### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-Product code: 14448257

Frame : 444/5T Cooling method : IC01 - ODP Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) : Direct On Line

Ambient temperature : -20°C to +40°C Starting method Altitude : 1000 m.a.s.l. Approx. weight<sup>3</sup> : 688 kg : 2.14 kgm² Protection degree : IP23 Moment of inertia (J)

Design		: B			
Output [HP]		250 200		200	200
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460 380		400	415
Rated current [A]		578/289	578/289 283		269
L. R. Amperes [A]		3699/1850	1953	1986	1991
LRC [A]		6.4x(Code G)	6.9x(Code H)	7.3x(Code H)	7.4x(Code J)
No load current [A	]	212/106	105	115	125
Rated speed [RPN	<b>/</b> ]	1780	1480	1480	1485
Slip [%]	Slip [%]		1.33	1.33	1.00
Rated torque [kgfm]		102	98.1	98.1	97.7
Locked rotor torque [%]		210	200	229	250
Breakdown torque [%]		240	220	240	270
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		16s (cold) 9s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)
Noise level <sup>2</sup>		78.0 dB(A)			
	25%				
Efficiency (%)	50%	95.4	95.5	95.3	94.9
Linciency (70)	75%	95.8	95.6	95.5	95.4
	100%	95.8	95.8	95.8	95.8
	25%				
Power Factor	50%	0.72	0.72	0.67	0.64
I OWEI FACIOI	75%	0.80	0.81	0.78	0.75
	100%	0.84	0.84	0.83	0.81

Non drive end Drive end Foundation loads 6319 C3 6212 Z C3

Bearing type Max. traction : 1964 kgf Sealing Without Without Max. compression : 2652 kgf

Bearing Seal Bearing Seal Lubrication interval 20000 h 20000 h Lubricant amount 45 g 13 g

Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 639A SF 1.00 SFA 639A

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
Performed by					
Checked by				Page	Revision
Date	15/01/2024			1/5	

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

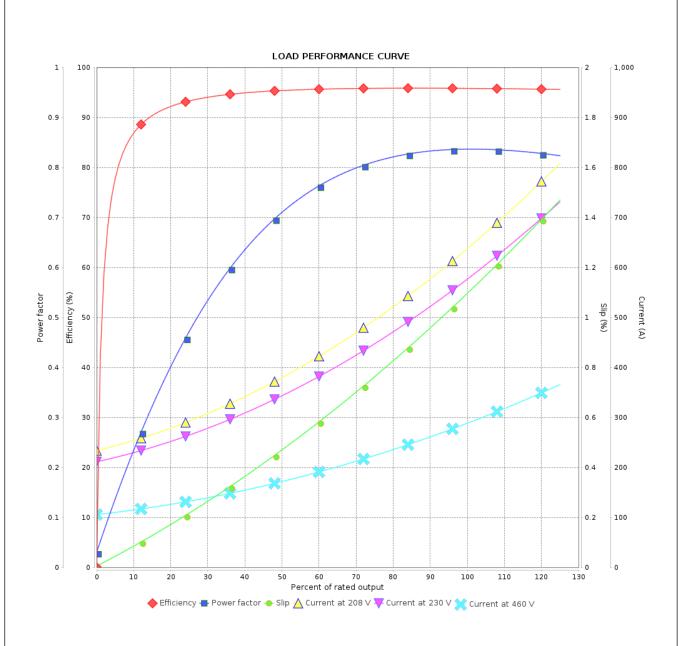
Product code:

14448257



15/01/2024

Date



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 578/289 A : 6.4 : 102 kgfm : 210 % : 240 % : 1780 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.14 kgm² : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision

2/5

#### Three Phase Induction Motor - Squirrel Cage



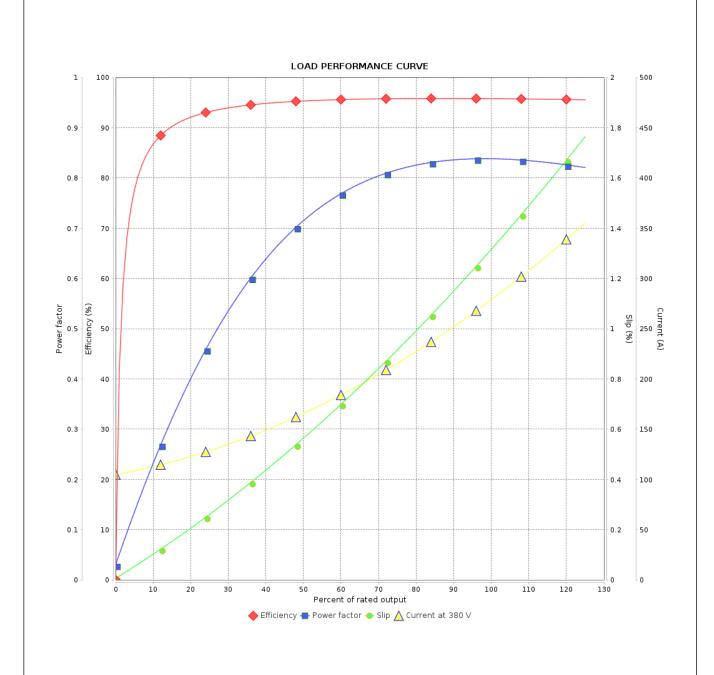
Customer :

