DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12424294

Three-Phase

Frame : 284/6TC Cooling method : IC411 - TEFC

Insulation class : F Mounting : 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 : 186 kg
Protection degree : IP56 Moment of inertia (J) : 0.2153 kgm²

Design		: B		. ,	· ·
Output [HP]		25	25	25	25
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		29.5	35.9	34.3	33.2
L. R. Amperes [A]		183	190	189	196
LRC [A]		6.2x(Code G)	5.3x(Code F)	5.5x(Code F)	5.9x(Code G)
No load current [A]	11.0	11.0	11.7	12.4
Rated speed [RPN	/ []	1770	1455	1460	1465
Slip [%]		1.67	3.00	2.67	2.33
Rated torque [kgfm]		10.3	12.5	12.4	12.4
Locked rotor torque [%]		240	180	200	220
Breakdown torque [%]		270	210	240	260
Service factor		1.25	1.00	1.00	1.00
Temperature rise		80 K	105 K	105 K	105 K
Locked rotor time		43s (cold) 24s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)
Noise level ²		63.0 dB(A)	61.0 dB(A)	61.0 dB(A)	61.0 dB(A)
	25%	91.7	92.9	92.8	92.2
Efficiency (%)	50%	92.4	92.4	92.4	92.4
Linciency (70)	75%	93.0	91.7	92.4	92.4
	100%	93.6	91.0	91.7	92.4
	25%	0.45	0.52	0.48	0.45
Power Factor	50%	0.70	0.76	0.73	0.70
1 OWCI I actor	75%	0.80	0.84	0.82	0.80
	100%	0.84	0.86	0.85	0.84

Losses at normative operating points (speed;torque), in percentage of rated output power

20000 h

200000 at normative operating points (operation que), in personnage of ration output person								
	P1 (0,9;1,0)	6.8	6.8	6.8	6.8			
	P2 (0,5;1,0)	5.8	5.8	5.8	5.8			
	P3 (0,25;1,0)	5.3	5.3	5.3	5.3			
Losses (%)	P4 (0,9;0,5)	3.1	3.1	3.1	3.1			
	P5 (0,5;0,5)	2.2	2.2	2.2	2.2			
	P6 (0,5;0,25)	1.4	1.4	1.4	1.4			
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0			

<u>Drive end</u> <u>Non drive end</u> Foundation loads

Bearing type : 6311 C3 6211 C3 | Max. traction : 368 kgf Sealing : Inpro/Seal | Inpro/Seal | Max. compression : 553 kgf

20000 h

Lubricant amount : 18 g 11 g Lubricant type : Mobil Polyrex EM

This revision replaces and cancel the previous one, which must be eliminated.

(1) Looking the motor from the shaft end.

Lubrication interval

- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.

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



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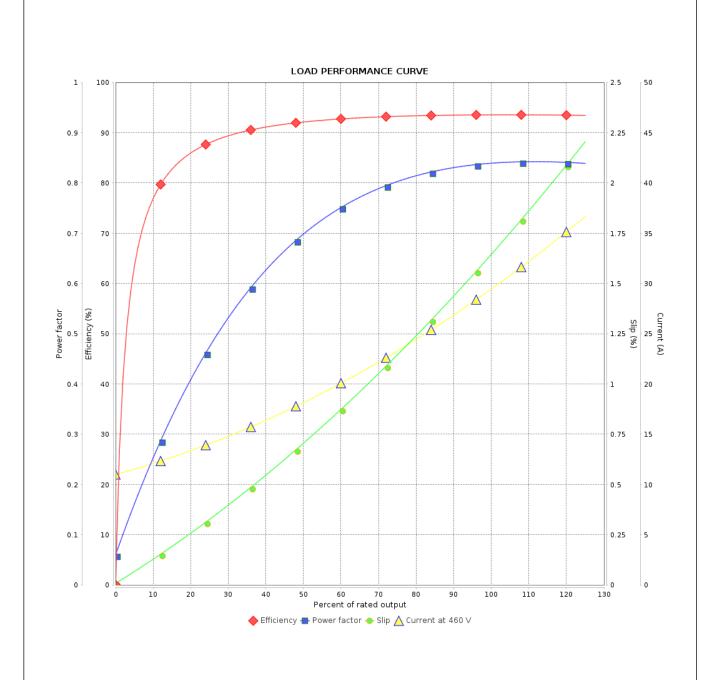
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13/01/2024

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12424294

Three-Phase



Performance	: 460 V 60 Hz 4	Р				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 29.5 A : 6.2 : 10.3 kgfm : 240 % : 270 % : 1770 rpm		Moment on Duty cycle Insulation Service fa Temperature	class ctor	: 0.2153 kgm² : Cont.(S1) : F : 1.25 : 80 K : B	2
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Three Phase Induction Motor - Squirrel Cage



