DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W40 NEMA Premium Efficiency Three-Product code: 14497426

Frame : 324/6TSC 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 : 222 kg Protection degree : IP23 Moment of inertia (J) : 0.1610 kgm²

Design		: B			
Output [HP]		60	50	50	50
Poles		2	2	2	2
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		144/71.8	69.8	68.7	69.5
L. R. Amperes [A]		905/453	384	412	452
LRC [A]		6.3x(Code G)	5.5x(Code F)	6.0x(Code G)	6.5x(Code H)
No load current [A]	40.0/20.0	18.5	22.0	25.0
Rated speed [RPN	/ []	3555	2955	2960	2960
Slip [%]		1.25	1.50	1.33	1.33
Rated torque [kgfn	Rated torque [kgfm]		12.3	12.3	12.3
Locked rotor torqu	Locked rotor torque [%]		220	240	260
Breakdown torque [%]		229	220	250	270
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)
Noise level ²		75.0 dB(A)			
	25%	91.7	88.8	89.0	89.2
Efficiency (%)	50%	92.4	90.5	90.6	90.7
Efficiency (70)	75%	93.0	92.0	92.1	92.2
	100%	93.6	93.7	93.7	93.7
	25%	0.51	0.53	0.46	0.40
Power Factor	50%	0.72	0.73	0.67	0.60
1 OWEL FACIOI	75%	0.81	0.82	0.77	0.72
	100%	0.84	0.86	0.83	0.79

Non drive end Drive end Foundation loads Bearing type 6312 Z C3 6211 Z C3 Max. traction Max. compression

Sealing Without Without Bearing Seal Bearing Seal

Lubrication interval 19658 h 20000 h Lubricant amount 11 g 21 g Mobil Polyrex EM Lubricant type

Notes USABLE @208V 157A SF 1.15 SFA 181A

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-

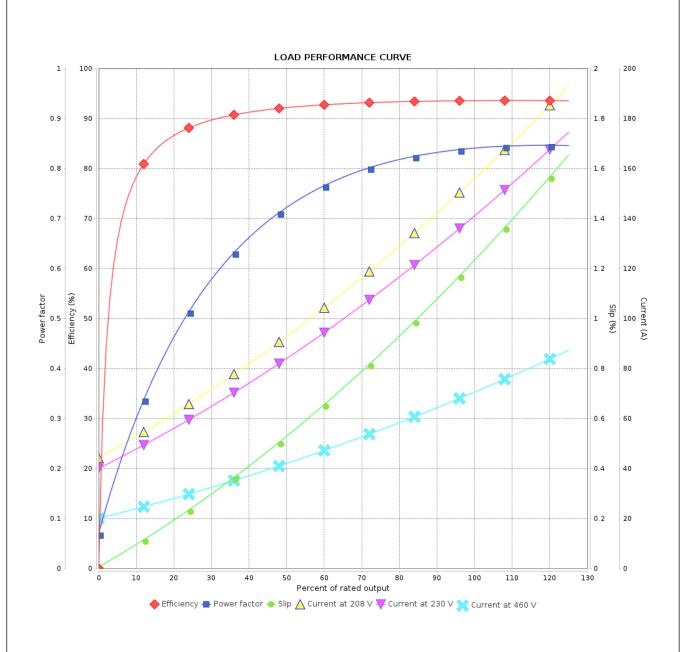
Product code:

14497426



22/10/2023

Date



Performance	: 230/460 V 60 Hz 2P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 144/71.8 A : 6.3 : 12.2 kgfm : 220 % : 229 % : 3555 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.1610 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 :

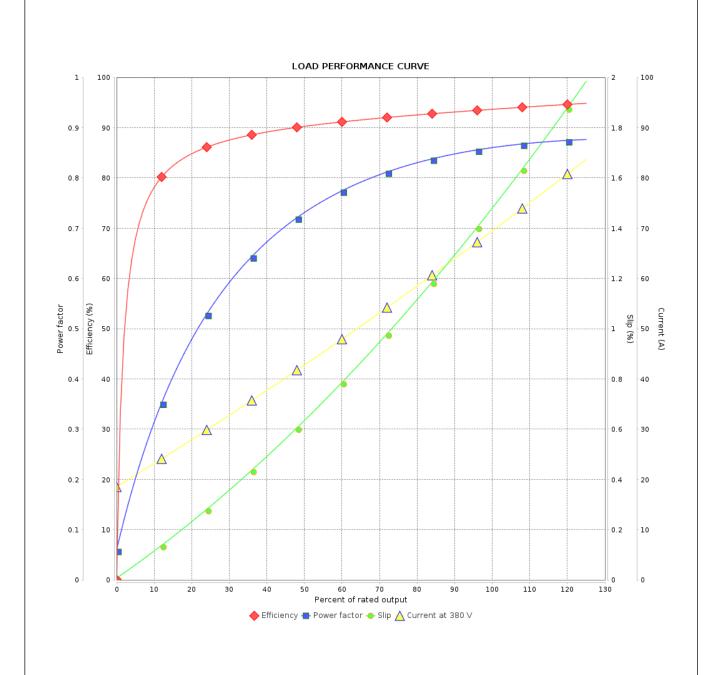
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Date

22/10/2023

Product line : W40 NEMA Premium Efficiency Three- Product code : 14497426

Phase



Performance	: 380 V 50 Hz 2P IE3	: 380 V 50 Hz 2P IE3						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 69.8 A : 5.5 : 12.3 kgfm : 220 % : 220 % : 2955 rpm	Moment of Duty cycle Insulation Service fa Temperation Design	class ctor	: 0.1610 kgm² : Cont.(S1) : F : 1.00 : 80 K : B				
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Revision

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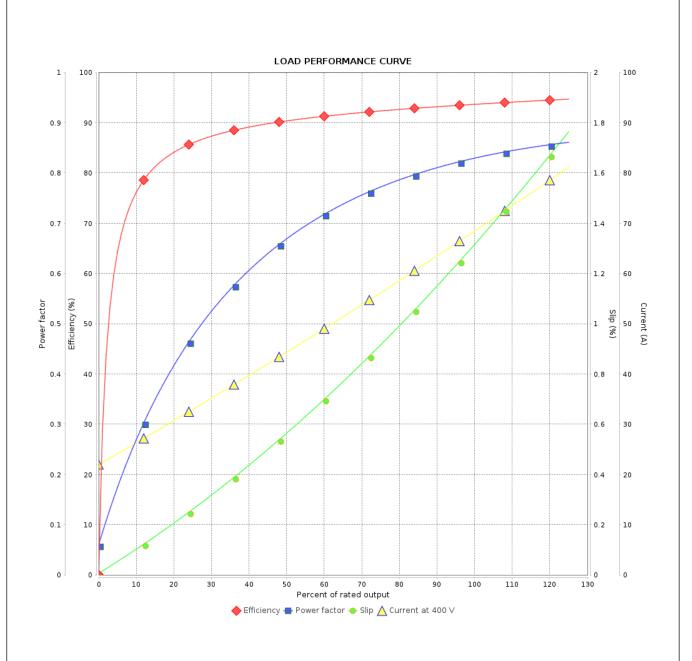
Customer :

Product line : W40 NEMA Premium Efficiency Three-

Product code:

14497426

Phase



Performance : 400 V 50 Hz 2P IE3						
Rated current : 6		68.7 A	Moment of	Moment of inertia (J)		2
LRC : 6.		3.0	Duty cycl	Duty cycle		
Rated torque :		12.3 kgfm	Insulation class		: Cont.(S1) : F	
		240 %	Service factor		: 1.00	
Breakdown torque		250 %	Temperat	Temperature rise		
Rated speed	: 2	960 rpm Design		: B		
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Three Phase Induction Motor - Squirrel Cage

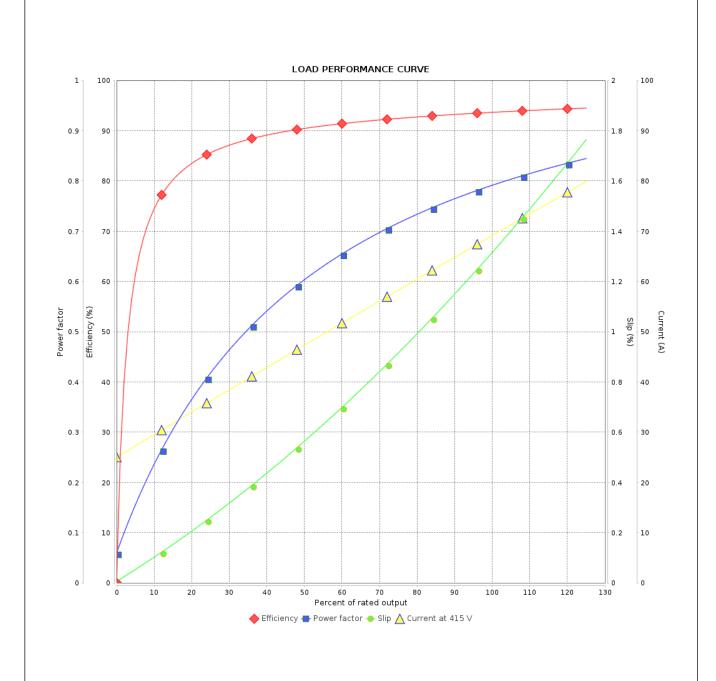


14497426

Customer :

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

Phase



Performance	: 4	: 415 V 50 Hz 2P IE3				
Rated current : 69		9.5 A	Moment o	Moment of inertia (J)		2
LRC : 6		5	Duty cycle		: Cont.(S1)	
Rated torque		2.3 kgfm	Insulation class		:F	
1		60 %	Service factor		: 1.00	
Breakdown torque		70 %	Temperature rise		: 80 K	
Rated speed	: 29	960 rpm Design		: B		
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