DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer

Product line : W22 NEMA Premium Efficiency Three-Product code: 12766401

: L447/9T Frame 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 : 1569 kg

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

	500 4 60 460 568 4998 8.8x(Code J) 225	450 4 50 380 606 4303 7.1x(Code G)	450 4 50 400 589 4712	450 4 50 415 582	
	60 460 568 4998 8.8x(Code J)	50 380 606 4303	50 400 589	50 415 582	
	460 568 4998 8.8x(Code J)	380 606 4303	400 589	415 582	
	568 4998 8.8x(Code J)	606 4303	589	582	
	4998 8.8x(Code J)	4303			
	8.8x(Code J)		4712	E 400	
		7.1x(Code G)	7/12	5122	
	225		8.0x(Code J)	8.8x(Code K)	
		222	245	267	
	1789	1487	1489	1490	
	0.61	0.87	0.73	0.67	
Rated torque [kgfm]		220	219	219	
Locked rotor torque [%]		270	300	320	
Breakdown torque [%]		260	290	310	
Service factor		1.00	1.00	1.00	
Temperature rise		125 K	125 K	105 K	
	39s (cold) 22s (hot)	37s (cold) 21s (hot)	34s (cold) 19s (hot)	32s (cold) 18s (hot)	
Noise level ²		74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	
%	95.4	95.8	95.4	95.4	
%	96.2	96.2	95.8	95.8	
2%	96.2	96.2	96.2	96.2	
%					
	0.72	0.74	0.70	0.66	
%	0.81	0.83	0.80	0.77	
0%	0.85	0.86	0.84	0.82	
	5% 0% 5% 0% 5% 0% 5%	0.61 203 300 280 1.00 105 K 39s (cold) 22s (hot) 79.0 dB(A) 9% 95.4 6% 96.2 0% 96.2 6% 0% 0.72 6% 0.81 0% 0.85	0.61 0.87 203 220 300 270 280 260 1.00 1.00 105 K 125 K 39s (cold) 22s (hot) 37s (cold) 21s (hot) 79.0 dB(A) 74.0 dB(A) 79.0 dB(A) 95.4 96.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2 96.2	0.61 0.87 0.73 203 220 219 300 270 300 280 260 290 1.00 1.00 1.00 105 K 125 K 125 K 39s (cold) 22s (hot) 37s (cold) 21s (hot) 34s (cold) 19s (hot) 79.0 dB(A) 74.0 dB(A) 74.0 dB(A) 6% 96.2 95.8 9% 96.2 96.2 96.2 96.2 95.8 9% 96.2 96.2 9% 96.2 96.2 9% 0.72 0.74 0.70 6% 0.81 0.83 0.80	

200000 at Hermative operating points (operating of interest output power							
	P1 (0,9;1,0)	4.5	4.5	4.5	4.5		
	P2 (0,5;1,0)	3.3	3.3	3.3	3.3		
Losses (%)	P3 (0,25;1,0)	2.7	2.7	2.7	2.7		
	P4 (0,9;0,5)	2.5	2.5	2.5	2.5		
	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 6322 C3 6319 C3 Max. traction : 5159 kgf Sealing WSeal WSeal Max. compression : 6729 kgf

Lubrication interval 6000 h 8000 h Lubricant amount 60 g 45 g Mobil Polyrex EM Lubricant type

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.

0 1					
Rev.		Changes Summary	Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	16/01/2024			1/6	

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



		- Wotor Oquiro	 		
Customer	:				
Nistas					
Notes					
					T
Rev.		Changes Summary	 Performed	Checked	Date
Performed by					1
Checked by				Page	Revision
Oncored by	40/04/0004			1 age	\GVISIOH