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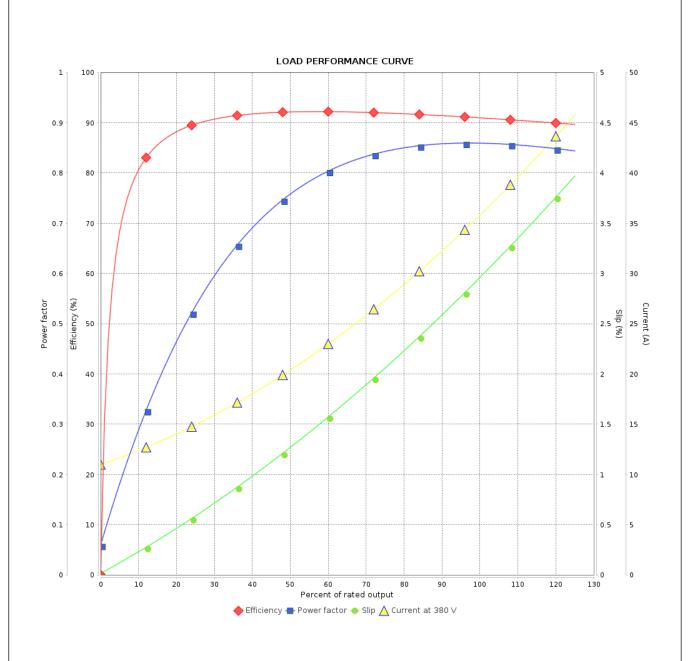
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Product code:

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Performance	: 380 V 50 Hz 4P IE1				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 35.9 A : 5.3 : 12.5 kgfm : 180 % : 210 % : 1455 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2153 kgm² : Cont.(S1) : F : 1.00 : 105 K : B	
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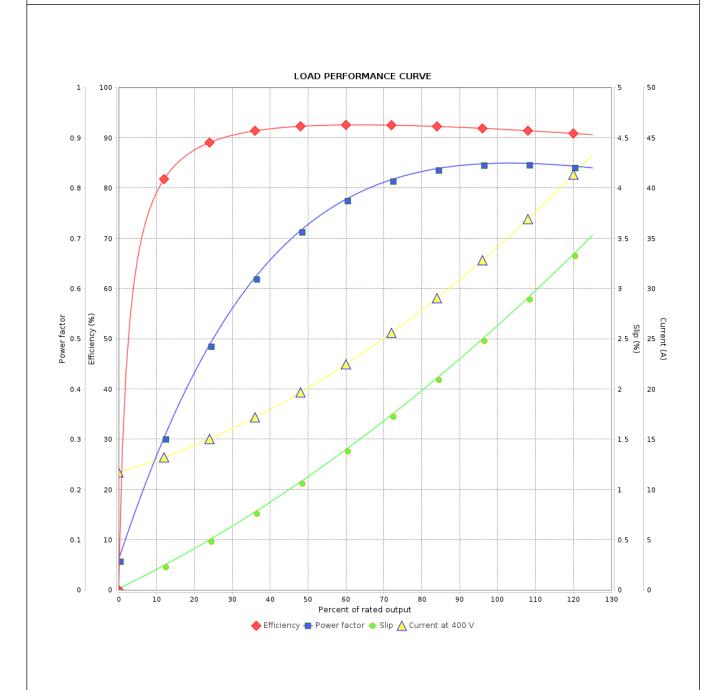
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product code : 12424294

Three-Phase



Performance	. 7	400 V 50 Hz 4P IE2					
Rated current		34.3 A				: 0.2153 kgm²	
LRC	: 5.5 Duty cycle		` '	: Cont.(S1)			
Rated torque		12.4 kgfm	Insulation		: F		
Locked rotor torque		200 %	Service factor		: 1.00		
Breakdown torque	· ·		ıre rise	: 105 K			
Rated speed		1460 rpm	Design		: B		
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Three Phase Induction Motor - Squirrel Cage

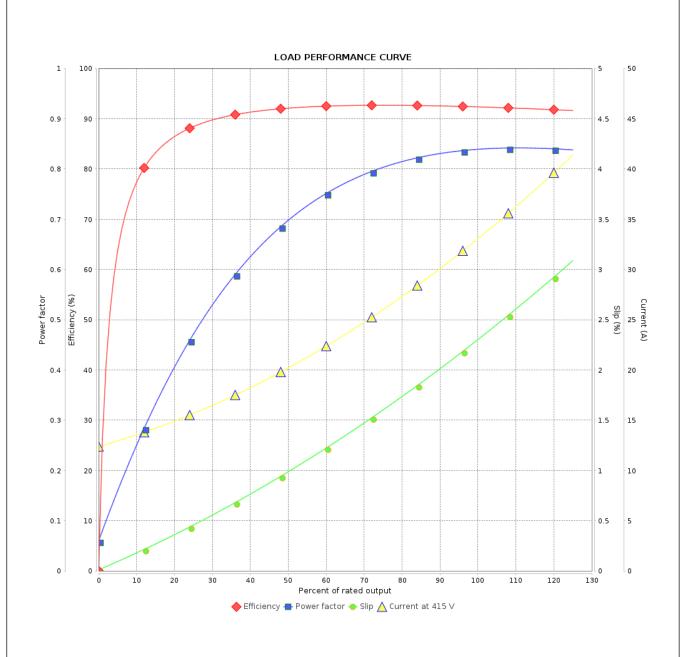


Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Product

Three-Phase

Product code: 12424294



Performance	: 415 V 50 Hz 4P IE2				
Rated current LRC Rated torque Locked rotor torque	: 33.2 A : 5.9 : 12.4 kgfm : 220 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 0.2153 kgm ² : Cont.(S1) : F : 1.00	
Breakdown torque Rated speed	: 260 % : 1465 rpm			: 105 K : B	
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