### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 13706424

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 : 1117 kg

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

Design : B

	: B				
	200	200	200	200	
	4	4	4	4	
	60	50	50	50	
	230/460	230/460 380		415	
Rated current [A] L. R. Amperes [A]		273	263	253	
	2873/1436	1338	1447	1493	
	6.3x(Code G)	4.9x(Code D)	5.5x(Code F)	5.9x(Code F)	
	130/65.0	64.0	69.0	72.0	
]	1788	1483	1485	1487	
	0.67	1.13	1.00	0.87	
Slip [%] Rated torque [kgfm]		97.9	97.7	97.6	
Locked rotor torque [%]		170	190	210	
Breakdown torque [%]		180	200	210	
Service factor		1.00	1.00	1.00	
Temperature rise		80 K	80 K	80 K	
Locked rotor time		27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
	75.0 dB(A)	71.0 dB(A)	71.0 dB(A)	71.0 dB(A)	
25%					
50%	95.4	95.4	95.4	95.4	
75%	96.2	95.8	95.8	95.8	
100%	96.2	95.8	95.8	95.4 95.8 95.8	
25%					
50%	0.75	0.80	0.77	0.75	
75%	0.83	0.85	0.84	0.83	
100%	0.86	0.87	0.86	0.86	
	25% 50% 75% 100% 25% 50% 75%	200  4 60 230/460 456/228 2873/1436 6.3x(Code G) 130/65.0 1788 0.67 1 81.2 2[%] 229 [%] 229 [%] 39s (cold) 22s (hot) 75.0 dB(A) 25% 50% 95.4 75% 96.2 100% 96.2 25% 50% 0.75 75% 0.83	200 200  4 4 4 4 60 50 230/460 380 456/228 273 2873/1436 1338 6.3x(Code G) 4.9x(Code D) 130/65.0 64.0 1] 1788 1483 0.67 1.13 1] 81.2 97.9 16 [%] 229 170 18 [%] 229 180 1.15 1.00 80 K 80 K 39s (cold) 22s (hot) 27s (cold) 15s (hot) 75.0 dB(A) 71.0 dB(A) 25% 50% 95.4 95.8 100% 96.2 95.8 25% 50% 0.75 0.80 75% 0.83 0.85	200 200 200 200  4 4 4 4 4 60 50 50 50 230/460 380 400 456/228 273 263 2873/1436 1338 1447 6.3x(Code G) 4.9x(Code D) 5.5x(Code F) 130/65.0 64.0 69.0 1] 1788 1483 1485 0.67 1.13 1.00 1] 81.2 97.9 97.7 16 [%] 229 170 190 1(%] 229 180 200 1.15 1.00 1.00 80 K 80 K 80 K 80 K 39s (cold) 22s (hot) 27s (cold) 15s (hot) 75.0 dB(A) 71.0 dB(A) 25% 50% 95.4 95.4 95.4 75% 96.2 95.8 95.8 100% 96.2 95.8 95.8 25% 50% 0.75 0.80 0.77 75% 0.83 0.85 0.84	

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

Lococo at normative	operating pointe (op-	oou,torquo), poroo.	nago or ratou output	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

Bearing type : 6319 C3 6316 C3 Foundation loads

Max. traction

Bearing type : 6319 C3 6316 C3 Max. traction : 1055 kgf
Sealing : WSeal WSeal Max. compression : 2172 kgf
Lubrication interval : 8000 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.

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Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			1/6	

# 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			
OSABLE @2009	V 304A 31 1.00 31 A 304A			
Rev.	Changes Summary	Performed	Checked	Date
Performed by				

Page

2/6

Revision

### Three Phase Induction Motor - Squirrel Cage

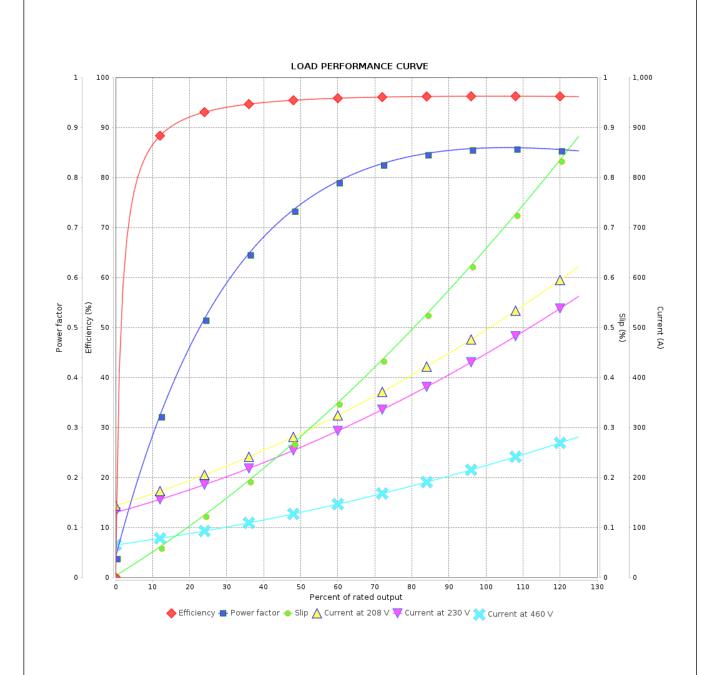


13706424

Customer :

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

Phase



Performance	: 2	30/460 V 60 Hz 4P				
Rated current		Moment of inertia (J)		: 3.21 kgm²		
LRC	: 6	.3	Duty cycle	!	: Cont.(S1)	
Rated torque	: 8	1.2 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 2	29 %	Service fa	ctor	: 1.15	
Breakdown torque : 229 % Tempera		Temperati	Temperature rise : 80 K			
Rated speed	: 1	788 rpm	Design		: B	
Rev.		Changes Summar	у	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				3/6	

### Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

13/01/2024

Product line : W22 NEMA Premium Efficiency Three-

Product code:

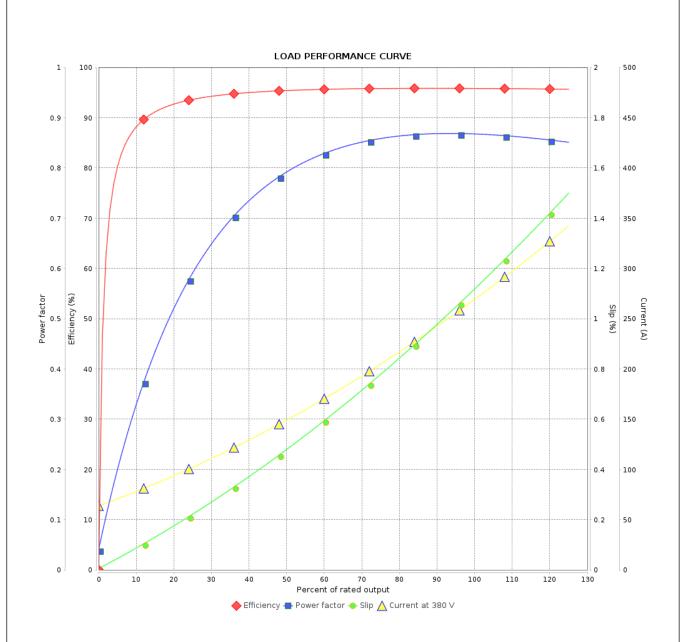
13706424

Page

4/6

Revision





Performance	: 3	80 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: 4 : 9 que : 1 ue : 1	73 A .9 7.9 kgfm 70 % 80 % 483 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	
Rev.		Changes Summary	1	Performed	Checked	Date
Performed by						

