

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13443168

Frame	: 132S	Locked rotor time	: 70s (cold) 39s (hot)
Output	: 5.5 HP (4 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 5.41 A	Protection degree	: IP55
L. R. Amperes	: 54.6 A	Cooling method	: IC411 - TEFC
LRC	: 10.1	Mounting	: B3R(D)
No load current	: 2.58 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1765 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 1.94 %	Starting method	: Direct On Line
Rated torque	: 2.26 kgfm	Approx. weight ³	: 69.0 kg
Locked rotor torque	: 260 %		
Breakdown torque	: 430 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0528 kgm ²		
Design	: N		

Output	25%	50%	75%	100%	Foundation loads
Efficiency (%)	0.000	86.3	88.6	89.5	Max. traction : 145 kgf
Power Factor	0.00	0.65	0.76	0.83	Max. compression : 214 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)
12.9	11.2	10.5	6.3	4.4	3.0	2.2

	Drive end	Non drive end
Bearing type	: 6308 ZZ	: 6207 ZZ
Sealing	: V'Ring	: V'Ring
Lubrication interval	: 0 h	: 0 h
Lubricant amount	: 0 g	: 0 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				
Date	25/10/2024		Page 1 / 2	Revision

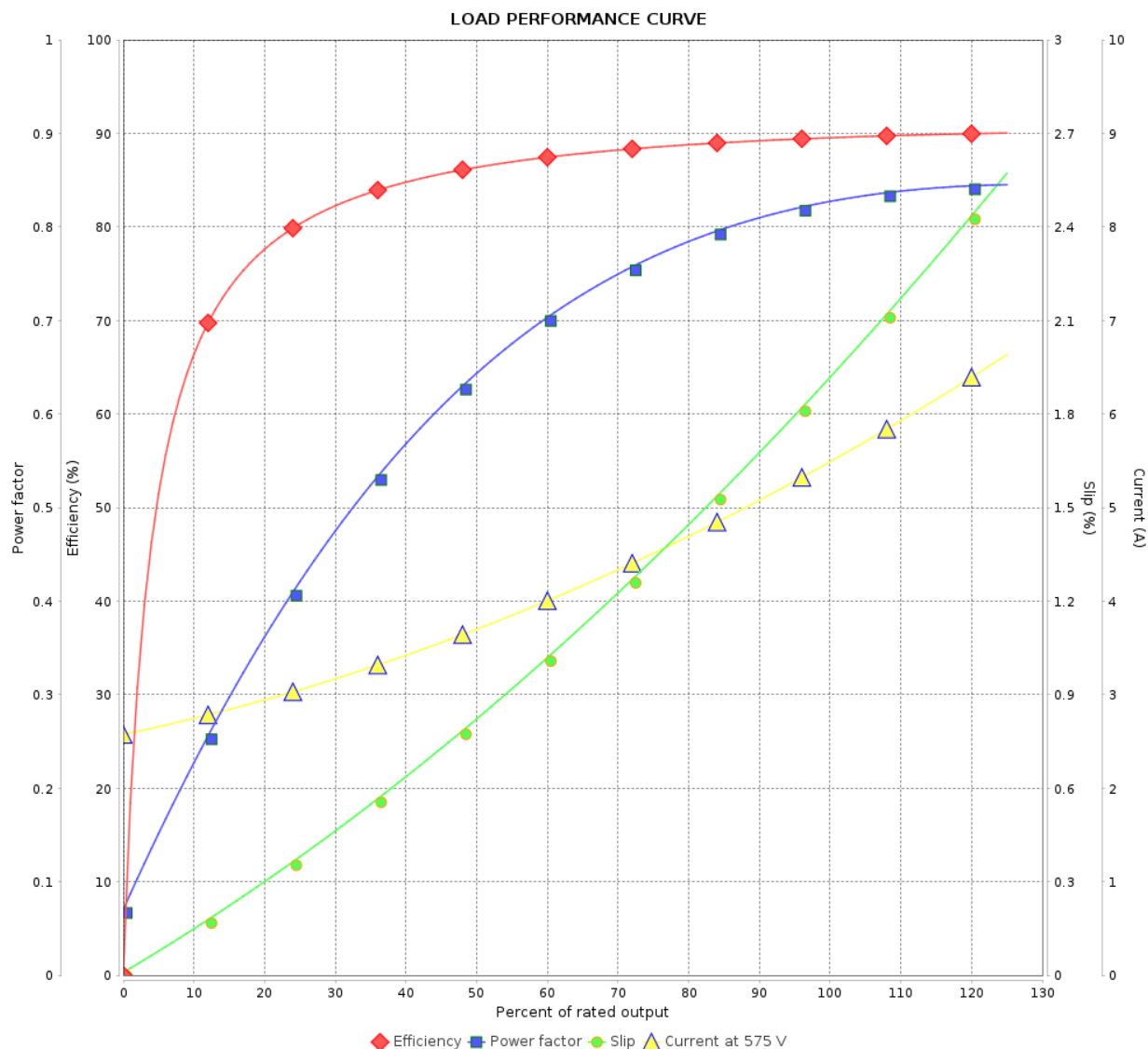
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 13443168



Performance : 575 V 60 Hz 4P

Rated current	: 5.41 A	Moment of inertia (J)	: 0.0528 kgm ²
LRC	: 10.1	Duty cycle	: S1
Rated torque	: 2.26 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.25
Breakdown torque	: 430 %	Temperature rise	: 80 K
Rated speed	: 1765 rpm	Design	: N

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2Revision		
Checked by				
Date	25/10/2024			