cold) 21s (hot)				
Noise level ²		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)				
	25%	78.4	81.1	82.1	81.0				
Efficiency (%)	50%	80.0	81.5	1.00 1.00 1.00 80 K 80 K 80 K s (cold) 21s (hot) 37s (cold) 21s (hot) 37s (cold) 21s (hot) 62.0 dB(A) 62.0 dB(A) 62.0 dB(A) 81.1 82.1 81.0 81.5 82.5 81.5 82.5 84.5 84.5	81.5				
Liliciency (70)	75%	84.0	82.5	84.5	84.5				
	100%	85.5	82.5	84.5	84.5				
	25%	0.41	0.47	0.43	0.39				
Power Factor	50%	0.64	0.70	0.66	0.62				
1 OWELL ACTOL	75%	0.76	0.81	0.78	0.75				
	100%	0.82	0.85	0.83	0.81				

Drive end Non drive end Foundation loads

Bearing type 6205 2RS 6204 2RS Max. traction : 34 kgf Sealing Oil Seal Lip Seal Max. compression : 68 kgf

Lubrication interval Lubricant amount Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 5.95A SF 1.15 SFA 6.84A

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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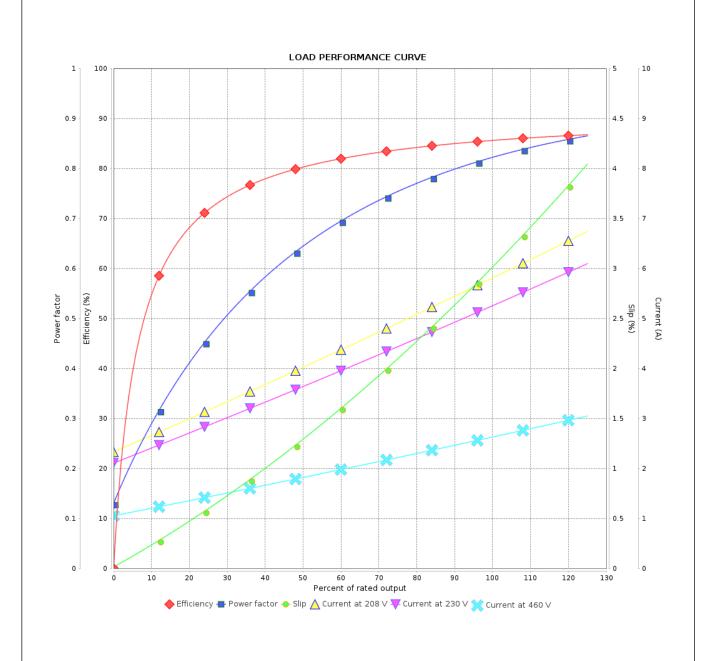


Customer :

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 5.38/2.69 A : 9.2 : 0.416 kgfm : 370 % : 420 % : 3495 rpm	Moment of ine Duty cycle Insulation clas Service factor Temperature r Design	s	: 0.0023 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
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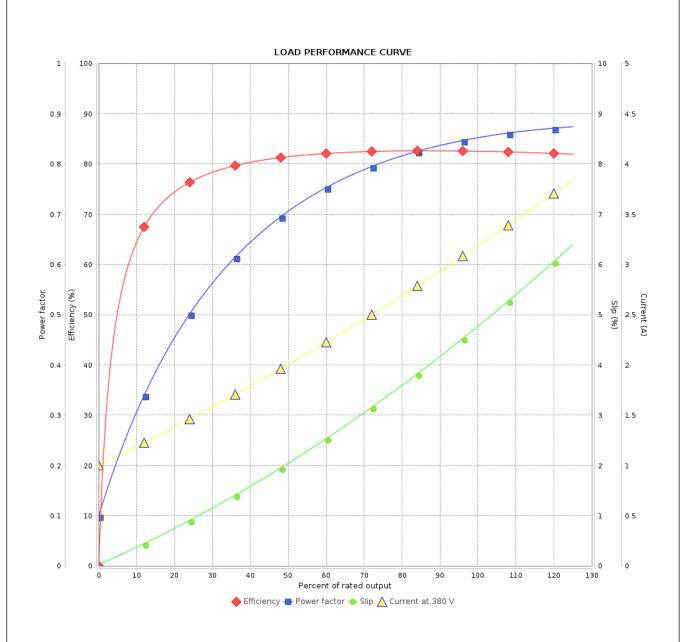