Product line : W40 NEMA Premium Efficiency Three- Product code : 14448257

Phase

15/01/2024

Date



Performance	: 380 V 50 Hz 4P IE3				
Rated current	: 283 A	Moment of inertia (J)		: 2.14 kgm²	
LRC	: 6.9	Duty cycle		: Cont.(S1)	
Rated torque	: 98.1 kgfm	Insulation class		: F	
Locked rotor torque	: 200 %	Service factor		: 1.00	
Breakdown torque	: 220 %	Temperature rise		: 80 K	
Rated speed	: 1480 rpm	Design		: B	
Rev.	Changes Summary		Performed	Checked	Date
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Checked by				Page	Revision

3/5

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

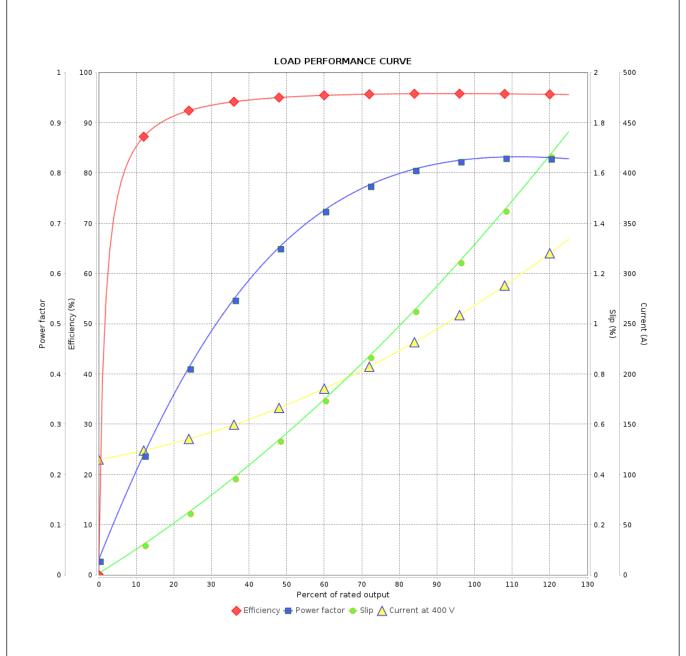
Product code:

14448257

Phase

15/01/2024

Date



Performance	: 400 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 272 A : 7.3 : 98.1 kgfm : 229 % : 240 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 2.14 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
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Checked by				Page	Revision

4/5

#### Three Phase Induction Motor - Squirrel Cage



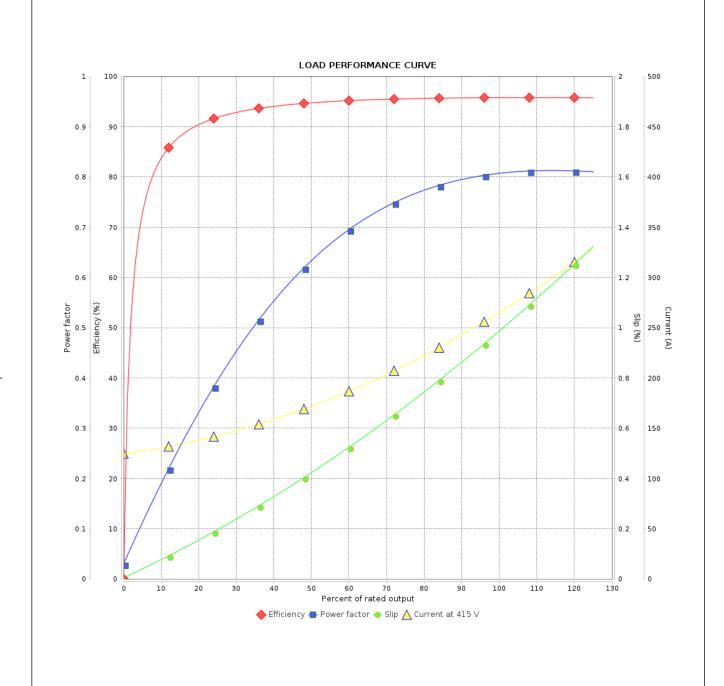
Customer :

Product line : W40 NEMA Premium Efficiency Three-

W40 NEWA FIEIHIUH EINGERCY THEE

Product code:

14448257



Performance : 4		415 V 50 Hz 4P IE3				
Rated current		269 A	Moment of inertia (J)		: 2.14 kgm²	
LRC		7.4	Duty cycle		: Cont.(S1)	
Rated torque		97.7 kgfm Insulation		class	: F	
Locked rotor torque		250 %	Service factor		: 1.00	
Breakdown torque		270 %	Temperat	Temperature rise		
Rated speed	: '	485 rpm Design		: B		
Rev.		Changes Summary	,	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	15/01/2024	/2024			5/5	