### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code : 14429569

Phase

Frame : 364/5T Cooling method : IC01 - ODP Insulation class : F Mounting : F-1

Altitude : 1000 m.a.s.l. Approx. weight³ : 338 kg

Protection degree : IP23 Moment of inertia (J) : 0.6555 kgm²

Design : B

Design		: B			
Output [HP]		60	50	50	50
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		140/69.9	69.6	66.9	65.3
L. R. Amperes [A]		909/454	473	482	457
LRC [A]		6.5x(Code G)	6.8x(Code G)	7.2x(Code H)	7.0x(Code H)
No load current [A	]	49.4/24.7	24.4	26.2	27.7
Rated speed [RPM]		1780	1480	1480	1485
Slip [%]		1.11	1.33	1.33	1.00
Rated torque [kgfn		24.5	24.5	24.5	24.4
Locked rotor torqu		200	200	220	240
Breakdown torque	[%]	240	229	250	270
Service factor	Service factor		1.00	1.00	1.00
Temperature rise	Temperature rise		80 K	80 K	80 K
Locked rotor time	ocked rotor time		32s (cold) 18s (hot)	30s (cold) 17s (hot)	28s (cold) 16s (hot)
Noise level <sup>2</sup>		69.0 dB(A)			
	25%				
Efficiency (%)	50%	94.5	93.5	93.5	93.5
Efficiency (70)	75%	95.0	93.9	93.9	93.9
	100%	95.0	93.9	93.9	93.9
	25%				
Power Factor	50%	0.73	0.74	0.71	0.68
I OWEI FACIOI	75%	0.82	0.83	0.81	0.79
	100%	0.85	0.86	0.85	0.84

<u>Drive end</u> <u>Non drive end</u> Foundation loads earing type : 6314 C3 6212 Z C3 Max traction

Bearing type : 6314 C3 6212 Z C3 Max. traction : 572 kgf
Sealing : Without Without Max. compression : 911 kgf

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

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

Notes

USABLE @208V 155A SF 1.15 SFA 178A

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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Checked by				Page	Revision
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

15/01/2024

Product line : W40 NEMA Premium Efficiency Three-

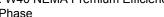
Product code:

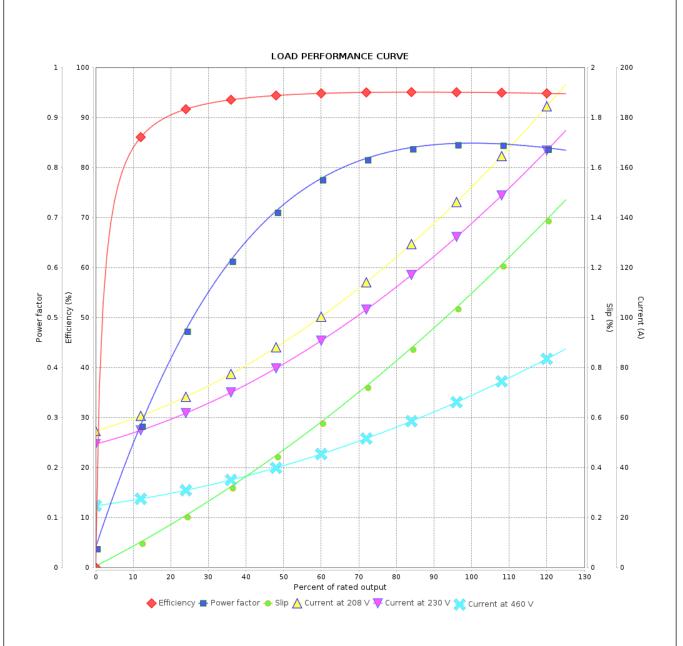
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Revision





Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 140/69.9 A : 6.5 : 24.5 kgfm : 200 % : 240 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6555 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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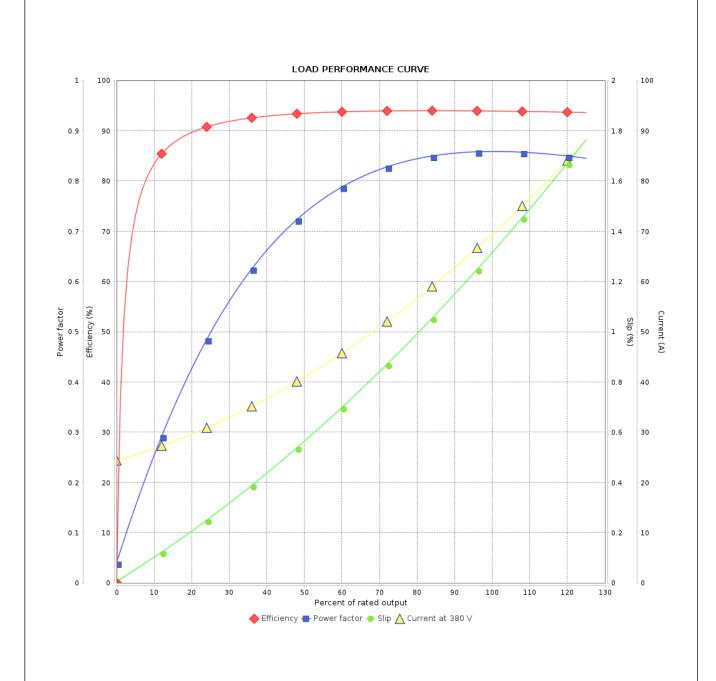
Customer :

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

Phase

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Date



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.6 A : 6.8 : 24.5 kgfm : 200 % : 229 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6555 kgm² : Cont.(S1) : F : 1.00 : 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-

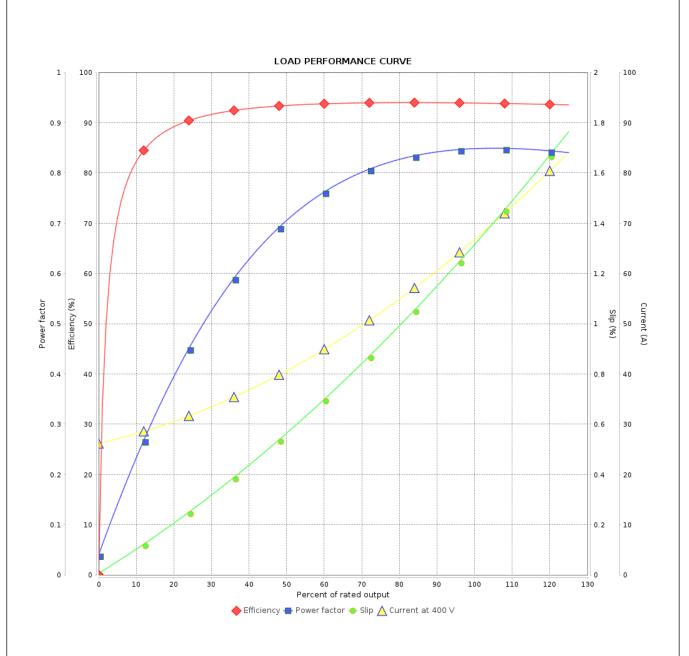
Product code:

14429569

Phase

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Date



Performance	: 400 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 66.9 A : 7.2 : 24.5 kgfm : 220 % : 250 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.6555 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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### Three Phase Induction Motor - Squirrel Cage



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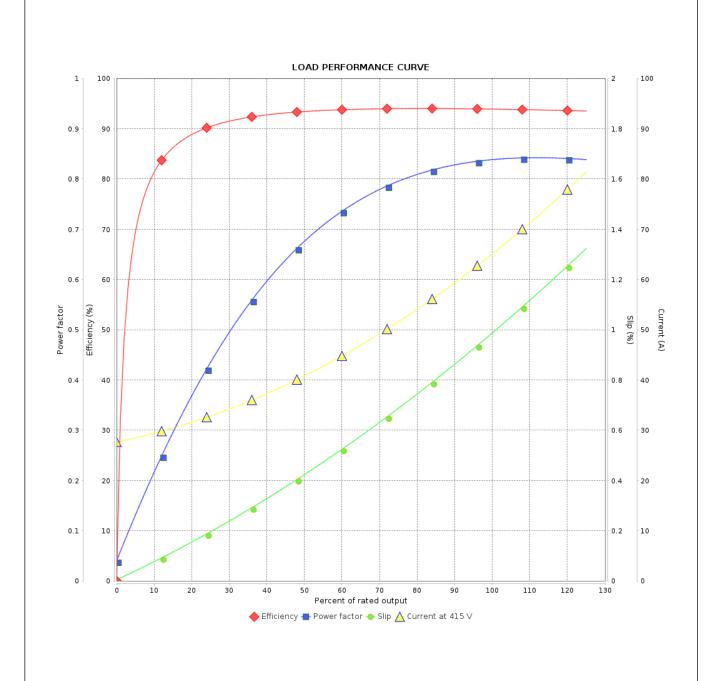
Customer :

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

Phase

15/01/2024

Date



Performance	: 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 65.3 A : 7.0 : 24.4 kgfm : 240 % : 270 % : 1485 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.6555 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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