Customer :

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Performance : 380 V 50 Hz 2P IE2 : 0.0023 kgm² Rated current : 3.25 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 7.0 : 0.508 kgfm Insulation class Rated torque : F Locked rotor torque : 270 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 2860 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

Three Phase Induction Motor - Squirrel Cage

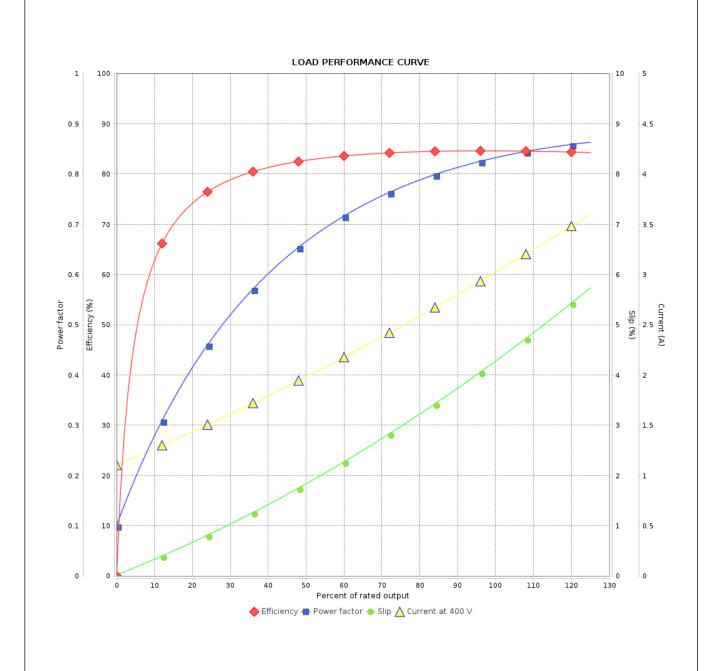


Customer :

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Performance		: 400 V 50 Hz 2P IE3				
Rated current		: 3.09 A	Moment of inertia (J)		: 0.0023 kgm²	
LRC		: 7.5	Duty cycle		: Cont.(S1)	
Rated torque		: 0.506 kgfm	Insulation class		: F	
Locked rotor torque		: 310 %	Service fa	Service factor		
Breakdown torque		: 330 %	Temperature rise		: 80 K	
Rated speed : 2880 rpm		: 2880 rpm	Design		: B	
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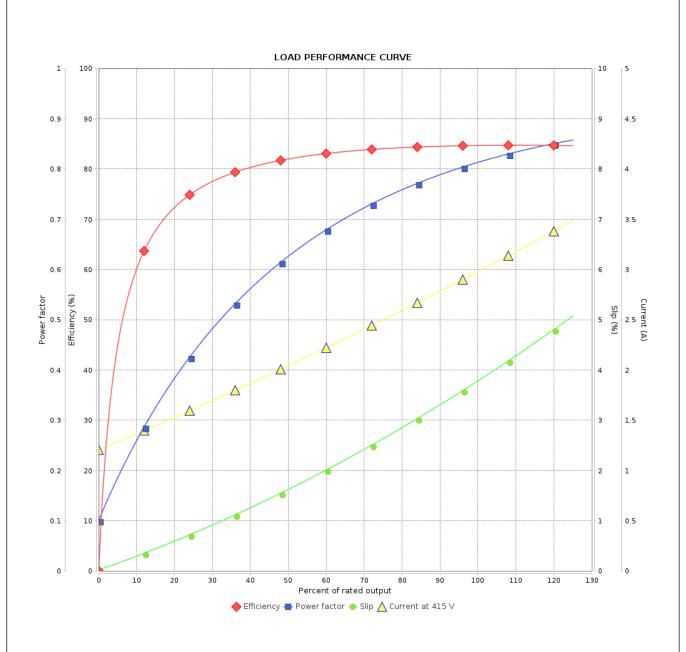
Date

28/10/2024

Product line : W21 Explosion Proof NEMA

Premium Efficiency Three-Phase

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Performance : 415 V 50 Hz 2P IE3 : 0.0023 kgm² Rated current : 3.05 A Moment of inertia (J) **LRC** : 8.0 Duty cycle : Cont.(S1) : 0.503 kgfm Insulation class Rated torque : F Locked rotor torque : 340 % Service factor : 1.00 Breakdown torque : 360 % Temperature rise : 80 K Rated speed : 2890 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by