### Three Phase Induction Motor - Squirrel Cage

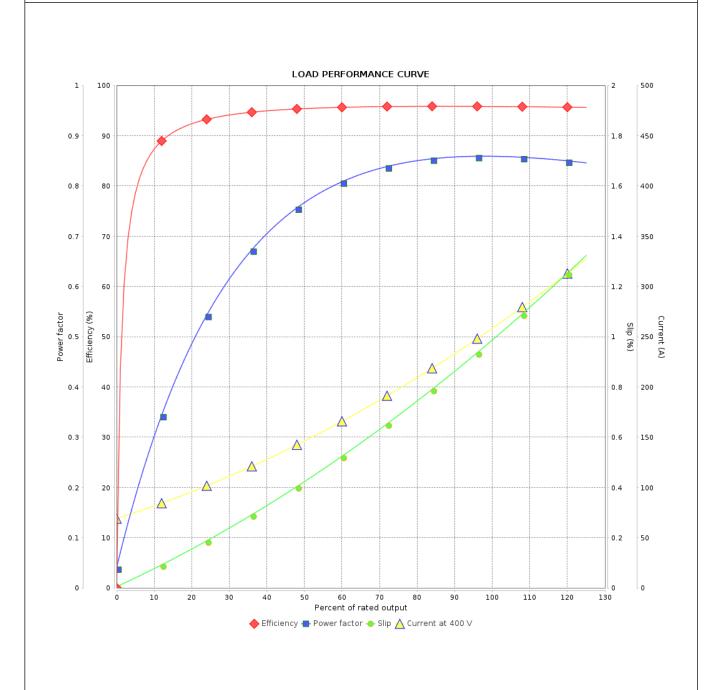


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Customer :

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

Phase



Performance	: 40	00 V 50 Hz 4P IE3				
Rated current		63 A 5	Moment of inertia (J)		: 3.21 kgm² : Cont.(S1)	
_		7.7 kgfm		Duty cycle Insulation class		
Locked rotor torque		90 % 00 %		Service factor Temperature rise		
Breakdown torque Rated speed		185 rpm	Design	ure rise	: 80 K : B	
Rev.		Changes Summar	У	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	13/01/2024				5/6	

### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

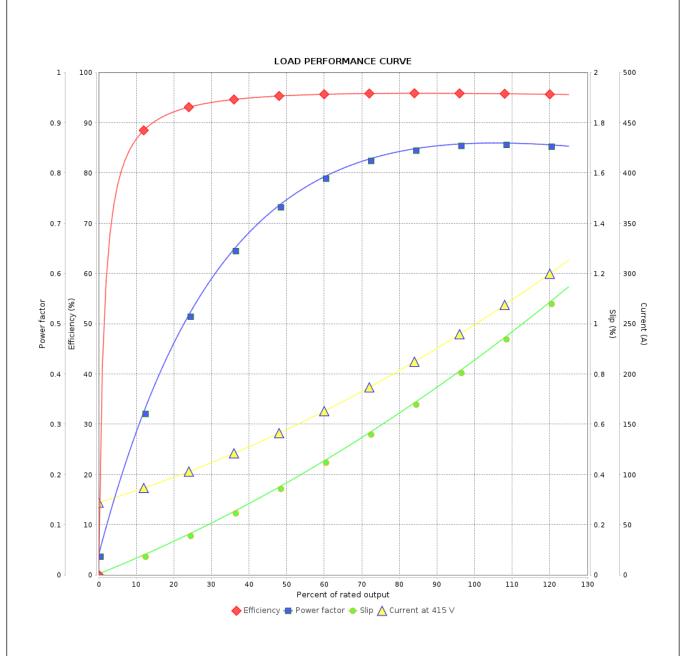
13706424

6/6

Phase

13/01/2024

Date



Performance	: 415 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 253 A : 5.9 : 97.6 kgfm : 210 % : 210 % : 1487 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 3.21 kgm² : Cont.(S1) : F : 1.00 : 80 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision