DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Product code : 11341752

Premium Efficiency Three-Phase

Frame : 364/5T 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 : 459 kg
Protection degree : IP55 Moment of inertia (J) : 1.22 kgm²

Protection degree : IP35 Moment of Inertia (J) : 1.22 kgm ⁻					kgm-	
Design		: B			_	
Output [HP]		40	40	40	40	
Poles		6	6	6	6	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		94.2/47.1	56.7	54.5	52.8	
L. R. Amperes [A]		659/330	306	332	348	
LRC [A]		7.0x(Code H)	5.4x(Code F)	6.1x(Code G)	6.6x(Code G)	
No load current [A]	35.0/17.5	17.3	18.5	19.4	
Rated speed [RPN	<i>/</i> I]	1185	970	970	975	
Slip [%]		1.25	3.00	3.00	2.50	
Rated torque [kgfr		24.5	29.9	29.9	29.8	
Locked rotor torqu	Locked rotor torque [%]		180	200	220	
Breakdown torque	[%]	229	180	200	220	
Service factor		1.15	1.00	1.00		
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		43s (cold) 24s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	
Noise level ²		65.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)	
	25%	93.5	94.0	94.0	93.3	
Efficiency (%)	50%	93.6	93.6	93.6	93.0	
Lilloleticy (70)	75%	94.1	93.0	93.0	93.6	
	100%	94.1	92.4	92.4	93.0	
	25%	0.46	0.52	0.49	0.46	
Power Factor	50%	0.72	0.78	0.75	0.72	
I OWEL FACIOI	75%	0.80	0.83	0.82	0.80	
	100%	0.85	0.87	0.86	0.85	

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

Bearing type : 6314 C3 6314 C3 | Max. traction : 507 kgf Sealing : Oil Seal Lip Seal Max. compression : 966 kgf Lubrication interval : 14267 h 14267 h

Lubricant amount : 27 g 27 g
Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 104A SF 1.00 SFA 104A

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.

Rev.	Changes Summary			Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	30/10/2024				1/6	

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Thermal protection

		•		
ID	Application	Туре	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 °C

Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	30/10/2024			2/6	

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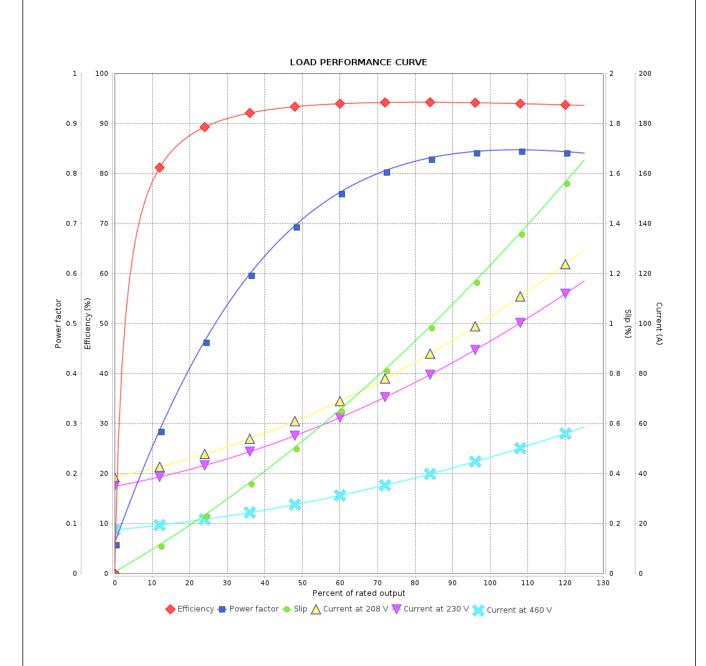


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Performance		: 230/460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	•	: 94.2/47.1 A : 7.0 : 24.5 kgfm : 229 % : 229 % : 1185 rpm	Moment of Duty cycl Insulation Service for Temperate Design	class actor	: 1.22 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary	/	Performed	Checked	Date

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	30/10/2024			3/6	

Three Phase Induction Motor - Squirrel Cage



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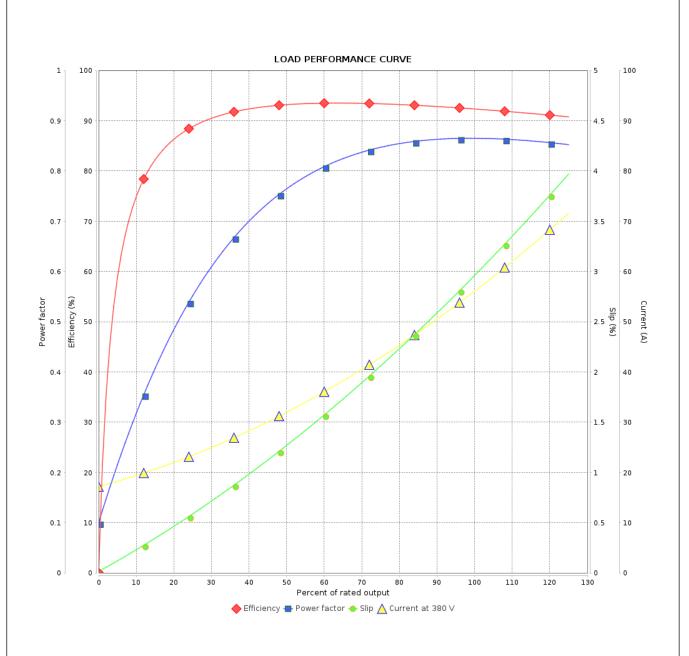
Date

