DATA SHEET

Three Phase Induction Motor - Squirrel Cage



14432864

: IC01 - ODP

Customer

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

: 404/5TS Frame Cooling method

Insulation class Mounting : F : 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 : 401 kg Protection degree : IP23 Moment of inertia (J) : 0.3708 kgm²

Design		: B			,	J
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 [RPM]	3552	2	2960	2965	2965
Slip [%]				1.33	1.17	1.17
Rated torque [kgfm		30.6		24.5	24.5	24.5
Locked rotor torque	e [%]	200		229	250	270
Breakdown torque	[%]	250		290	330	360
Service factor		1.25		1.00	1.00	1.00
Temperature rise		80 K	8	30 K	80 K	80 K
Locked rotor time		16s (cold) 9s (hot)	21s (col	d) 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
Elliciency (70)	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
I OWELL ACIOL	75%	0.86		0.85	0.81	0.77
	100%	0.88		0.88	0.86	0.83

Non drive end Foundation loads Drive end

Bearing type 6314 C3 6212 Z C3 Max. traction : 666 kgf Sealing Without Without Max. compression : 1068 kgf

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

Mobil Polyrex EM Lubricant type

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.

Rev.		Changes Summary	Performed	Checked	Date
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Date	15/01/2024			1/5	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

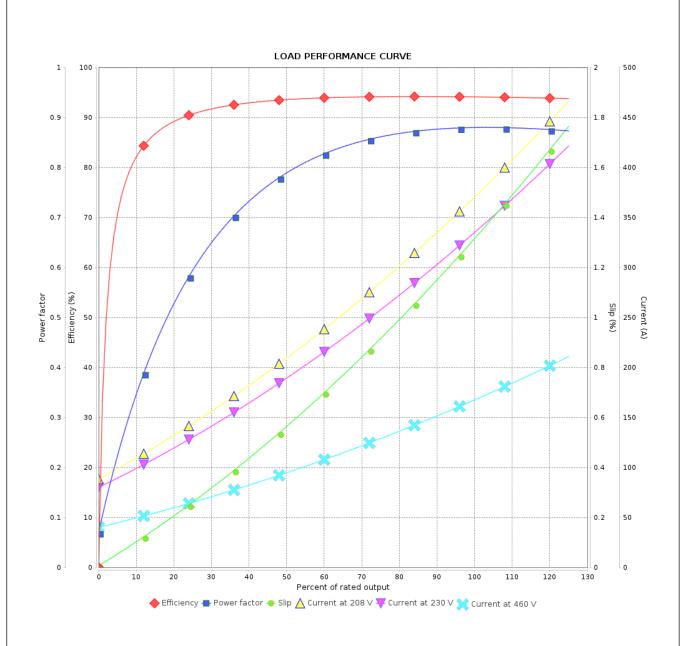
Product code:

14432864



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Date



Performance	: 230/460 V 60 Hz 2P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 334/167 A : 6.6 : 30.6 kgfm : 200 % : 250 % : 3552 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3708 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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Checked by				Page	Revision

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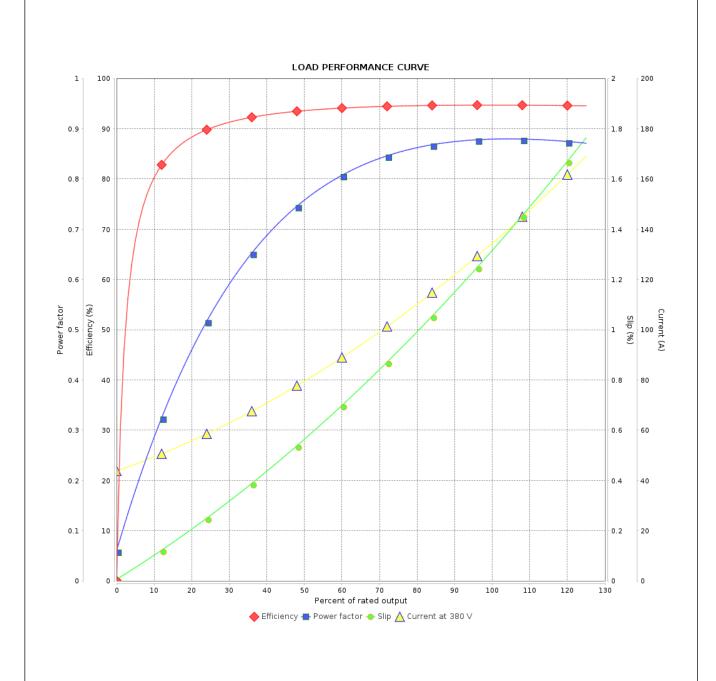
Three Phase Induction Motor - Squirrel Cage



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Customer

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



Performance	: 3	80 V 50 Hz 2P IE3				
Rated current LRC		37 A .2		Moment of inertia (J) Duty cycle		2
_		4.5 kgfm	Insulation	Insulation class		
Locked rotor torque Breakdown torque		29 % 90 %		Service factor Temperature rise		
Rated speed		960 rpm Design		u. 0 1.00	: 80 K : B	
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Customer :

Product line : W40 NEMA Premium Efficiency Three-

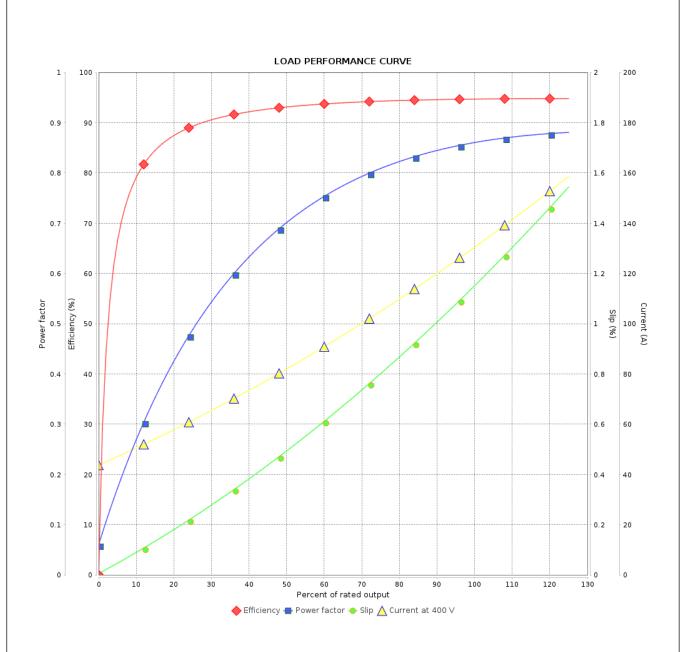
Product code:

14432864



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Date



D. (400 \ / 50 LL OD IFO	*		
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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Performed by				
Checked by			Page	Revision

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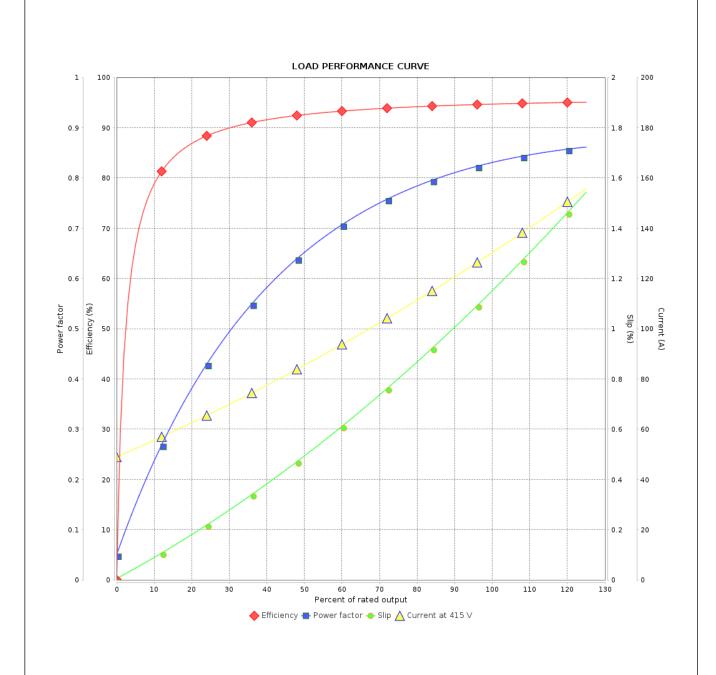
Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code : 14432864

Phase

15/01/2024

Date



Performance	: 415 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 133 A : 8.4 : 24.5 kgfm : 270 % : 360 % : 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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