DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-Product code: 14495057

Frame : 284TC Cooling method : IC01 - ODP

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 : 161 kg Protection degree : IP23 Moment of inertia (J) : 0.1563 kgm²

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 [RPN	/ []	1770	1470	1475	1475
Slip [%]		1.67	2.00	1.67	1.67
Rated torque [kgfr	n]	10.3	9.87	9.84	9.84
Locked rotor torque [%]		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	-		55s (cold) 31s (hot)	55s (cold) 31s (hot)	55s (cold) 31s (hot)
Noise level ²		64.0 dB(A)			
	25%	92.8	91.5	91.5	91.5
Efficiency (%)	50%	93.0	91.7	91.7	91.7
Efficiency (70)	75%	93.6	92.1	92.1	92.1
	100%	93.6	92.1	92.1	92.1
Power Factor	25%	0.46	0.45	0.42	0.39
	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 Drive end Foundation loads 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.

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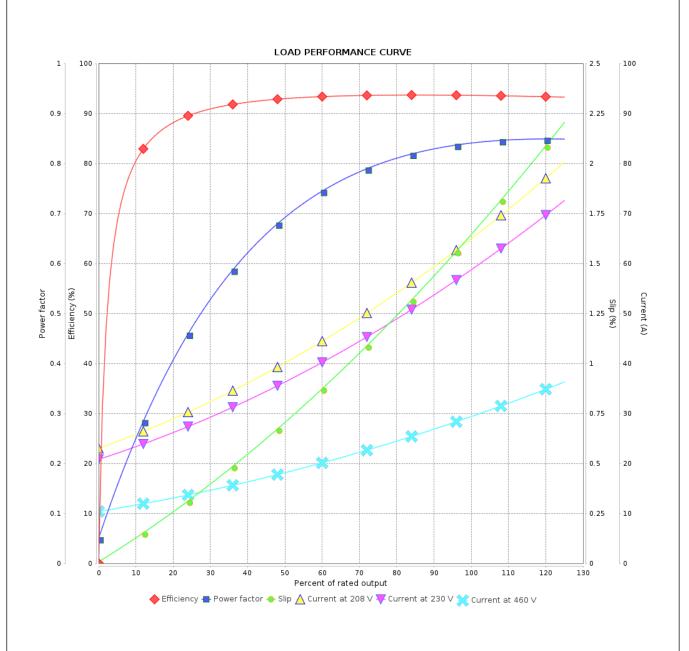
Customer

Product line : W40 NEMA Premium Efficiency Three-

Product code:

14495057

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Performance	: 230/460 V 60 Hz 4P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 59.0/29.5 A : 6.3 : 10.3 kgfm : 229 % : 270 % : 1770 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1563 kgm ² : Cont.(S1) : F : 1.25 : 80 K : B	: F : 1.25 : 80 K	
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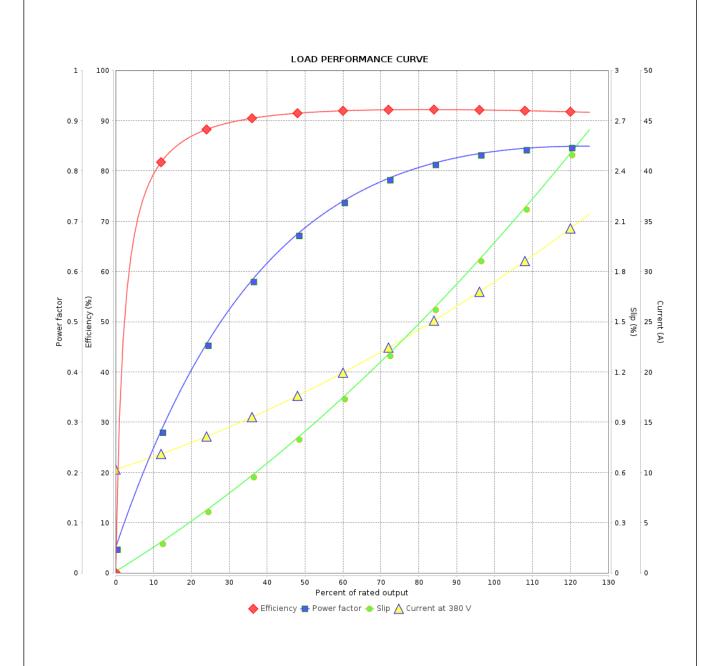


Customer :

Product line : W40 NEMA Premium Efficiency Three- Pr

Phase

Product code: 14495057



Performance	: 3	80 V 50 Hz 4P IE3					
Rated current :		9.5 A Moment of inertia (J)		: 0.1563 kgm²			
LRC	: 5	.8	Duty cycle		: Cont.(S1)		
Rated torque	: 9	.87 kgfm	Insulation class		: F		
Locked rotor torq	jue : 2:	20 %	Service fa	Service factor		: 1.00	
Breakdown torque		70 % Temperature rise		: 80 K			
Rated speed	: 1	470 rpm	Design		: B		
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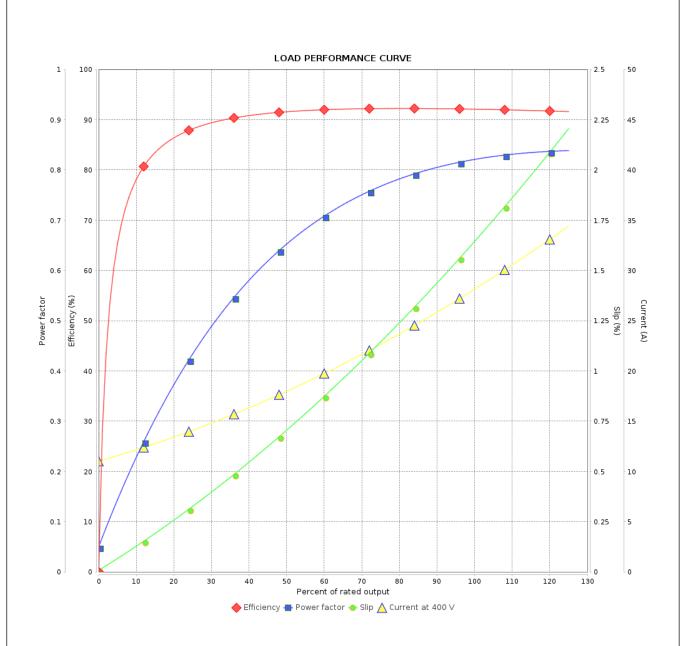
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Performance : 400 V 50 Hz 4P IE3 : 0.1563 kgm² Rated current : 28.7 A Moment of inertia (J) **LRC** Duty cycle : Cont.(S1) : 6.7 Insulation class Rated torque : 9.84 kgfm : F Locked rotor torque : 240 % Service factor : 1.00 Breakdown torque : 290 % Temperature rise : 80 K Rated speed : 1475 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

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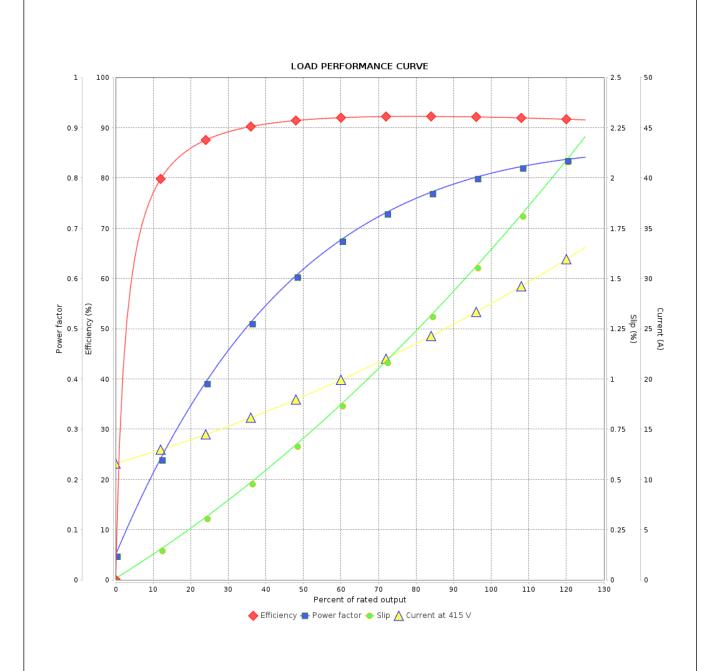


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Customer :

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

Phase



Performance	: 4	: 415 V 50 Hz 4P IE3						
Rated current LRC		.0 A Moment of inertia (J) Duty cycle		: 0.1563 kgm² : Cont.(S1)				
Rated torque Locked rotor torque		84 kgfm 70 %	Service fa	Insulation class Service factor				
Breakdown torque Rated speed		300 % Temperature rise Design		ure rise	: 80 K : B			
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