DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14865595

Three-Phase

Frame : 404/5TSD Cooling method : IC01 - ODP

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 : 427 kg
Protection degree : IP23 Moment of inertia (J) : 0.3708 kgm²

Protection degree		: IP23	Moment of Inc	Moment of inertia (J) : 0.3708 kgm²				
Design		: B						
Output [HP]		150	100	100	100			
Poles		2	2	2	2			
Frequency [Hz]		60	50	50	50			
Rated voltage [V]		230/460	380	400	415			
Rated current [A]		334/167	137 133		133			
L. R. Amperes [A]		2204/1102	986	1051	1117			
LRC [A]		6.6x(Code G)	7.2x(Code H)	7.9x(Code J)	8.4x(Code K)			
No load current [A]	80.0/40.0	43.8	43.7	48.9			
Rated speed [RPN	<i>/</i> I]	3552	2960	2965	2965			
Slip [%]		1.33	1.33	1.17	1.17			
Rated torque [kgfm]		30.7	24.5	24.5	24.5			
Locked rotor torque [%]		200	229	250	270			
Breakdown torque [%]		250	290	330	360			
Service factor	Service factor		1.00	1.00	1.00			
Temperature rise		80 K	80 K	80 K	80 K			
Locked rotor time		16s (cold) 9s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)			
Noise level ²		84.0 dB(A)						
	25%							
Efficiency (%)	50%	93.6	93.7	93.2	92.7			
Efficiency (%)	75%	94.1	94.4	94.2	93.9			
	100%	94.1	94.7	94.7	94.7			
	25%							
Power Factor	50%	0.79	0.76	0.70	0.65			
FOWEI FACIOI	75%	0.86	0.85	0.81	0.77			
	100%	0.88	0.88	0.86	0.83			

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

Bearing type : 6314 C3 6212 Z C3 Max. traction : 653 kgf
Sealing : Without Without Max. compression : 1080 kgf

Bearing Seal Bearing Seal Lubrication interval : 14418 h 20000 h Lubricant amount : 27 g 13 g

Lubricant amount : 27 g 13 g Lubricant type : Mobil Polyrex EM

Notes

USABLE @208V 369A SF 1.15 SFA 425A

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 :

Checked by

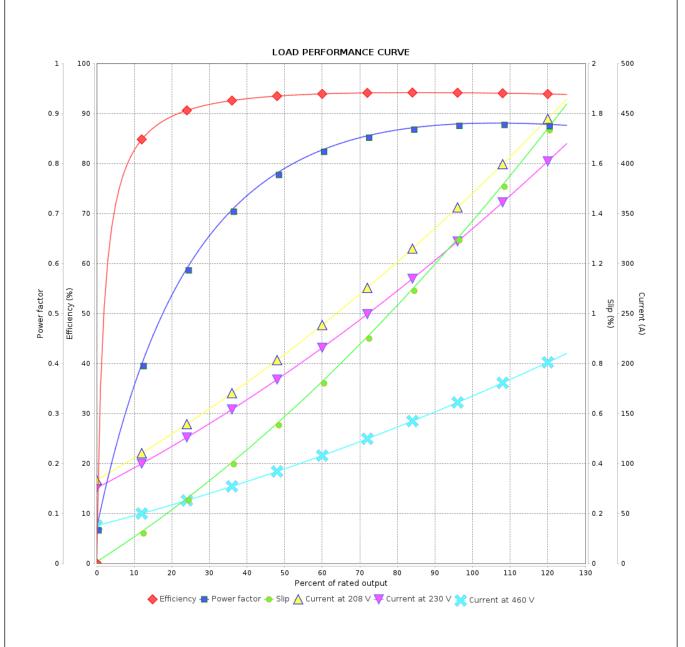
Date

29/10/2024

Product line : W40 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	jue je	: 334/167 A : 6.6 : 30.7 kgfm : 200 % : 250 % : 3552 rpm		Moment o Duty cycle Insulation Service fa Temperatu Design	class ctor	: 0.3708 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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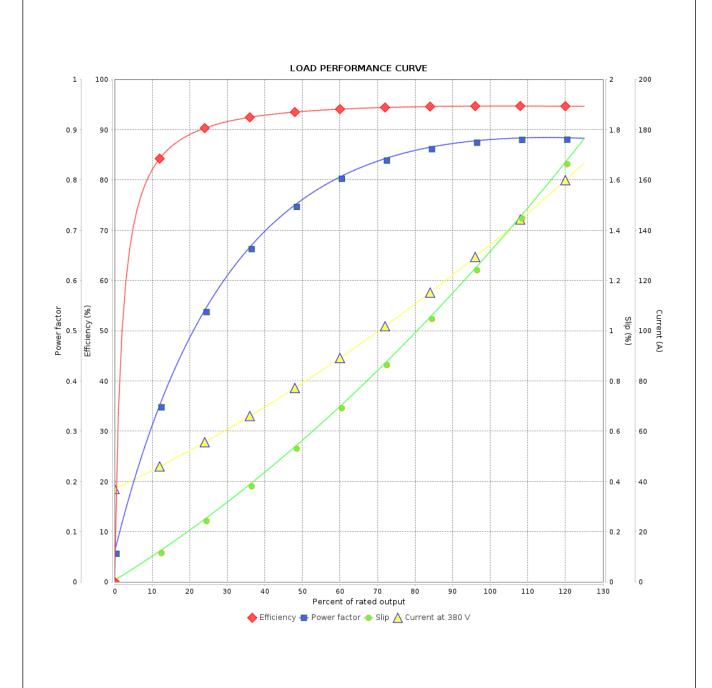
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Product code : 14865595

Three-Phase



Performance	: 380 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 137 A : 7.2 : 24.5 kgfm : 229 % : 290 % : 2960 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3708 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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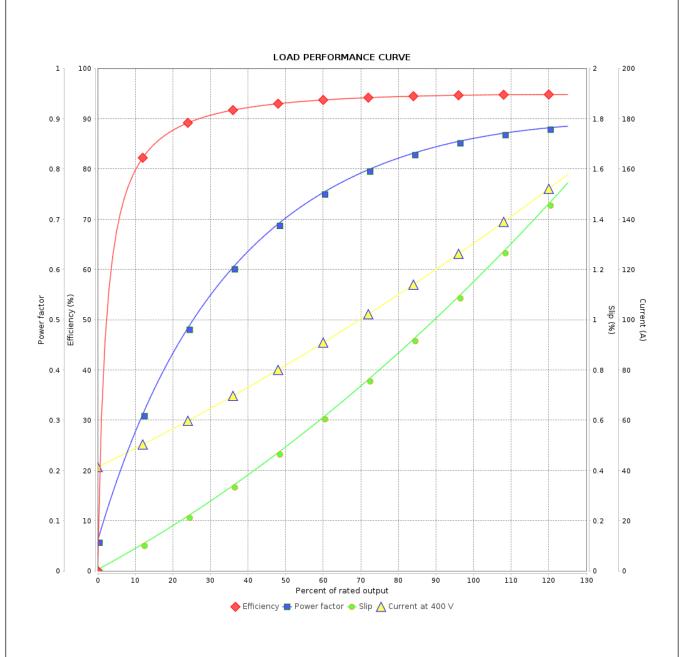


Customer :

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Three-Phase

Product code: 14865595



Performance	: 400 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 133 A : 7.9 : 24.5 kgfm : 250 % : 330 % : 2965 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3708 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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Three Phase Induction Motor - Squirrel Cage

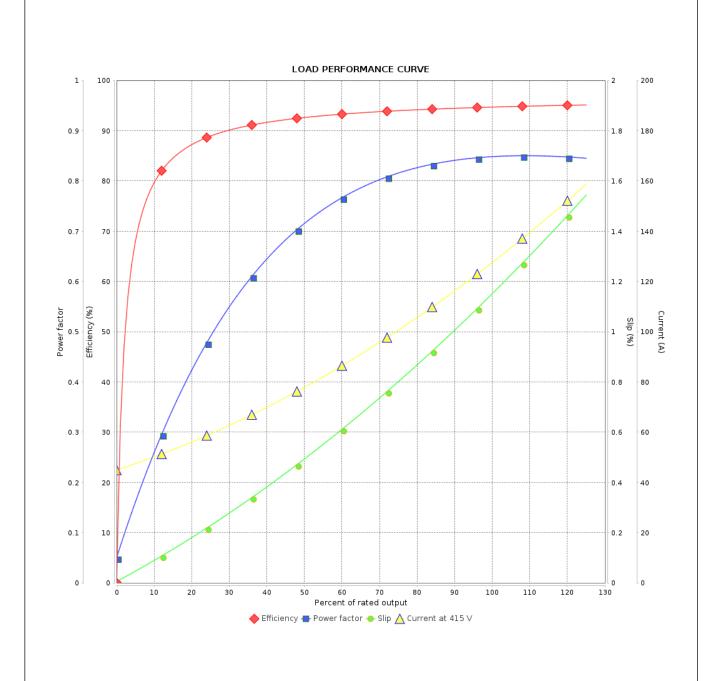


Customer :

Checked by

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Three-Phase



Performance	: 415 V 50 Hz 2P IE3				
Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3708 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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