DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-Product code: 14429634

Frame : 364/5TS Cooling method : IC01 - ODP

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 : 325 kg Protection degree : IP23 Moment of inertia (J) : 0.2697 kgm²

Design		: B			
Output [HP]		75	60	60	60
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		170/84.8	82.7	79.4	78.4
L. R. Amperes [A]		1119/560	579	588	588
LRC [A]		6.6x(Code G)	7.0x(Code H)	7.4x(Code H)	7.5x(Code H)
No load current [A]	43.0/21.5	20.7	22.7	25.0
Rated speed [RPN	/ 1]	3555	2955	2963	2965
Slip [%]		1.25	1.50	1.23	1.17
Rated torque [kgfm]		15.3	14.7	14.7	14.7
Locked rotor torque [%]		200	190	220	220
Breakdown torque [%]		250	229	250	280
Service factor		1.25	1.00	1.00	1.00
Temperature rise	Temperature rise		80 K	80 K	80 K
Locked rotor time			27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	Noise level ²				
	25%				
Efficiency (%)	50%	91.7	91.7	91.4	91.0
Efficiency (70)	75%	93.0	92.9	92.8	92.7
	100%	93.6	94.0	94.0	94.0
	25%				
Power Factor	50%	0.77	0.78	0.73	0.69
I OWEI FACIOI	75%	0.84	0.85	0.83	0.80
	100%	0.87	0.88	0.87	0.85

Non drive end Foundation loads Drive end

Bearing type 6314 C3 6212 Z C3 Max. traction : 300 kgf Sealing Without Without Max. compression : 624 kgf

Bearing Seal Bearing Seal Lubrication interval 14418 h 20000 h

Lubricant amount 27 g 13 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 188A SF 1.15 SFA 216A

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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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

Product code:

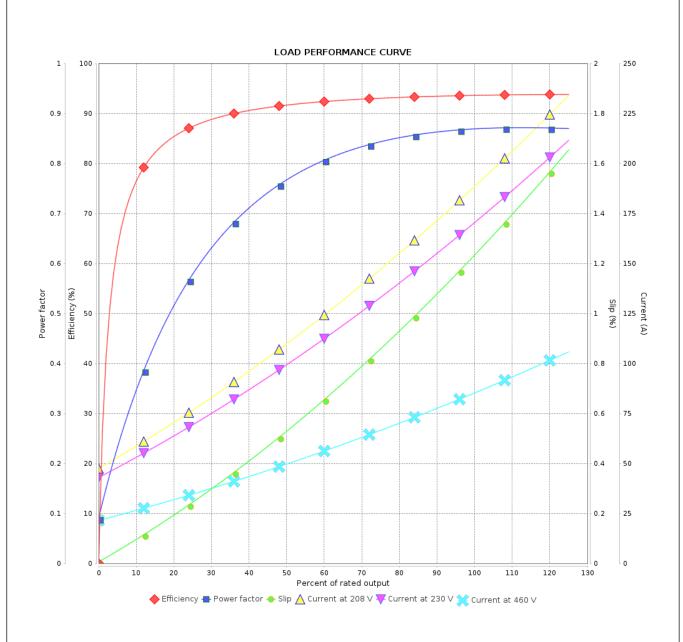
14429634

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15/01/2024

Date



Performance	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 170/84.8 A : 6.6 : 15.3 kgfm : 200 % : 250 % : 3555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2697 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
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Performed by							
Checked by				Page	Revision		

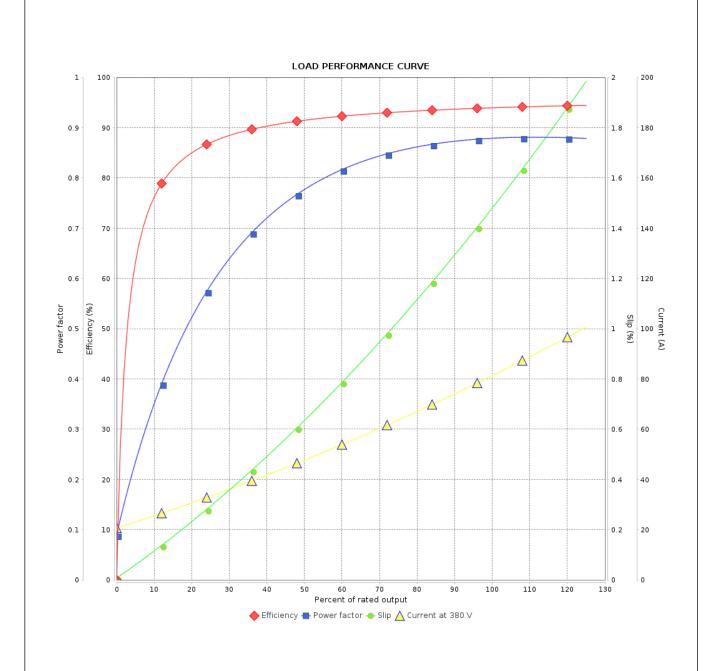
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code : 14429634

Phase



Performance	: 38	: 380 V 50 Hz 2P IE3				
Rated current : 82		2.7 A	Moment o	Moment of inertia (J)		2
LRC : 7.0		0	Duty cycle		: Cont.(S1)	
Rated torque : 1		1.7 kgfm	Insulation class		:F	
Locked rotor torque : 19		90 %	Service factor		: 1.00	
Breakdown torque :		29 %	Temperature rise		: 80 K	
Rated speed		55 rpm Design		: B		
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Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

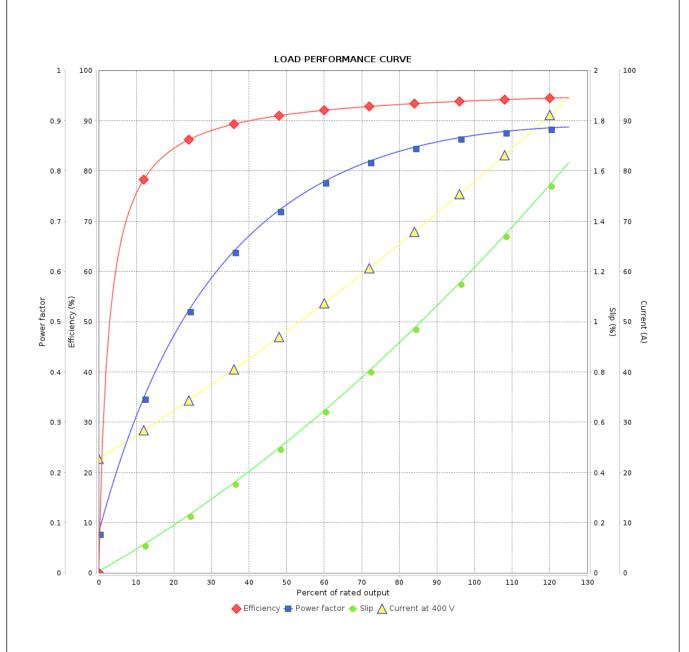
Product code:

14429634



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Date



Performance	: 400 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 79.4 A : 7.4 : 14.7 kgfm : 220 % : 250 % : 2963 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2697 kgm² : Cont.(S1) : F : 1.00 : 80 K : B			
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Three Phase Induction Motor - Squirrel Cage

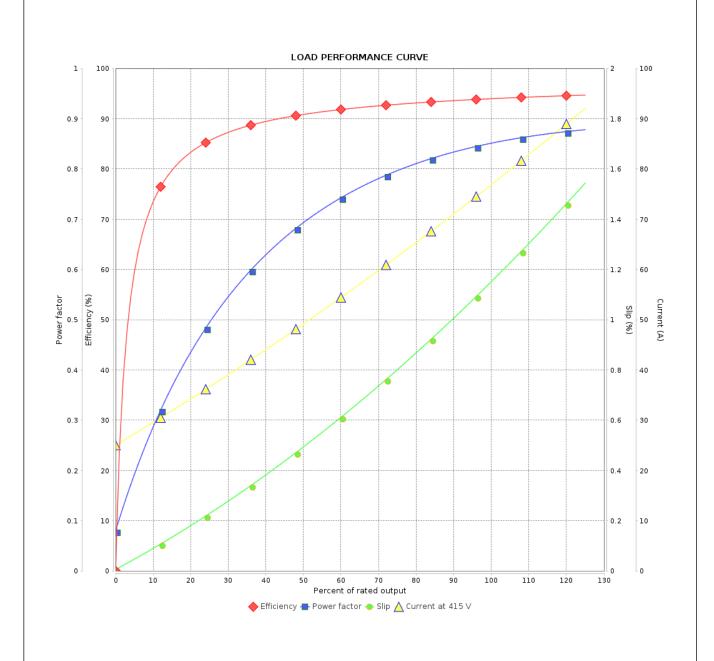


Customer :

Product line : W40 NEMA Premium Efficiency Three- Pro

Phase

Product code: 14429634



Performance		: 415 V 50 Hz 2P IE3					
Rated current		8.4 A Moment of inertia (J)		f inertia (J)	: 0.2697 kgm²		
LRC : 7		7.5	Duty cycle		: Cont.(S1)		
Rated torque :		4.7 kgfm	Insulation class		: F		
•		220 %	Service factor		: 1.00		
Breakdown torqu	e : 2	280 %	Temperature rise		: 80 K		
Rated speed	: 2	2965 rpm Design		: B			
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Checked by					Page	Revision	
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