### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-Product code: 15825712

Cooling method Frame : 284T : IC01 - ODP Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW) Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Approx. weight<sup>3</sup> Altitude : 1000 m.a.s.l. : 158 kg Protection degree : IP23 Moment of inertia (J) : 0.1563 kgm<sup>2</sup>

Design		: B		. ,	· ·	
Output [HP]		25	20	20	20	
Poles		4	4	4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		230/460	380	400	415	
Rated current [A]		59.0/29.5	29.5	28.7	28.0	
L. R. Amperes [A]		372/186	171	192	199	
LRC [A]		6.3x(Code G)	5.8x(Code G)	6.7x(Code H)	7.1x(Code J)	
No load current [A]		20.8/10.4	10.3	11.0	11.6	
Rated speed [RPM	1]	1770	1470	1475	1475	
Slip [%]		1.67	2.00	1.67	1.67	
Rated torque [kgfm		10.3	9.87	9.84	9.84	
Locked rotor torque	e [%]	229	220	240	270	
Breakdown torque	[%]	270	250	290	300	
Service factor		1.25	1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	80 K	
Locked rotor time		59s (cold) 33s (hot)	55s (cold) 31s (hot)	55s (cold) 31s (hot)	55s (cold) 31s (hot)	
Noise level <sup>2</sup>		64.0 dB(A)				
	25%					
Efficiency (%)	50%	93.0	91.7	91.7	91.7	
Elliciency (70)	75%	93.6	92.1	92.1	92.1	
	100%	93.6	92.1	92.1	92.1	
	25%					
Power Factor	50%	0.69	0.69	0.65	0.62	
I OWEI FACIOI	75%	0.80	0.79	0.77	0.74	
	100%	0.84	0.84	0.82	0.81	

Non drive end Foundation loads Drive end Bearing type 6311 Z C3 6211 Z C3 Max. traction Sealing Without Without Max. compression

Bearing Seal Bearing Seal

Lubrication interval 20000 h 20000 h Lubricant amount 18 g 11 g Mobil Polyrex EM Lubricant type

Notes

USABLE @208V 65.2A SF 1.15 SFA 75.0A

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	22/10/2023			1/5	

### Three Phase Induction Motor - Squirrel Cage



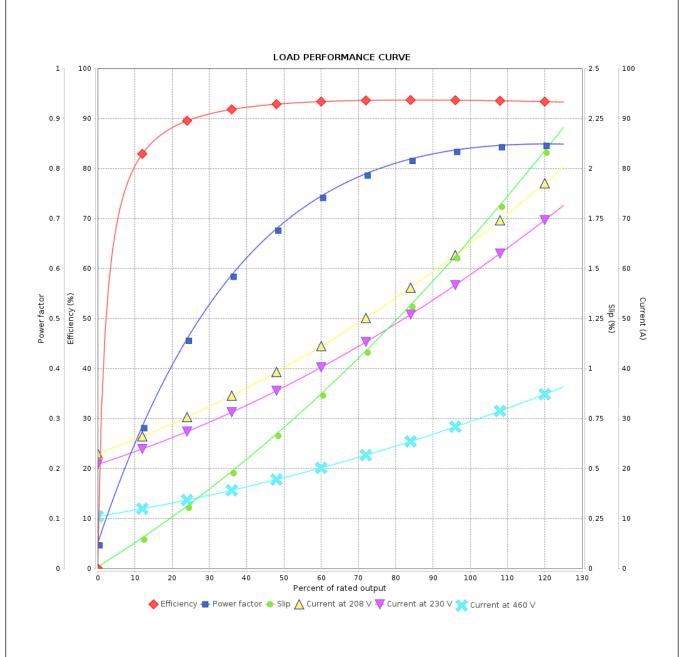
Customer

Product line : W40 NEMA Premium Efficiency Three-

Dhace

Product code:

15825712



Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 59.0/29.5 A : 6.3 : 10.3 kgfm : 229 % : 270 %	Duty cycle Insulation Service fa Temperate	class actor	: 0.1563 kgm <sup>2</sup> : Cont.(S1) : F : 1.25 : 80 K	2
Rated speed  Rev.	: 1770 rpm  Changes Summary	Design	Performed	: B Checked	Date
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### Three Phase Induction Motor - Squirrel Cage



