

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12547922

Frame	: 112M	Locked rotor time	: 34s (cold) 19s (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	: 5.82 A	Protection degree	: IP55
L. R. Amperes	: 46.6 A	Cooling method	: IC411 - TEFC
LRC	: 8.0	Mounting	: B35L(E)
No load current	: 3.40 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1755 rpm	Noise level ²	: 56.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 2.27 kgfm	Approx. weight ³	: 48.9 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0182 kgm ²		
Design	: N		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	87.5	89.5	89.5	Max. traction	: 143 kgf
Power Factor	0.58	0.70	0.77	Max. compression	: 192 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)
11.2	9.4	9.2	6.3	4.5	3.4	2.6

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

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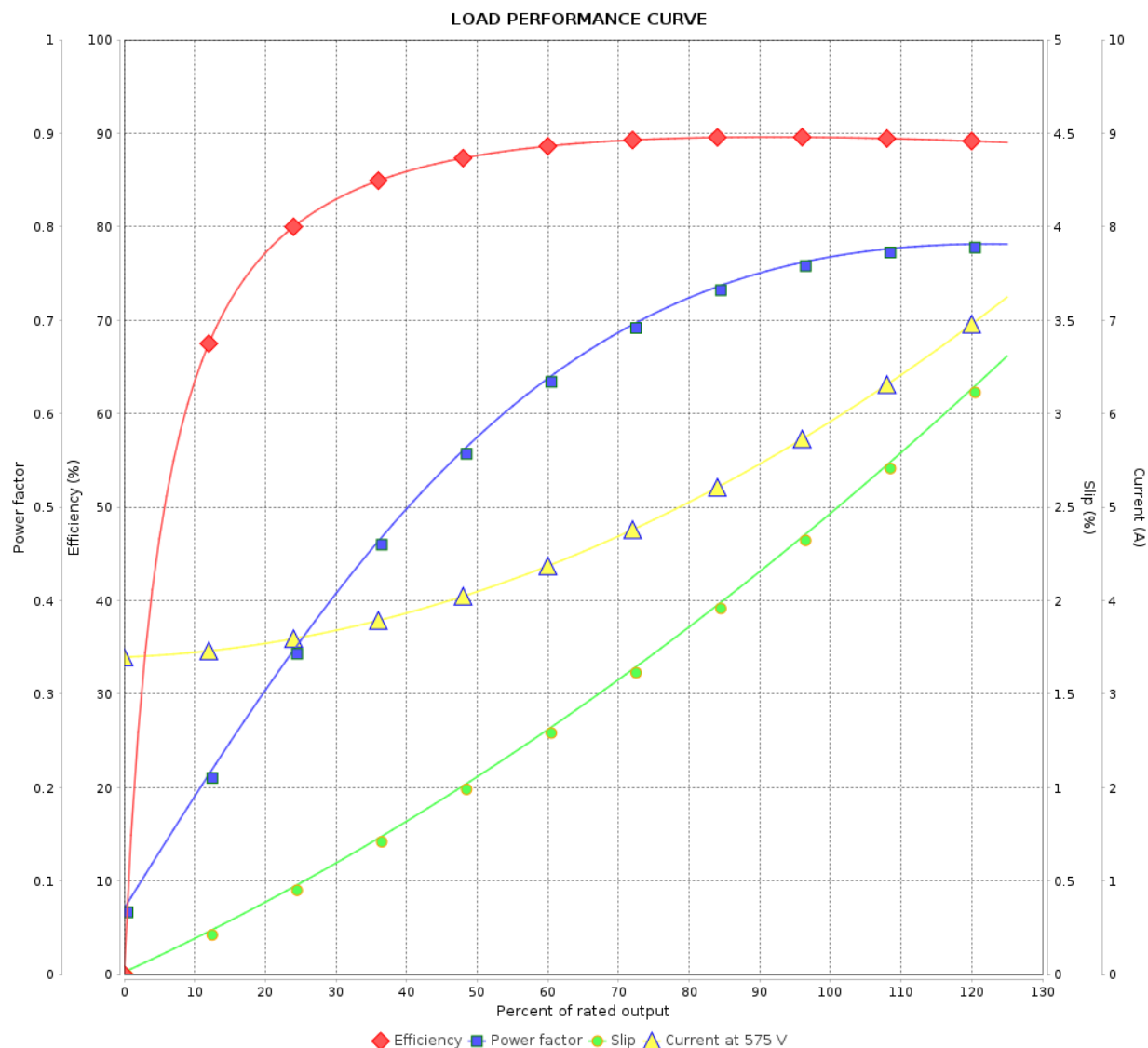
LOAD PERFORMANCE CURVE

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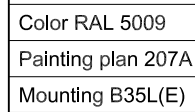
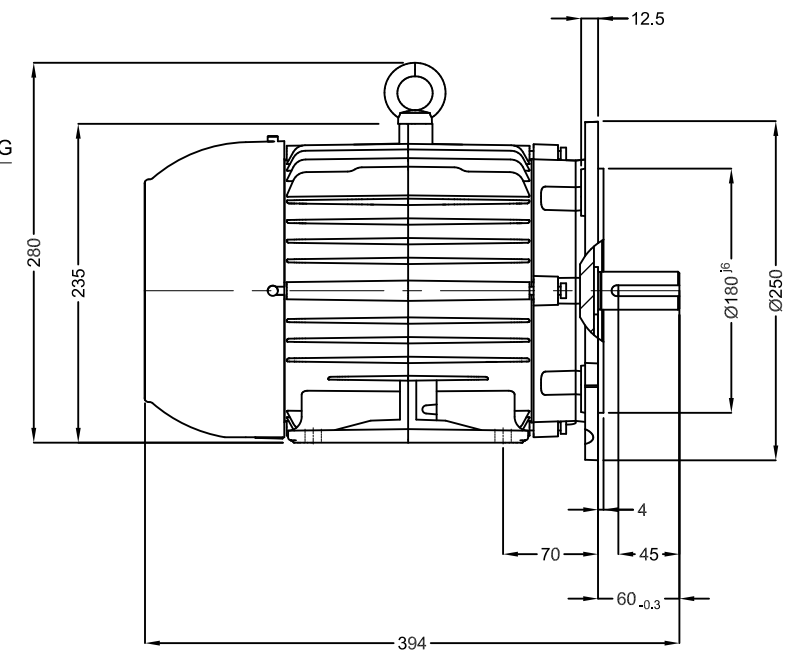




Performance : 575 V 60 Hz 4P

Rated current : 5.82 A
LRC : 8.0
Rated torque : 2.27 kgfm
Locked rotor torque : 250 %
Breakdown torque : 350 %
Rated speed : 1755 rpm

Moment of inertia (J) : 0.0182 kgm²
Duty cycle : S1
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : N

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5.5 HP 04 Poles 60 Hz										A
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ECM		LOC		SUMMARY OF MODIFICATIONS			EXECUTED		CHECKED	
							RELEASED		DATE	
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EXECUTED		HYBRISUSER		 THREE PH. MOTOR W22 IE3 FRAME 112M IP55 TEFC			PREVIEW WDD 00			
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