### **DATA SHEET**

#### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 12762731

Phase

Frame : L447/9T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation<sup>1</sup> : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line
Altitude : 1000 m.a.s.l. Approx. weight³ : 1525 kg
Protection degree : IP55 Moment of inertia (J) : 6.40 kgm²

Design : A

Design		: A				
Output [HP]		450	400	400	400	
Poles		4 4		4	4	
Frequency [Hz]		60	50	50	50	
Rated voltage [V]		460	380	400	415	
Rated current [A]		513	564	549	542	
L. R. Amperes [A]		4566	4456	4721	4986	
LRC [A]		8.9x(Code K)	7.9x(Code J)	8.6x(Code K)	9.2x(Code K)	
No load current [A	]	215	215	232	255	
Rated speed [RPN	<b>/</b> 1]	1791	1489	1490	1490	
Slip [%]		0.50	0.73	0.67	0.67	
Rated torque [kgfn		182	195	195	195	
Locked rotor torqu	Locked rotor torque [%]		270	300	370	
Breakdown torque [%]		330	280	320	350	
Service factor	Service factor		1.00	1.00	1.00	
Temperature rise		80 K	105 K	105 K	105 K	
Locked rotor time		39s (cold) 22s (hot)	37s (cold) 21s (hot)	36s (cold) 20s (hot)	32s (cold) 18s (hot)	
Noise level <sup>2</sup>		79.0 dB(A)	74.0 dB(A)	74.0 dB(A) 74.0 dB(A)		
	25%					
Efficiency (%)	50%	95.4	95.8	95.4	95.4	
Liliciency (70)	75%	96.2	96.2	95.8	95.8	
	100%	96.2	96.2	96.2	96.2	
	25%					
Power Factor	50%	0.66	0.70	0.65	0.60	
1 OWELL ACIOI	75%	0.78	0.80	0.77	0.74	
	100%	0.84	0.84	0.82	0.80	

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

Loodoo at normativ	o operating points (op	oou,torquo), iii porooi	nago or ratoa oatpat	porro	
	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
	P3 (0,25;1,0)	2.7	2.7	2.7	2.7
Losses (%)	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

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

Bearing type : 6322 C3 6319 C3 Max. traction : 5203 kgf Sealing : WSeal WSeal Max. compression : 6728 kgf

Lubrication interval : 6000 h 8000 h Lubricant amount : 60 g 45 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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# DATA SHEET

#### Three Phase Induction Motor - Squirrel Cage



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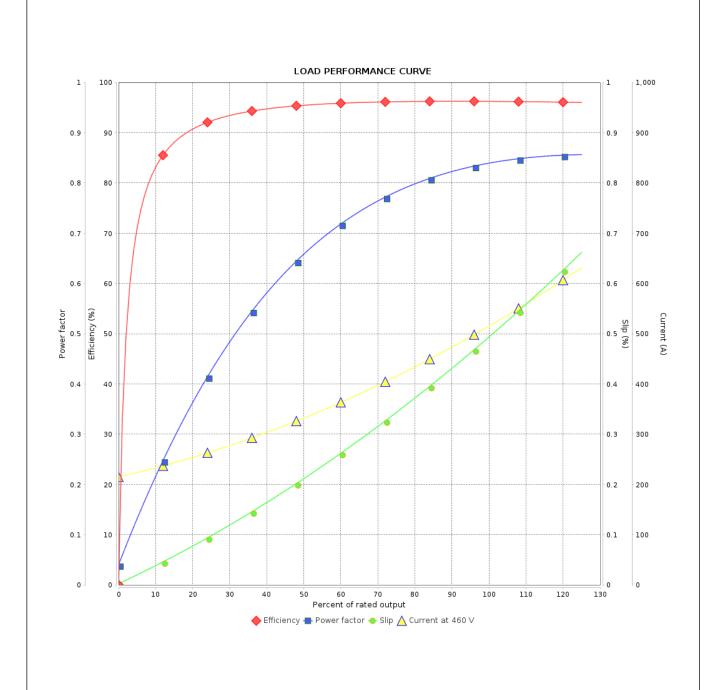
### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three- Product code : 12762731

Phase



Performance	: 46	60 V 60 Hz 4P				
Rated current	: 5′	13 A	Moment o	Moment of inertia (J)		
LRC		9	Duty cycle	9	: Cont.(S1)	
Rated torque	: 18	32 kgfm	Insulation	class	: F	
Locked rotor torqu	ue : 32	20 %	Service fa	ictor	: 1.15	
Breakdown torque	e : 33	30 %	Temperati	Temperature rise		
Rated speed	: 17	791 rpm	Design		: A	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-

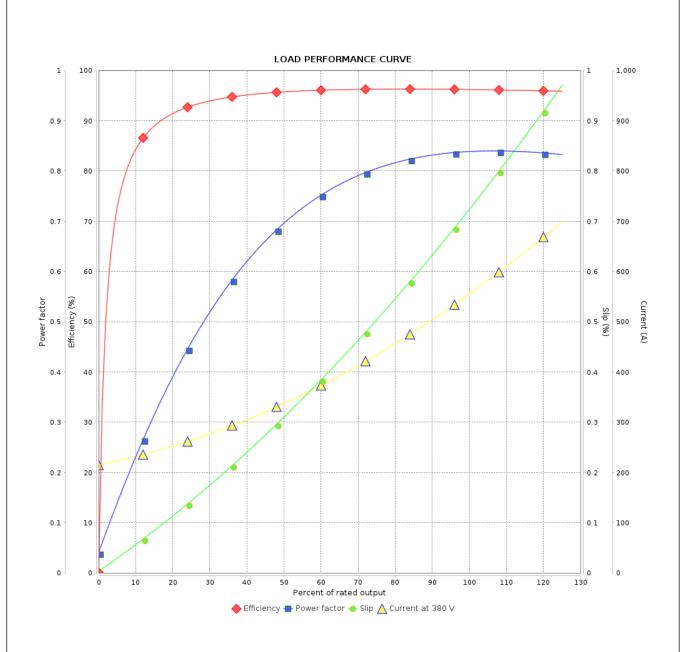
Product code:

12762731



13/01/2024

Date



Performance	: 380 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 564 A : 7.9 : 195 kgfm : 270 % : 280 % : 1489 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.40 kgm² : Cont.(S1) : F : 1.00 : 105 K : A	
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### Three Phase Induction Motor - Squirrel Cage

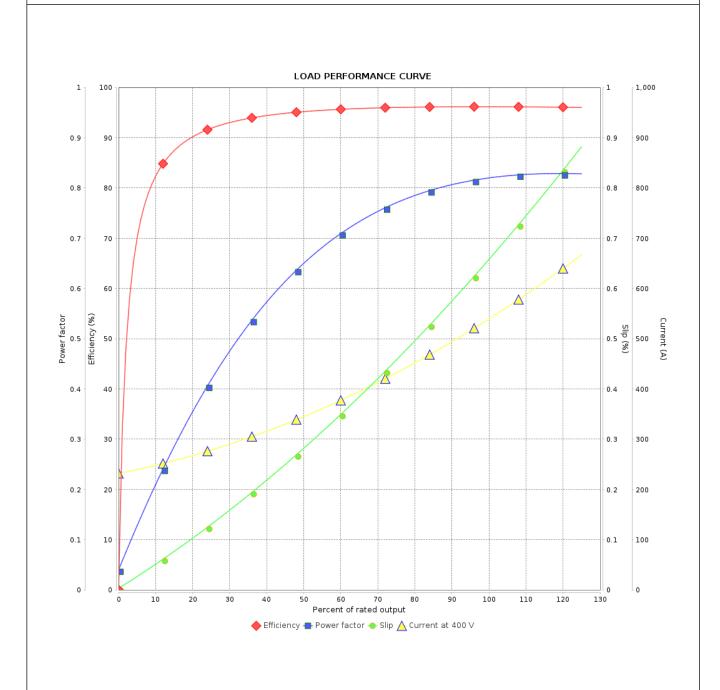


12762731

Customer :

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

Phase



Performance : 400 V 50 Hz 4P IE3						
Rated current	: 5	49 A Moment of inertia (J)		: 6.40 kgm²		
LRC	: 8	3.6	Duty cycle	<b>:</b>	: Cont.(S1)	
Rated torque			class	: F		
Locked rotor torque	e :3	300 %	· I		: 1.00	
Breakdown torque	: 3	320 %	Temperature rise		: 105 K	
Rated speed	: ′	1490 rpm	Design		: A	
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### Three Phase Induction Motor - Squirrel Cage



Customer :

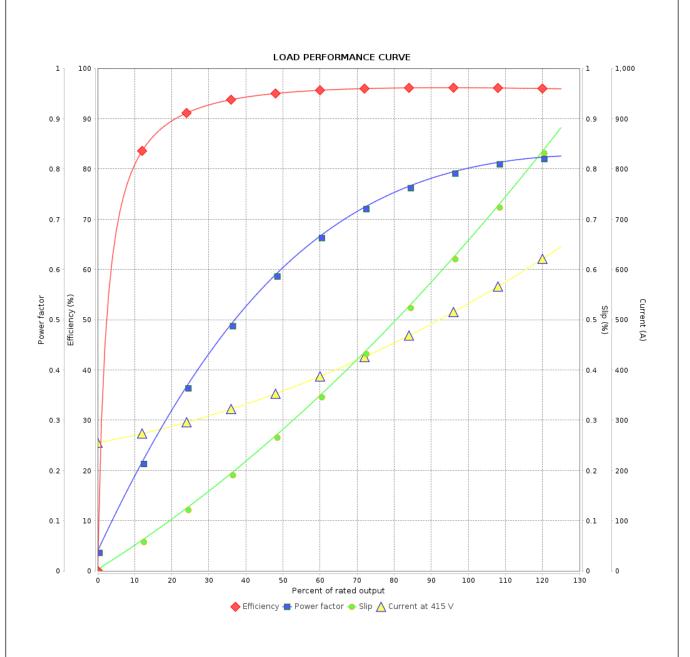
Product line : W22 NEMA Premium Efficiency Three-

Phase

13/01/2024

Date

Product code: 12762731



Performance	rformance : 415 V 50 Hz 4P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 542 A : 9.2 : 195 kgfm : 370 % : 350 % : 1490 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 6.40 kgm² : Cont.(S1) : F : 1.00 : 105 K : A	
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