

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16430535

Frame	: 112M	Locked rotor time	: 23s (cold) 13s (hot)
Output	: 5.5 HP (4 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	: 5.46 A	Protection degree	: IP55
L. R. Amperes	: 51.9 A	Cooling method	: IC411 - TEFC
LRC	: 9.5	Mounting	: B35L(E)
No load current	: 2.56 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3520 rpm	Noise level ²	: 64.0 dB(A)
Slip	: 2.22 %	Vibration	: A
Rated torque	: 1 kgfm	Starting method	: Direct On Line
Locked rotor torque	: 300 %	Approx. weight ³	: 41.0 kg
Breakdown torque	: 440 %	Painting plan	: 207A (ISO 12944 - C3)
Insulation class	: F	Color	: RAL 5009
Service factor	: 1.25	Design	: N
Moment of inertia (J)	: 0.0080 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	85.5	87.5	88.5	Max. traction	: 84 kgf
Power Factor	0.65	0.76	0.83	Max. compression	: 125 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)
14.1	11.9	11.4	7.9	5.3	4.0	2.8

	Drive end	Non drive end
Bearing type	: 6207 ZZ	6206 ZZ
Sealing	: V'Ring	V'Ring
Lubrication interval	: -	-
Lubricant amount	: -	-
Lubricant type	00088	

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		Page Revision 1 / 2		
Checked by				
Date	02/10/2026			

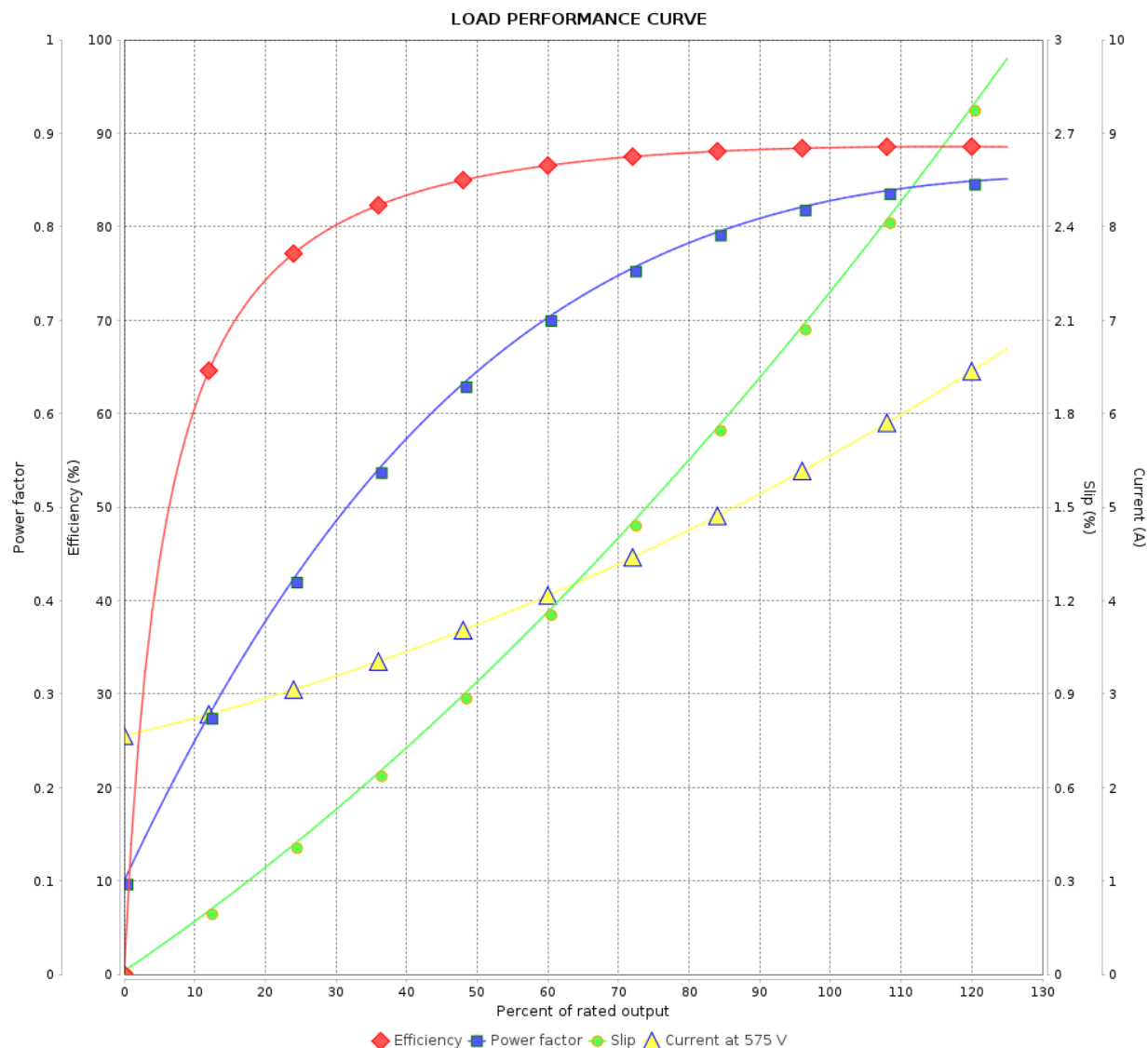
LOAD PERFORMANCE CURVE

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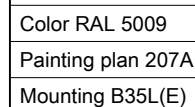
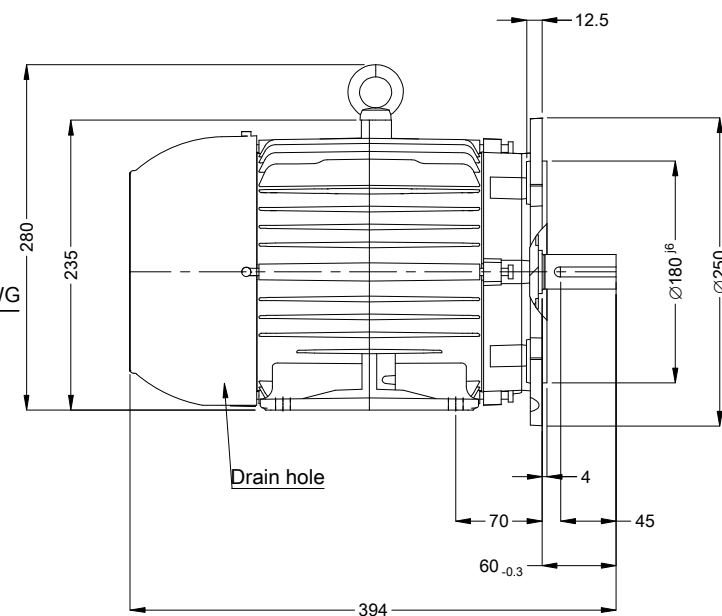


Performance : 575 V 60 Hz 2P

Rated current : 5.46 A
LRC : 9.5
Rated torque : 1 kgfm
Locked rotor torque : 300 %
Breakdown torque : 440 %
Rated speed : 3520 rpm

Moment of inertia (J) : 0.0080 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : N

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 2 / 2Revision		
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Date	02/10/2026			



5.5 HP 02 Poles 60 Hz										A
						Scale 1 : 6				
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	 THREE PH. MOTOR W22 IE3 FRAME 112M IP55 TEFC				PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE										
						SHEET		1 / 1		