DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Frame

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase

Product code: 14876143

: 213/5T 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

Approx. weight³ Altitude : 1000 m.a.s.l. : 91.6 kg Protection degree : IP55 Moment of inertia (J) : 0.0232 kgm²

Design	C	: B	Wioriicht of line	Women of mend (b)			
Output [HP]		10	10	10	10		
Poles		2	2	2	2		
Frequency [Hz]		60	50	50	50		
Rated voltage [V]		230/460	380	400	415		
Rated current [A]		23.4/11.7	14.1	13.4	13.0		
L. R. Amperes [A]		161/80.7	88.8	92.5	89.7		
LRC [A]		6.9x(Code H)	6.3x(Code G)	6.9x(Code H)	6.9x(Code H)		
No load current [A		7.20/3.60	3.50	3.80	4.10		
Rated speed [RPN	/ []	3525	2895	2910	2920		
Slip [%]		2.08	3.50	3.00	2.67		
Rated torque [kgfm]		2.06	2.51	2.49	2.49		
Locked rotor torque [%]		210	150	180	200		
Breakdown torque [%]		280	220	240	260		
Service factor		1.15	1.00	1.00	1.00		
Temperature rise		80 K	80 K	80 K	80 K		
Locked rotor time		54s (cold) 30s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)		
Noise level ²		72.0 dB(A)	67.0 dB(A)	67.0 dB(A)	67.0 dB(A)		
	25%						
Efficiency (%)	50%	88.5	88.5	88.5	88.5		
Efficiency (%)	75%	90.2	89.2	89.2	89.5		
100%		90.2	88.5	89.5	90.1		
	25%						
Power Factor	50%	0.79	0.85	0.82	0.80		
1 OWEL FACIOI	75%	0.87	0.90	0.88	0.87		
	100%	0.89	0.91	0.90	0.89		
Drive and Mandrive and Foundation leads							

Non drive end Foundation loads Drive end

6207 2RS Bearing type 6308 2RS Max. traction : 73 kgf Sealing Oil Seal Lip Seal Max. compression : 165 kgf

Lubrication interval Lubricant amount Lubricant type Mobil Polyrex EM

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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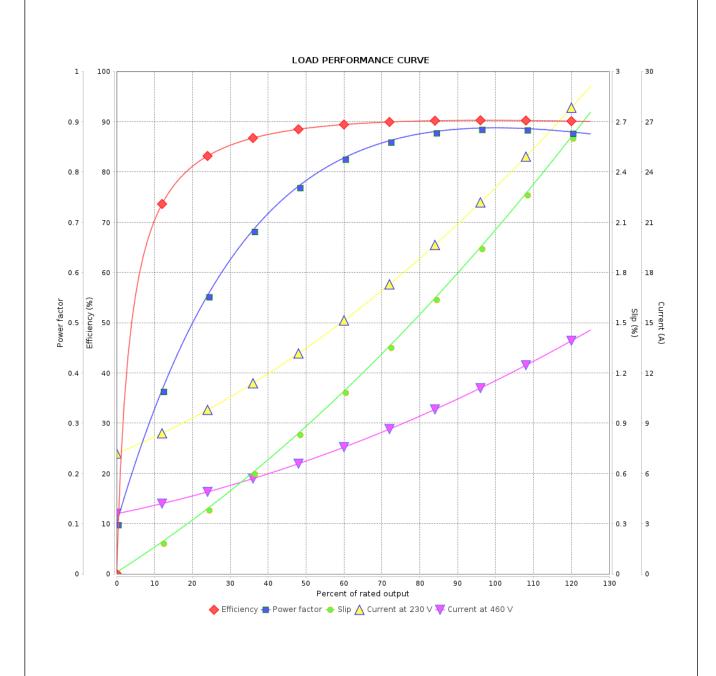
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W21 Explosion Proof NEMA Premium

Efficiency Three-Phase



Performance	: 2	30/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque		: 23.4/11.7 A		class	: 0.0232 kgm² : Cont.(S1) : F : 1.15	
Breakdown torque Rated speed	e : 2	80 % 525 rpm		Temperature rise Design		
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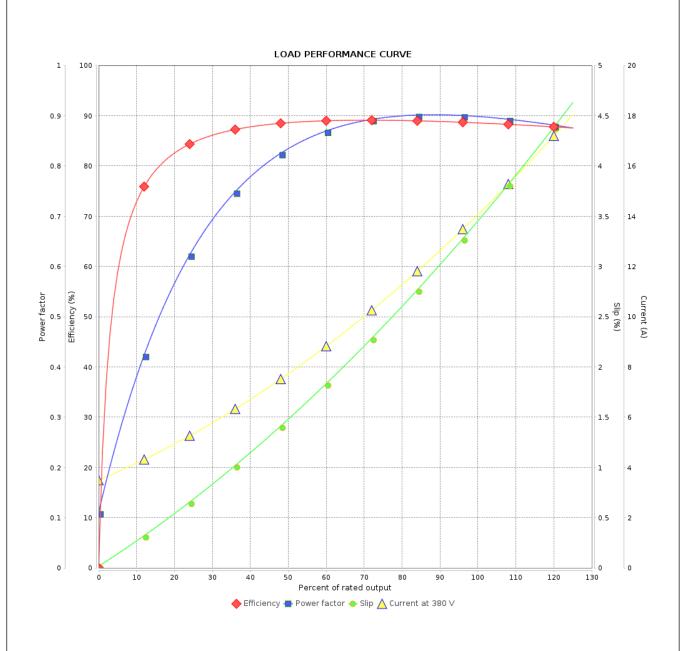
Three Phase Induction Motor - Squirrel Cage



Customer :

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Efficiency Three-Phase



Performance	: 3	80 V 50 Hz 2P IE2				
Rated current :		4.1 A	Moment of	Moment of inertia (J)		2
LRC	: 6	.3	Duty cycle	9	: Cont.(S1)	
Rated torque	: 2	.51 kgfm	Insulation	class	: F	
•		50 %	Service fa	actor	: 1.00	
Breakdown torque		20 %	Temperat	Temperature rise		
Rated speed	: 2	895 rpm	Design		: B	
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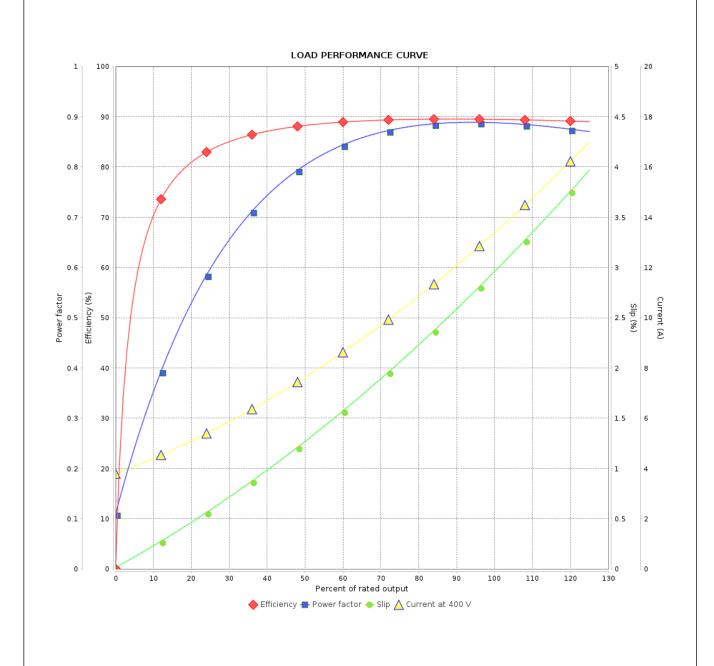
Three Phase Induction Motor - Squirrel Cage



Customer :

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Efficiency Three-Phase



Performance	: 4	00 V 50 Hz 2P IE2				
Rated current		3.4 A	3.4 A Moment of inertia (J)		: 0.0232 kgm²	
LRC	: 6	5.9	Duty cycle	}	: Cont.(S1)	
Rated torque	: 2	.49 kgfm	Insulation	class	: F	
Locked rotor torque		80 %	Service factor		: 1.00	
Breakdown torque	: 2	40 %	Temperature rise		: 80 K	
Rated speed	: 2	: 2910 rpm		Design		
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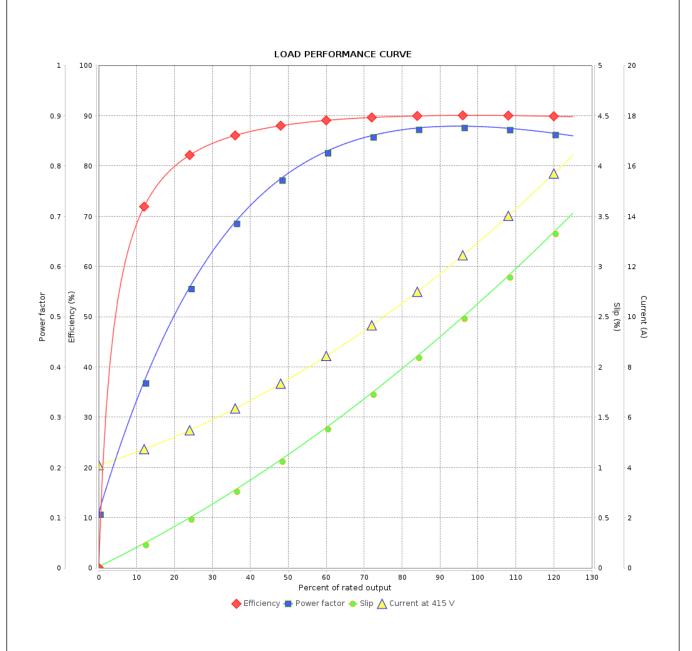
Three Phase Induction Motor - Squirrel Cage



Customer :

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Efficiency Three-Phase



	-1					
Performance	: 4	15 V 50 Hz 2P IE3				
Rated current : 13		3.0 A	Moment of inertia (J)		: 0.0232 kgm	2
LRC	: 6.	.9	Duty cycle	9	: Cont.(S1)	
Rated torque			class	: F		
Locked rotor tord	que : 20			actor	: 1.00	
Breakdown torque : 2		60 %	Temperature rise		: 80 K	
Rated speed		920 rpm	Design		: B	
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