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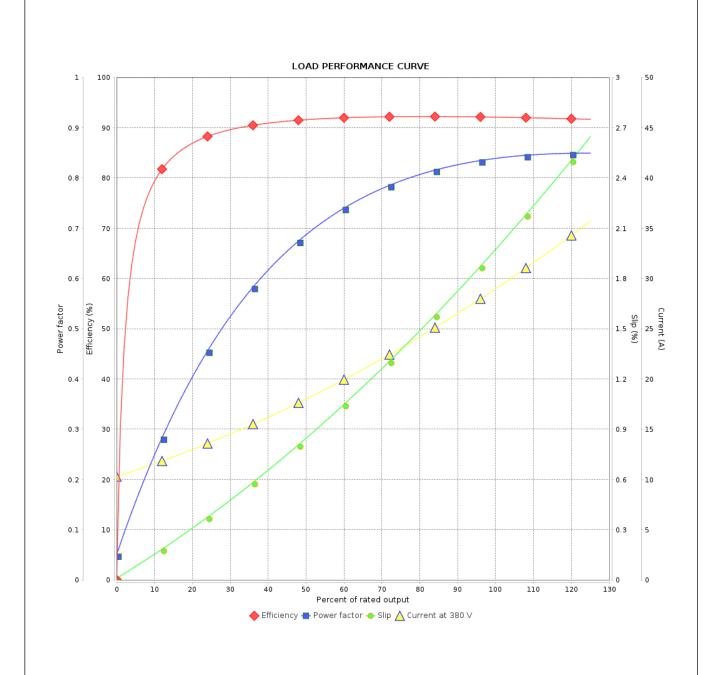
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Product line : W40 NEMA Premium Efficiency Three- Product code :

Phase



Rated current : 29.5 A	Performance : 380 V 50 Hz 4P IE3					
	LRC : 5.8 Rated torque : 9.87 kgfm Locked rotor torque : 220 % Breakdown torque : 250 %		Duty cycle Insulation Service fa Temperatu	class ctor	: Cont.(S1) : F : 1.00 : 80 K	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-

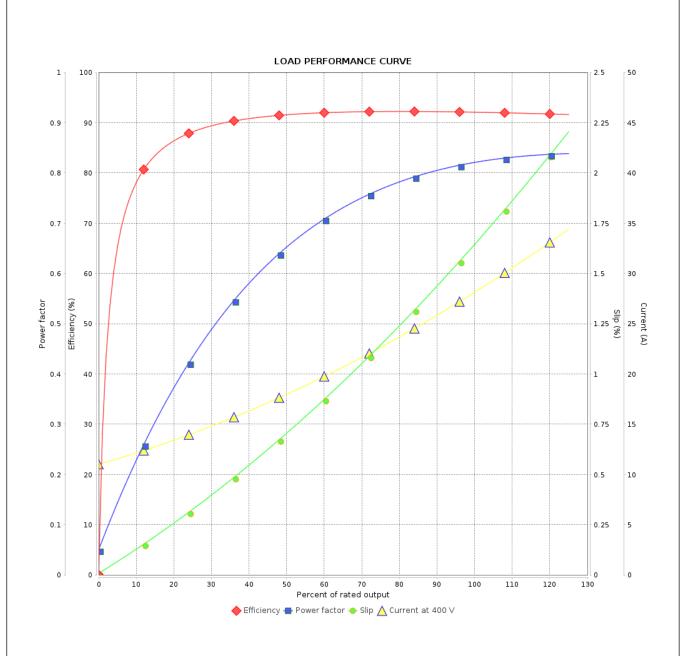
Product code:

15825712

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	: 28.7 A : 6.7 : 9.84 kgfm : 240 % : 290 % : 1475 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class actor	: 0.1563 kgm : Cont.(S1) : F : 1.00 : 80 K : B	2
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Checked by				Page	Revision

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### Three Phase Induction Motor - Squirrel Cage



Customer :

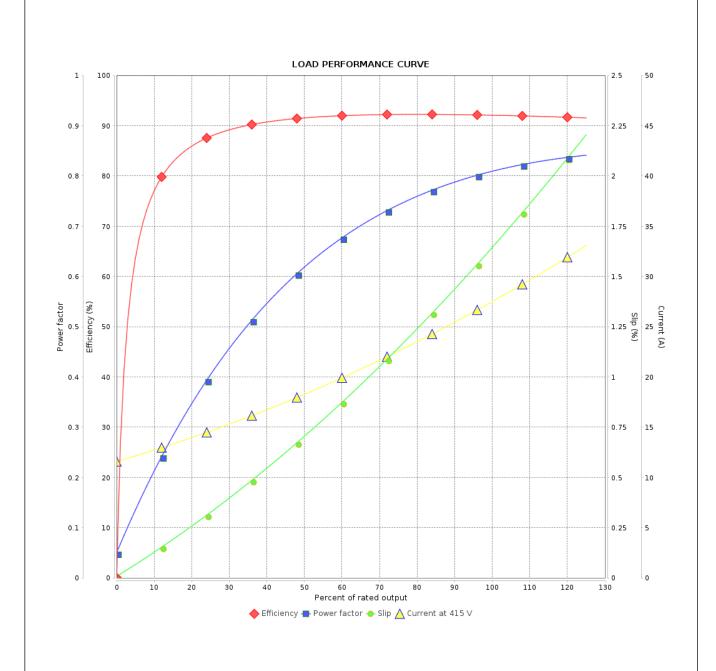
Checked by

Date

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Product line : W40 NEMA Premium Efficiency Three- Product code : 15825712

Phase



Performance : 415 V 50 Hz 4P IE3  Rated current : 28.0 A LRC : 7.1 Rated torque : 9.84 kgfm Locked rotor torque : 270 % Breakdown torque : 300 % Rated speed : 1475 rpm					
		Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.1563 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
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