

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 14597796

Frame	: 315L	Locked rotor time	: 77s (cold) 43s (hot)
Output	: 220 HP (160 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 187 A	Protection degree	: IP55
L. R. Amperes	: 1571 A	Cooling method	: IC411 - TEFC
LRC	: 8.4	Mounting	: B3L(E)
No load current	: 54.4 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3580 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 0.56 %	Starting method	: VFD
Rated torque	: 44.6 kgfm	Approx. weight ³	: 1317 kg
Locked rotor torque	: 270 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 2.99 kgm ²		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	94.1	95.0	95.4	Max. traction	: 570 kgf
Power Factor	0.00	0.81	0.88	0.90	Max. compression	: 1887 kgf

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

P1 (0,9;1,0)	P2 (0,5;1,0)	P3 (0,25;1,0)	P4 (0,9;0,5)	P5 (0,5;0,5)	P6 (0,5;0,25)	P7 (0,25;0,25)
4.6	2.7	1.9	3.4	1.6	1.3	0.6

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6314 C3	6314 C3
Sealing	:	WSeal	WSeal
Lubrication interval	:	4000 h	4000 h
Lubricant amount	:	27 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Notes:

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.
- (4) At 100% of full load.

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			Page	Revision
Date	15/01/2024		1 / 2	

LOAD PERFORMANCE CURVE

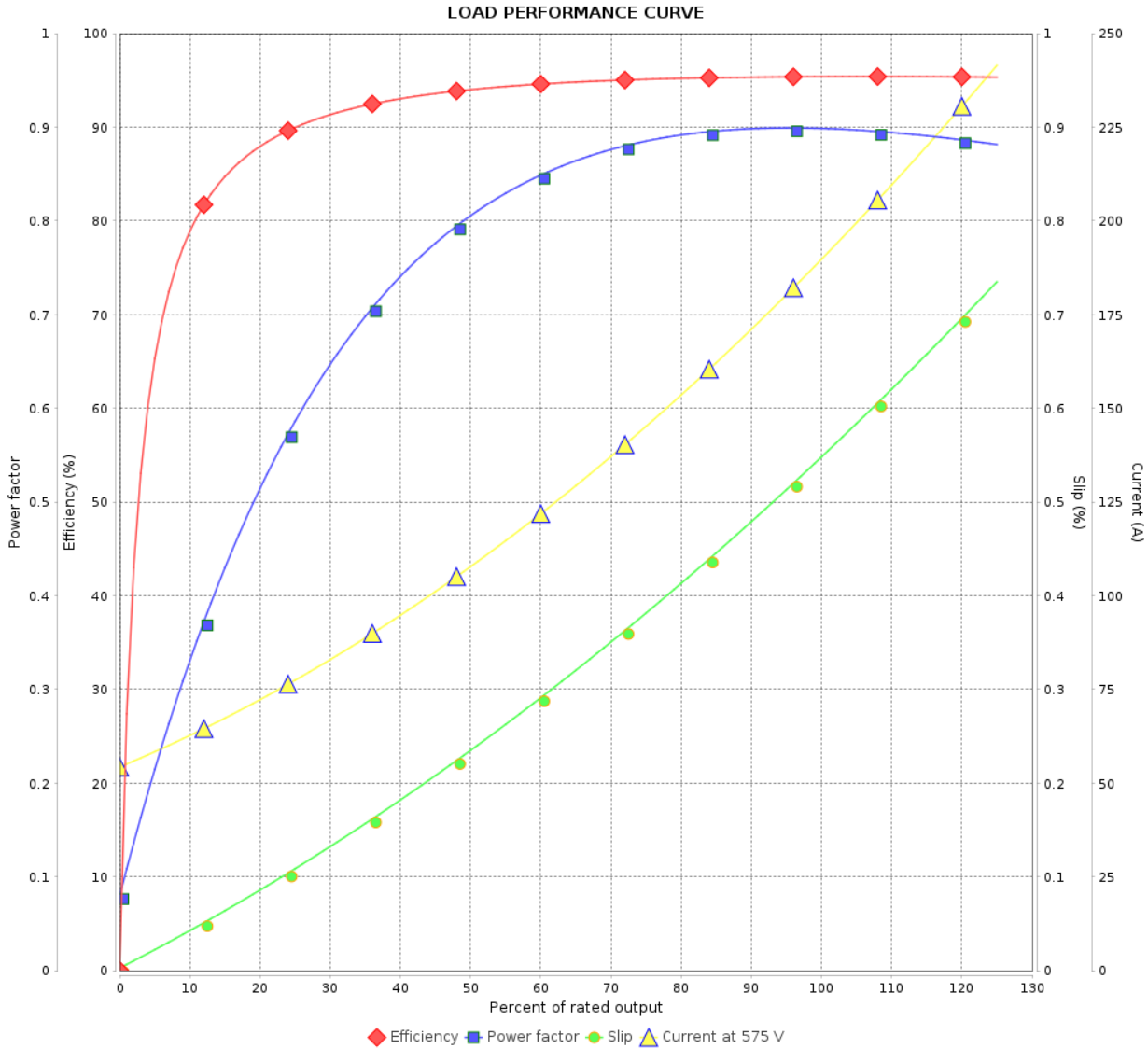
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase

Product code : 14597796



Performance : 575 V 60 Hz 2P

Rated current	: 187 A	Moment of inertia (J)	: 2.99 kgm ²
LRC	: 8.4	Duty cycle	: S1
Rated torque	: 44.6 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 3580 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	15/01/2024			