DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 IEEE 841 NEMA Premium Product code: 11431400

Efficiency Three-Phase

: 364/5T Frame Cooling method : IC411 - TEFC

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

Approx. weight³ Altitude : 1000 m.a.s.l. : 421 kg Protection degree : IP56 Moment of inertia (J) : 0.9798 kgm²

Design		: B		()	· ·
Output [HP]		75	75	75	75
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		87.2	106	102	98.7
L. R. Amperes [A]		558	542	569	602
LRC [A]		6.4x(Code G)	5.1x(Code E)	5.6x(Code F)	6.1x(Code G)
No load current [A	.]	33.0	33.0	35.0	38.0
Rated speed [RPN	Л]	1782	1475	1480	1480
Slip [%]		1.00	1.67	1.33	1.33
Rated torque [kgfr		30.5	36.9	36.8	36.8
Locked rotor torque [%]		220	170	180	200
Breakdown torque [%]		240	200	210	220
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	105 K
Locked rotor time	Locked rotor time		18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level ²		67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
	25%				
Efficiency (%)	50%	94.5	94.5	94.5	94.1
Efficiency (%)	75%	95.0	94.1	94.5	94.5
	100%	95.4	93.6	94.1	94.5
	25%				
Power Factor	50%	0.68	0.75	0.70	0.67
FUWEI FACIOI	75%	0.78	0.82	0.80	0.78
	100%	0.83	0.84	0.83	0.82
	•	Drive and Non dr	ive and Foundation les	nda	

Drive end Non drive end Foundation loads

6314 C3 Bearing type 6314 C3 Max. traction : 698 kgf Sealing Inpro/Seal Inpro/Seal Max. compression : 1119 kgf

Lubrication interval 12000 h 12000 h Lubricant amount 27 g Lubricant type Mobil Polyrex EM

Notes

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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Three Phase Induction Motor - Squirrel Cage

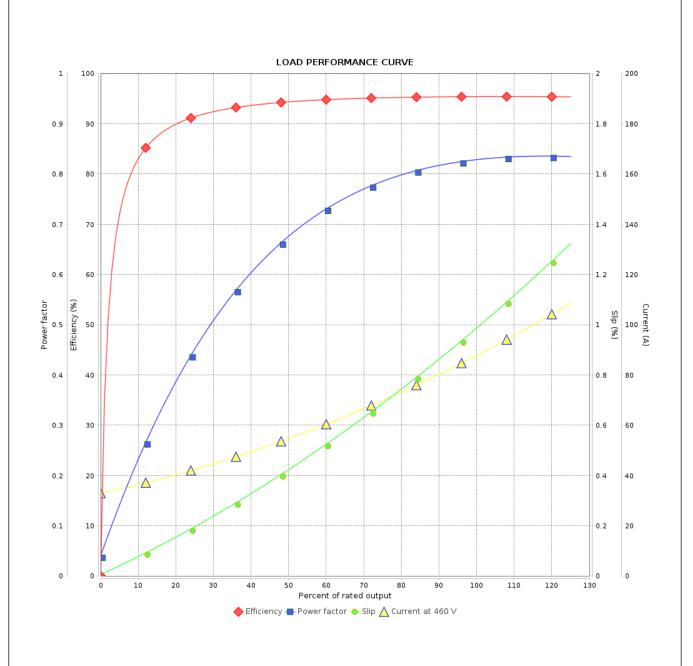


Customer :

Product line : W22 IEEE 841 NEMA Premium

Efficiency Three-Phase

Product code: 11431400



							
Performance	: 460 V 60 Hz 4P						
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 87.2 A : 6.4 : 30.5 kgfm : 220 % : 240 % : 1782 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9798 kgm² : Cont.(S1) : F : 1.25 : 80 K : B			
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Three Phase Induction Motor - Squirrel Cage



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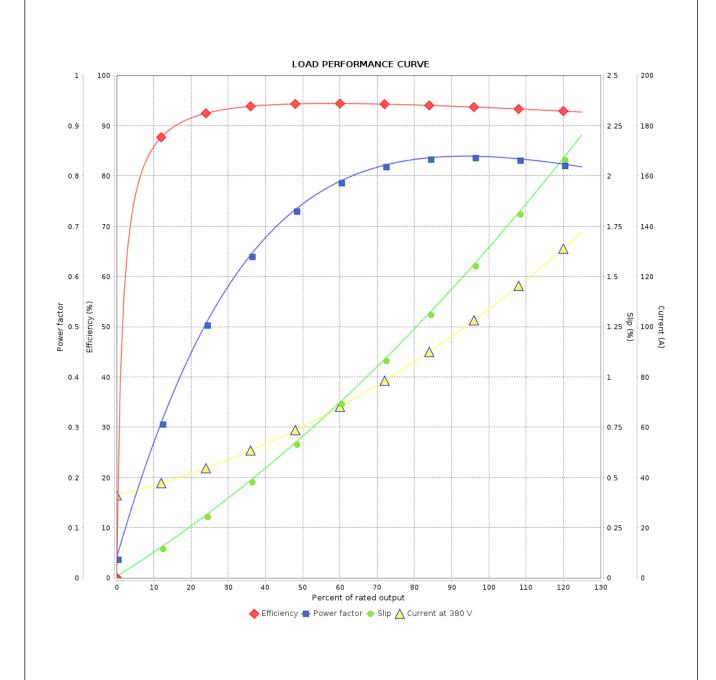
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Product line : W22 IEEE 841 NEMA Premium

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Performance	: 380 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 106 A : 5.1 : 36.9 kgfm : 170 % : 200 % : 1475 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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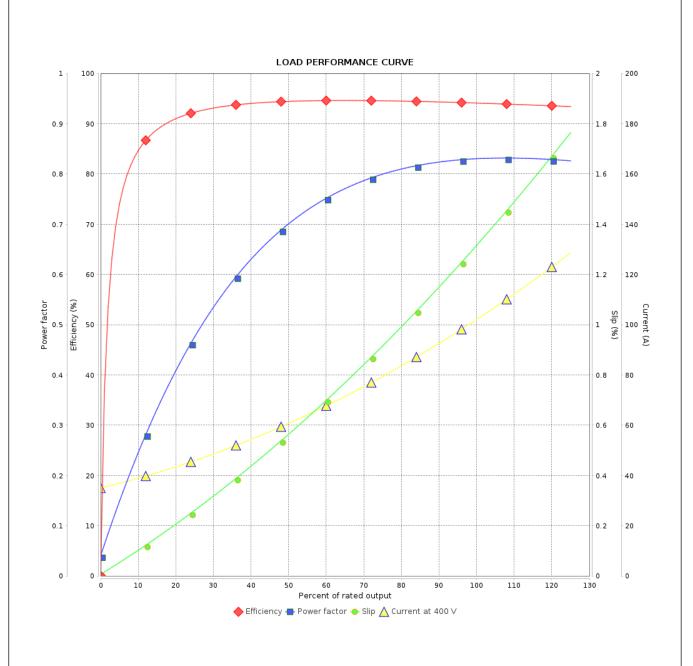


Customer :

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Efficiency Three-Phase

Product code: 11431400



D (400.17.50.11.40.150			
Performance	: 400 V 50 Hz 4P IE2			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 102 A : 5.6 : 36.8 kgfm : 180 % : 210 % : 1480 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 0.9798 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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Three Phase Induction Motor - Squirrel Cage

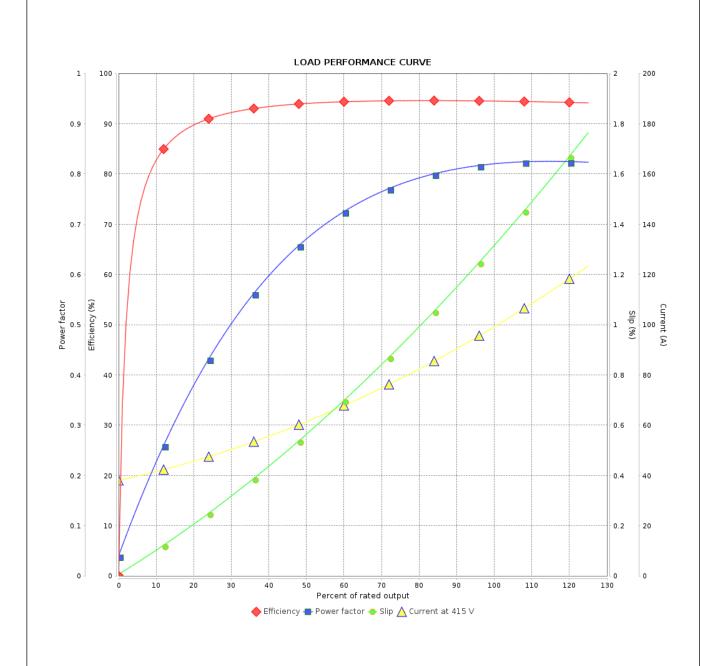


Customer :

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Product code: 11431400



Performance		: 415 V 50 Hz 4P IE2						
Rated current		8.7 A	Moment of inertia (J)		: 0.9798 kgm²			
LRC : 6		5.1	Duty cycle		: Cont.(S1)			
Rated torque	: 3	6.8 kgfm	Insulation class		:F			
Locked rotor torqu	ie : 2	.00 %	Service factor		: 1.00			
Breakdown torque		20 %	Temperature rise		: 105 K			
Rated speed	: 1	480 rpm	Design		: B			
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