### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 11166720

Phase

Frame : 504/5T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

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

Altitude : 1000 m.a.s.l. Approx. weight³ : 1116 kg

Protection degree : IP55 Moment of inertia (J) : 3.21 kgm²

Design : B

Design		: B			
Output [HP]		200	200	200	200
Poles		4	4	4	4
Frequency [Hz]		60	50	50	50
Rated voltage [V]		230/460	380	400	415
Rated current [A]		456/228	273	263	253
L. R. Amperes [A]		2873/1436	1338	1447	1493
LRC [A]		6.3x(Code G)	4.9x(Code D)	5.5x(Code F)	5.9x(Code F)
No load current [A]		130/65.0	64.0	69.0	72.0
Rated speed [RPM	1]	1788	1483	1485	1487
Slip [%]		0.67	1.13	1.00	0.87
Rated torque [kgfn		81.2	97.9	97.7	97.6
	Locked rotor torque [%]		170	190	210
Breakdown torque [%]		229	180	200	210
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		39s (cold) 22s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level <sup>2</sup>		75.0 dB(A)	71.0 dB(A)	71.0 dB(A) 71.0 dB(A)	
	25%				
Efficiency (%)	50%	95.4	95.4	95.4	95.4
Liliciency (70)	75%	96.2	95.8	95.8	95.8
	100%	96.2	95.8	95.8	95.8
	25%				
Power Factor	50%	0.75	0.80	0.77	0.75
I OWEI FACIOI	75%	0.83	0.85	0.84	0.83
	100%	0.86	0.87	0.86	0.86

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

Loodoo at nonnauv	o operating points (op	ood, to quo, iii porooi	nago or ratoa oatpat	POWO	
	P1 (0,9;1,0)	4.3	4.3	4.3	4.3
	P2 (0,5;1,0)	3.2	3.2	3.2	3.2
	P3 (0,25;1,0)	2.7	2.7	2.7	2.7
Losses (%)	P4 (0,9;0,5)	2.4	2.4	2.4	2.4
	P5 (0,5;0,5)	1.5	1.5	1.5	1.5
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6

Drive end Non drive end Foundation loads

Bearing type : NU-319 C3 6316 C3 Max. traction : 1055 kgf
Sealing : WSeal WSeal Max. compression : 2172 kgf

Lubrication interval : 5000 h 10000 h Lubricant amount : 45 g 34 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.
- (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.

Rev. Changes Summary Performed Checked Date

Performed by
Checked by
Date 13/01/2024
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# DATA SHEET

Checked by

Date

13/01/2024



Three Pha	se Induction Motor - Squirrel Cage			<u> ШЕЦ</u>
Customer	:			
Notes	√ 504A SF 1.00 SFA 504A			
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Revision

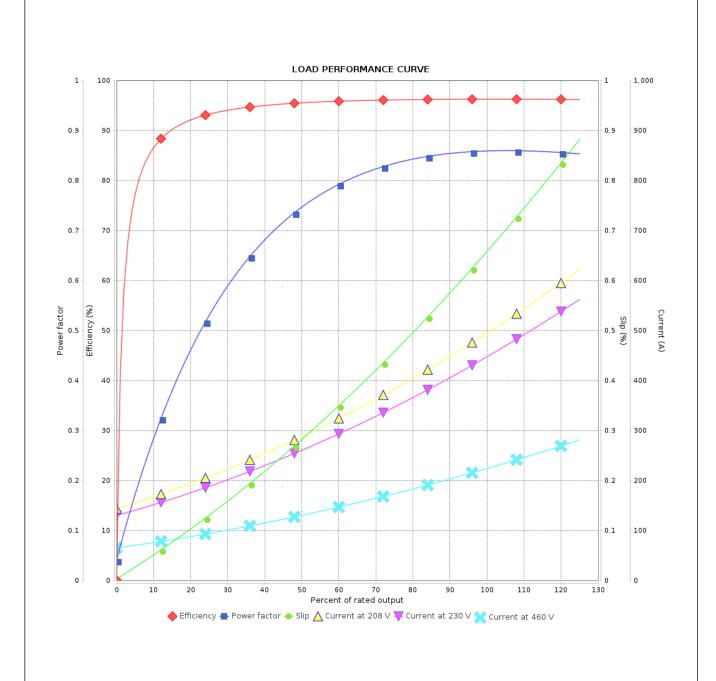
### Three Phase Induction Motor - Squirrel Cage



11166720

Customer

Product line : W22 NEMA Premium Efficiency Three-Product code:



Performance	: 2	30/460 V 60 Hz 4P				
Rated current : 456/2		56/228 A	Moment of	Moment of inertia (J)		
LRC : 6.3		.3	Duty cycle	Duty cycle		
Rated torque : 8		1.2 kgfm	Insulation class		: Cont.(S1) : F	
Locked rotor torque : 2		29 %	Service fa	actor	: 1.15	
Breakdown torque		29 %	Temperature rise		: 80 K	
Rated speed	: 1	788 rpm	Design		: B	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

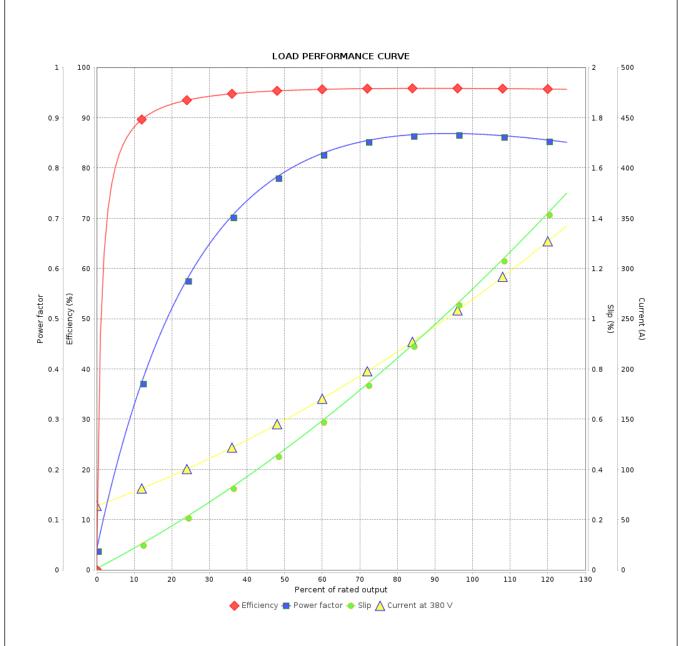
Product code:

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13/01/2024

Date



Performance	:	: 380 V 50 Hz 4P IE3						
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed		273 A 4.9 97.9 kgfm 170 % 180 % 1483 rpm	Duty cycle Insulation Service fa	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise				
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### Three Phase Induction Motor - Squirrel Cage

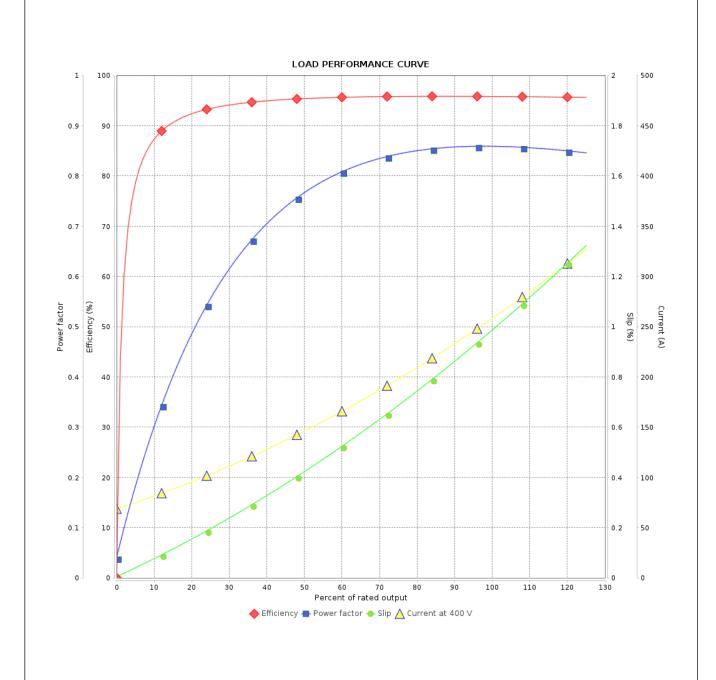


Customer :

Product line : W22 NEMA Premium Efficiency Three-

Phase

Product code: 11166720



Performance	: 4	: 400 V 50 Hz 4P IE3				
Rated current		263 A	Moment of inertia (J)		: 3.21 kgm²	
LRC :		5.5	Duty cycle	<b>;</b>	: Cont.(S1)	
Rated torque		97.7 kgfm	Insulation	class	: F	
Locked rotor torque		190 %	Service fa	ctor	: 1.00	
Breakdown torque	: 2	200 %	Temperature rise		: 80 K	
Rated speed	: 1	1485 rpm	Design	Design		
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

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Product line : W22 NEMA Premium Efficiency Three-

Product code:

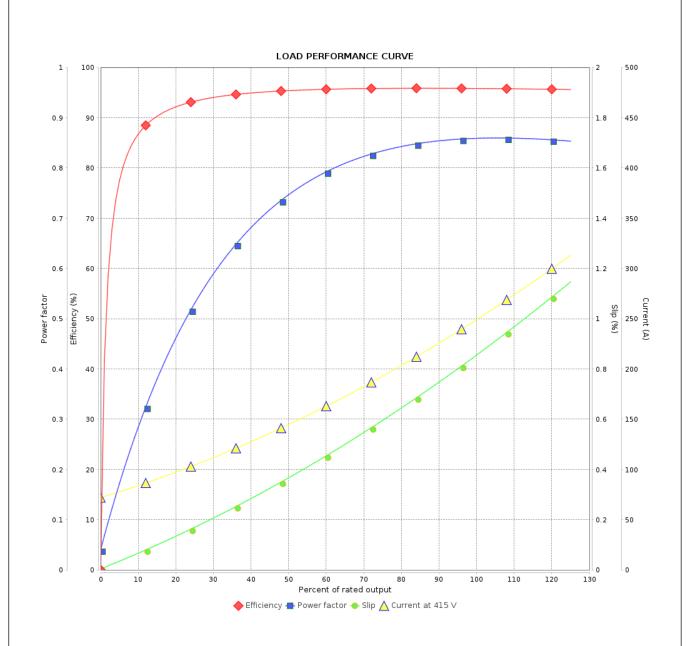
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Revision





Performance	rformance : 415 V 50 Hz 4P IE3					
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 5 : 9 jue : 2	53 A 5.9 17.6 kgfm 110 % 110 % 487 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 3.21 kgm <sup>2</sup> : Cont.(S1) : F : 1.00 : 80 K : B	
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