Three Phase Induction Motor - Squirrel Cage

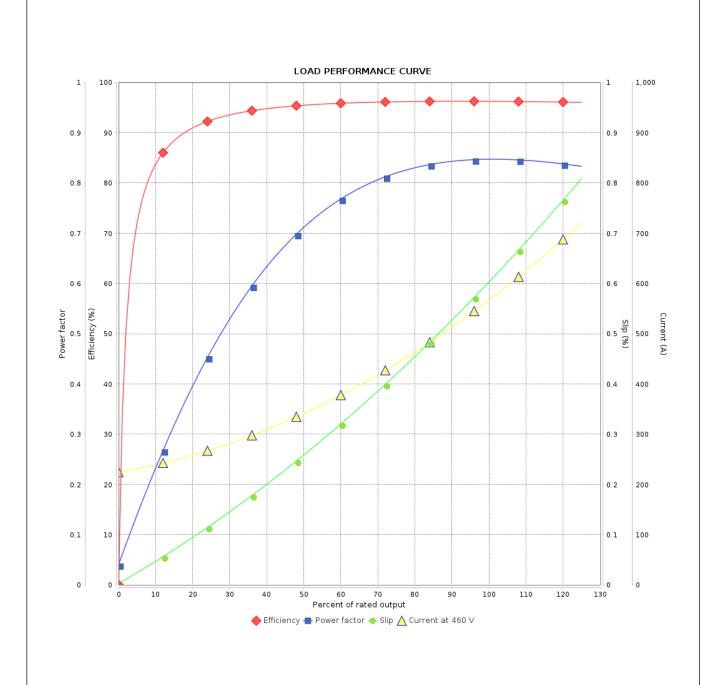


12766401

Customer :

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

Phase



Performance	:	460 V 60 Hz 4P				
Rated current		: 568 A Moment of inertia		f inertia (J)	: 6.73 kgm²	
LRC	:	8.8	Duty cycle)	: Cont.(S1)	
Rated torque	:	203 kgfm	Insulation	class	: F	
Locked rotor torque	e :	300 %	Service factor		: 1.00	
Breakdown torque	:	280 %	Temperature rise		: 105 K	
Rated speed	:	: 1789 rpm		Design		
Rev.		Changes Summary		Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	16/01/2024				3/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

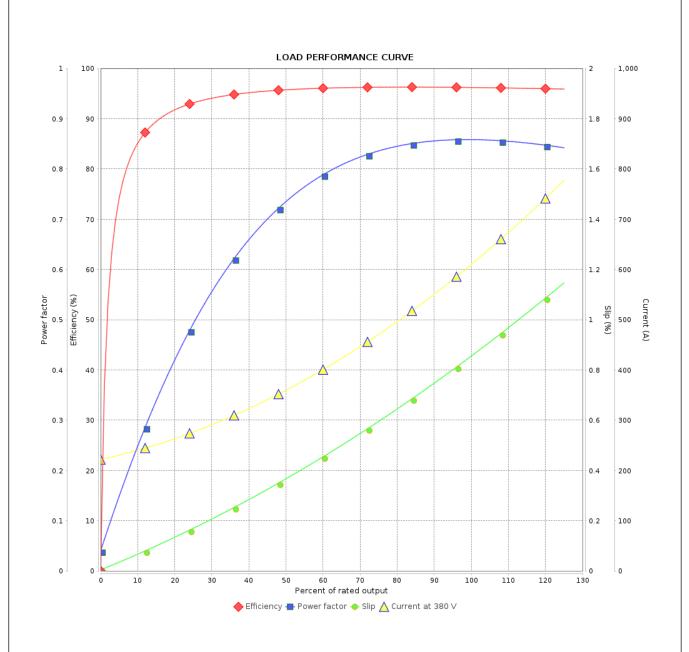
Product line : W22 NEMA Premium Efficiency Three-

Product code:

12766401

4/6





Performance	: 380 V 50 Hz 4P IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 606 A : 7.1 : 220 kgfm : 270 % : 260 % : 1487 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 6.73 kgm² : Cont.(S1) : F : 1.00 : 125 K : B	
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision

16/01/2024

Date

Three Phase Induction Motor - Squirrel Cage

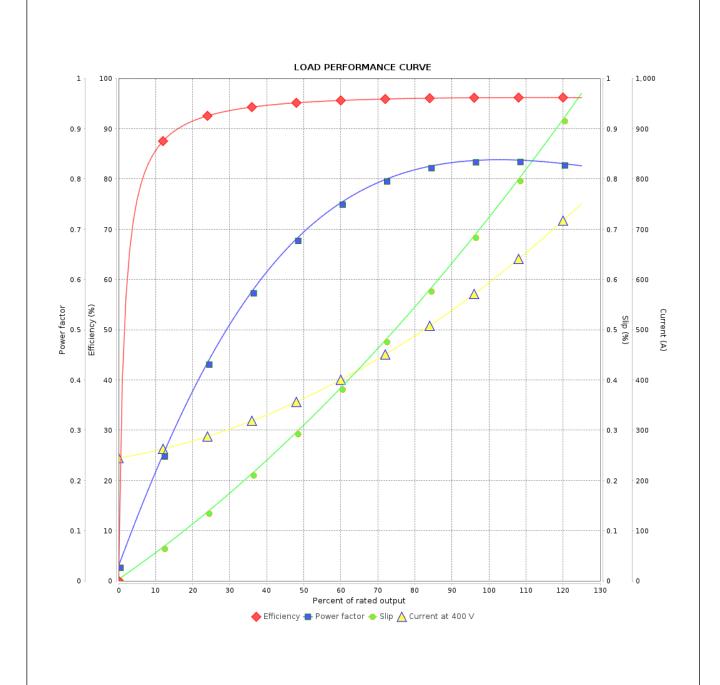


12766401

Customer :

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

Phase



Performance	: 4	: 400 V 50 Hz 4P IE3				
Rated current : 589 A		89 A	Moment o	Moment of inertia (J)		
LRC	: 8	3.0	Duty cycle	;	: Cont.(S1)	
Rated torque	: 2	19 kgfm	Insulation	class	: F	
Locked rotor torqu	ie : 3	800 %	Service factor		: 1.00	
Breakdown torque		90 %	Temperati	Temperature rise		
Rated speed	: 1	A489 rpm Design		: B		
Rev.		Changes Summa	ry	Performed	Checked	Date
Performed by						
Checked by					Page	Revision
Date	16/01/2024				5/6	

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

Product code:

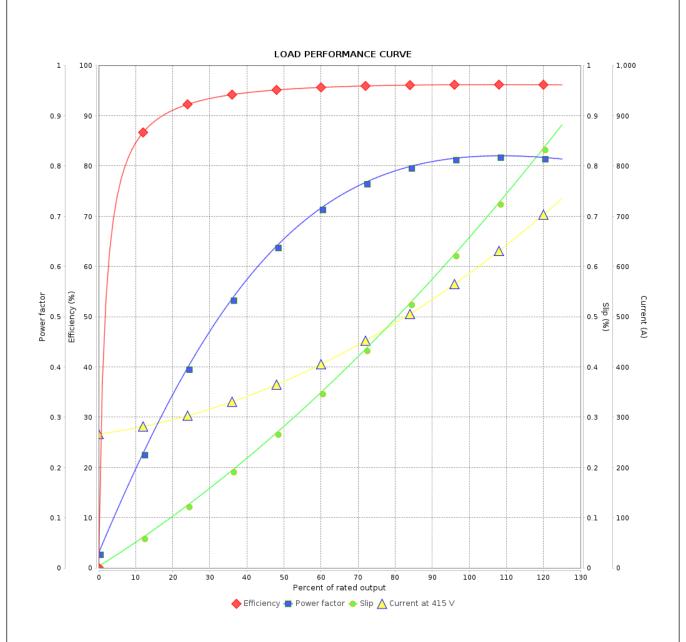
12766401

6/6



16/01/2024

Date



Performance	formance : 415 V 50 Hz 4P IE3				
Rated current	: 582 A	Moment of inertia (J)		: 6.73 kgm²	
LRC	: 8.8	Duty cycle		: Cont.(S1)	
Rated torque	: 219 kgfm	Insulation cl	ass	: F	
Locked rotor torque	: 320 %	Service factor		: 1.00	
Breakdown torque	: 310 %	Temperature rise		: 105 K	
Rated speed	: 1490 rpm	Design	Design		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision