### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code : 14429855

Phase

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 : 332 kg

Protection degree : IP23 Moment of inertia (J) : 0.3034 kgm²

Design		: B		( )	· ·	
Output [HP]		100	75	75	75	
Poles		2	2	2	2	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		232/116	103	100	97.8	
L. R. Amperes [A]		1531/766	773	800	773	
LRC [A]		6.6x(Code G)	7.5x(Code H)	8.0x(Code J)	7.9x(Code J)	
No load current [A	.]	59.0/29.5	28.5	32.5	35.0	
Rated speed [RPI	Л]	3555	2960	2964	2967	
Slip [%]		1.25	1.33	1.20	1.10	
Rated torque [kgfm]		20.4	18.4	18.4	18.3	
Locked rotor torque [%]		180	220	240	250	
Breakdown torque [%]		229	260	280	320	
Service factor		1.25	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		23s (cold) 13s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	19s (cold) 11s (hot)	
Noise level <sup>2</sup>		84.0 dB(A)				
	25%					
Efficiency (%)	50%	92.4	90.2	90.3	90.3	
Elliciency (70)	75%	93.6	91.9	92.0	92.0	
	100%	93.6	94.3	94.3	94.3	
	25%					
Power Factor	50%	0.77	0.74	0.69	0.70	
FOWEI FACIOI	75%	0.84	0.83	0.78	0.80	
	100%	0.87	0.86	0.84	0.83	
		Drive and Non de	ive and Faundation les	ada		

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

Bearing type : 6314 C3 6212 Z C3 Max. traction : 494 kgf
Sealing : Without Without Max. compression : 826 kgf

Bearing Seal Bearing Seal
Lubrication interval : 14418 h 20000 h

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

Notes

USABLE @208V 257A SF 1.15 SFA 295A

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-

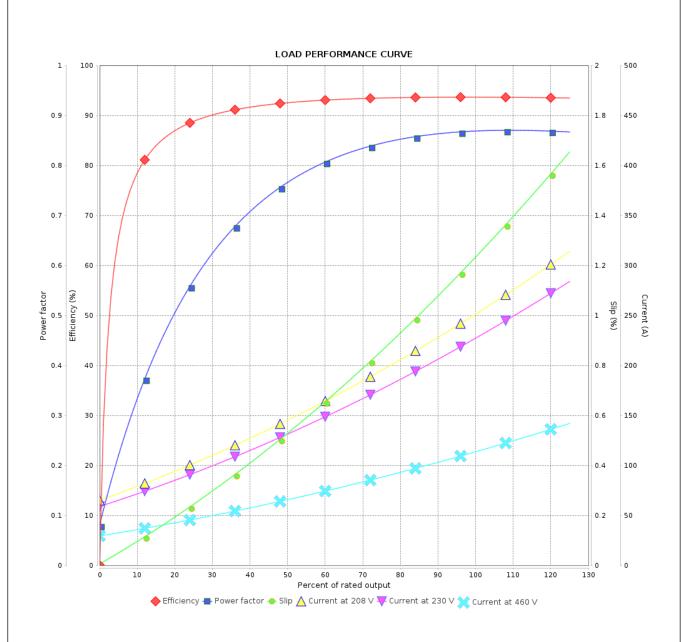
Product code:

14429855



15/01/2024

Date



Performance	: 230/460 V 60 Hz 2P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 232/116 A : 6.6 : 20.4 kgfm : 180 % : 229 % : 3555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.3034 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
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Checked by				Page	Revision		

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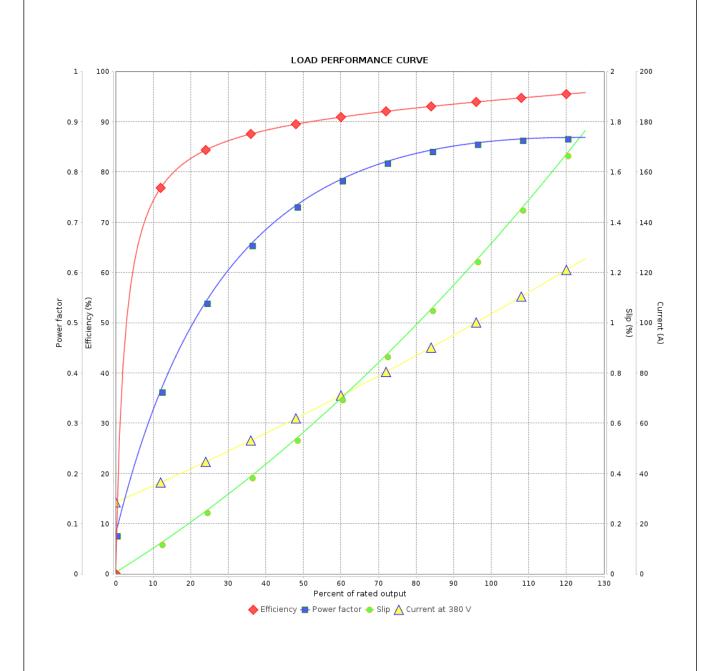
### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-

Product code: 14429855



Performance	:	: 380 V 50 Hz 2P IE3					
Rated current :		103 A	Moment o	Moment of inertia (J)		2	
LRC : 7.		7.5	Duty cycle	Duty cycle			
Rated torque :		18.4 kgfm	Insulation class		: F		
Locked rotor torque : 2		220 %	Service factor		: 1.00		
Breakdown torque		260 %	Temperati	Temperature rise			
Rated speed	:	960 rpm Design		: B			
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### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-

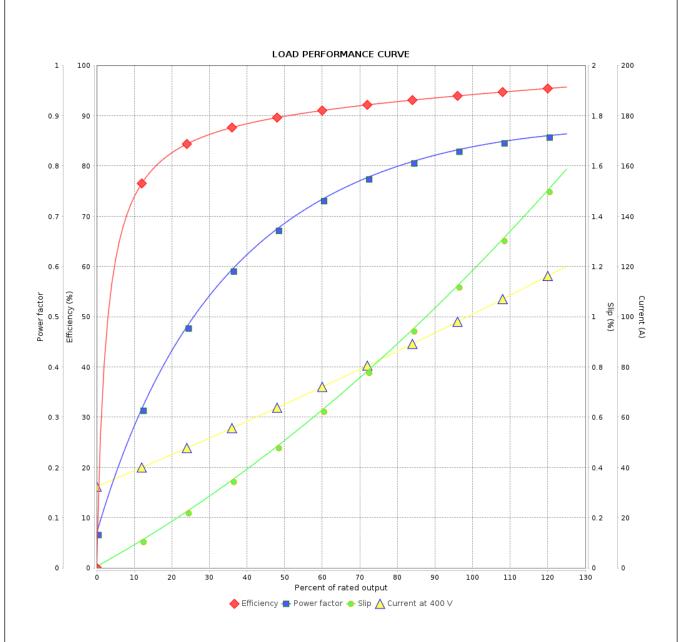
Product code:

14429855



15/01/2024

Date



Performance	: 400 V 50 Hz 2P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 100 A : 8.0 : 18.4 kgfm : 240 % : 280 % : 2964 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.3034 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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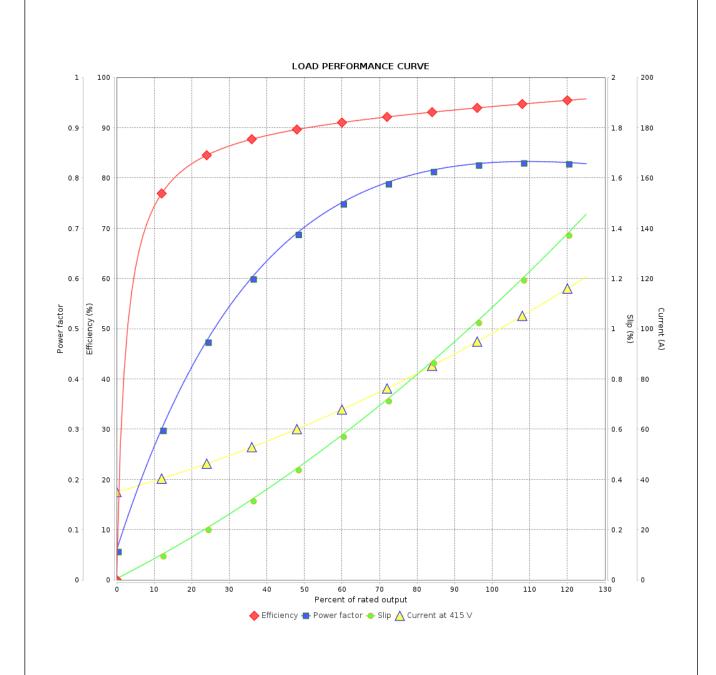
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code : 14429855

Phase



Performance		: 415 V 50 Hz 2P IE3					
Rated current LRC Rated torque Locked rotor torqu Breakdown torque	: 7. : 18 e : 25	7.8 A 9 3.3 kgfm 50 % 20 %	Duty cycle gfm Insulation class Service factor		: 0.3034 kgm² : Cont.(S1) : F : 1.00 : 80 K		
Rated speed	: 29	Design		: B			
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