30/10/2024

Product line : W21 Explosion Proof NEMA

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Performance	:	380 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		56.7 A 5.4 29.9 kgfm 180 % 180 % 970 rpm	Moment of inertia (J) : 1.22 kgm² Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
Rev.	Changes Summary			Performed	Checked	Date
Performed by						

Page

4/6

Revision

Three Phase Induction Motor - Squirrel Cage

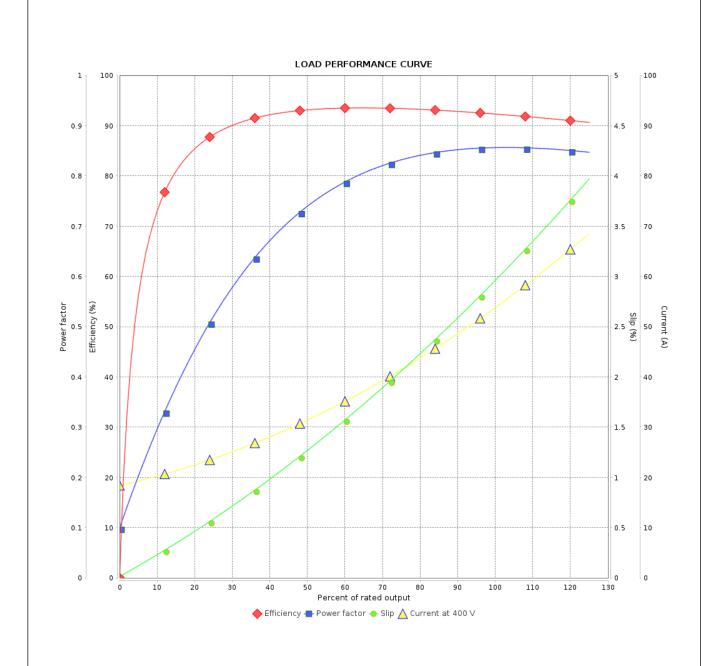


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		,				
Performance		: 400 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 54.5 A : 6.1 : 29.9 kgfm : 200 % : 200 % : 970 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		
Rev.		Changes Summary		Performed	Checked	Date
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Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	30/10/2024				5/6	

Three Phase Induction Motor - Squirrel Cage



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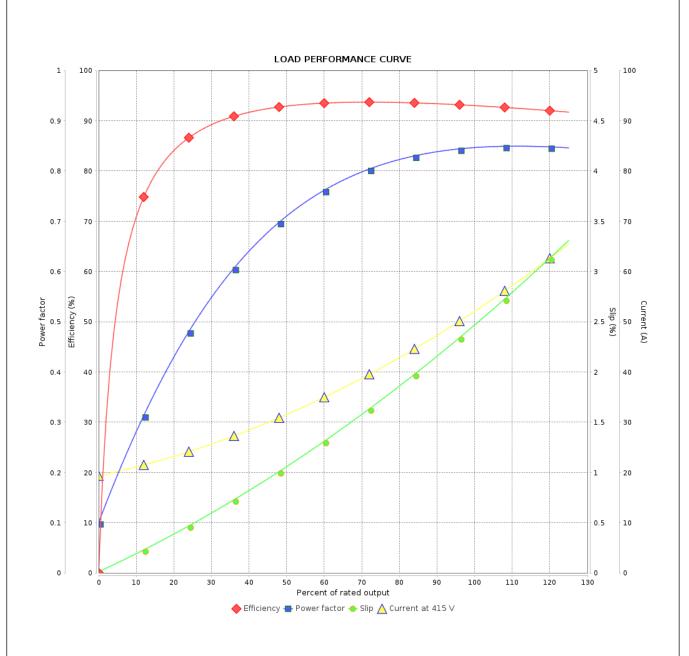
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30/10/2024

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Performance		: 415 V 50 H	Iz 6P IE3				
Rated current : 52.8 A LRC : 6.6 Rated torque : 29.8 kgfm Locked rotor torque : 220 % Breakdown torque : 220 % Rated speed : 975 rpm			Duty cycle : Co Insulation class : F Service factor : 1.		: 1.00 : 80 K		
Rev.	Changes Summary		Performed	Checked	Date		
Performed by							

Page

6/6

Revision

