

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11616141

Frame	: 444/5TS	Locked rotor time	: 52s (cold) 29s (hot)
Output	: 125 HP	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 107 A	Protection degree	: IP55
L. R. Amperes	: 708 A	Cooling method	: IC411 - TEFC
LRC	: 6.6x(Code G)	Mounting	: F-1
No load current	: 27.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3570 rpm	Noise level ²	: 81.0 dB(A)
Slip	: 0.83 %	Starting method	: Direct On Line
Rated torque	: 25.4 kgfm	Approx. weight ³	: 733 kg
Locked rotor torque	: 200 %		
Breakdown torque	: 250 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 1.41 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	93.6	94.5	95.0	Max. traction	: 189 kgf
Power Factor	0.82	0.87	0.89	Max. compression	: 922 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)
4.8	3.0	2.5	3.1	1.4	1.1	0.5

	Drive end	Non drive end
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				
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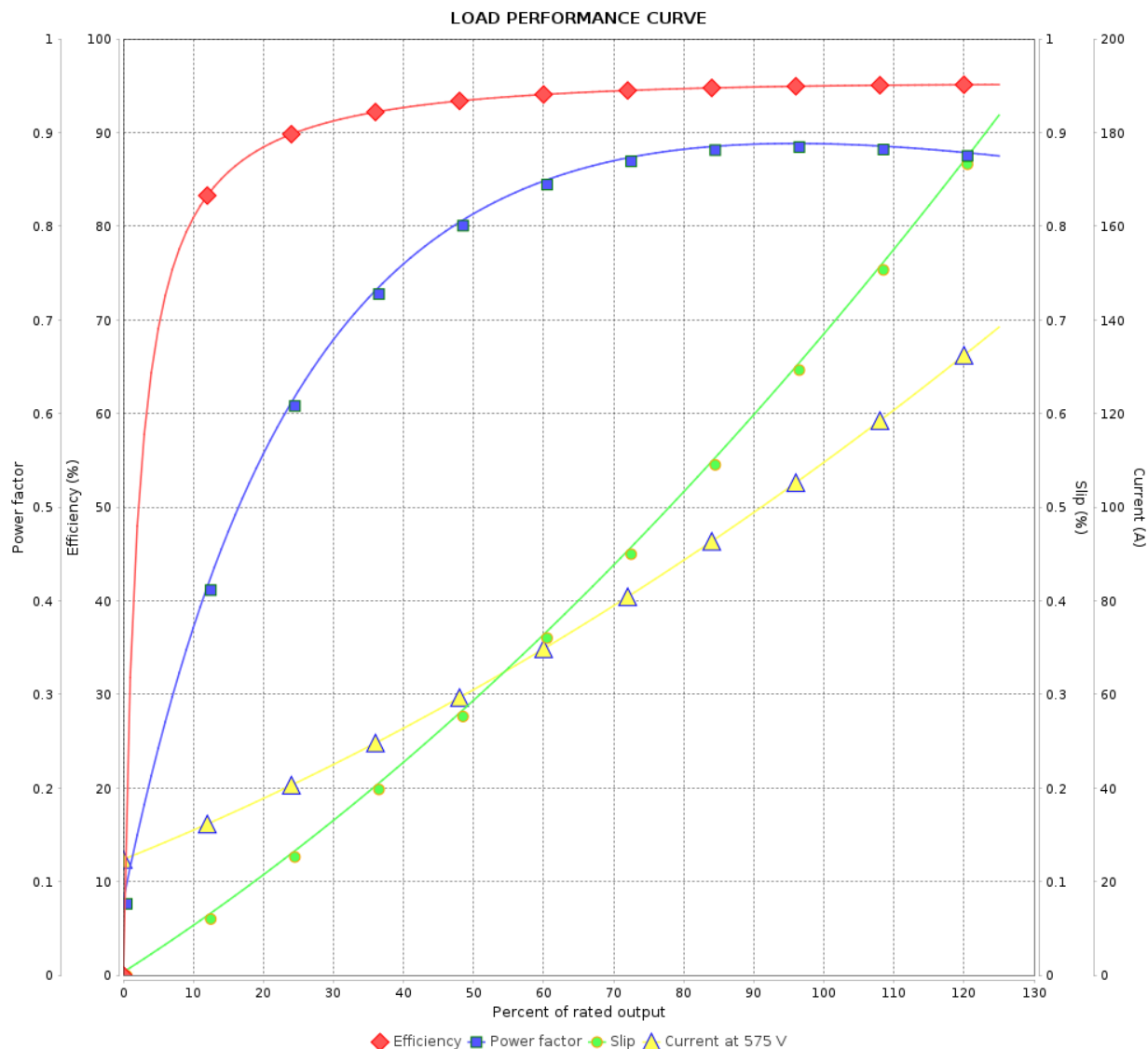
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Three-Phase

Product code : 11616141

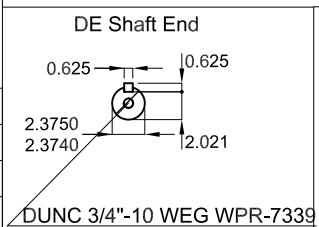
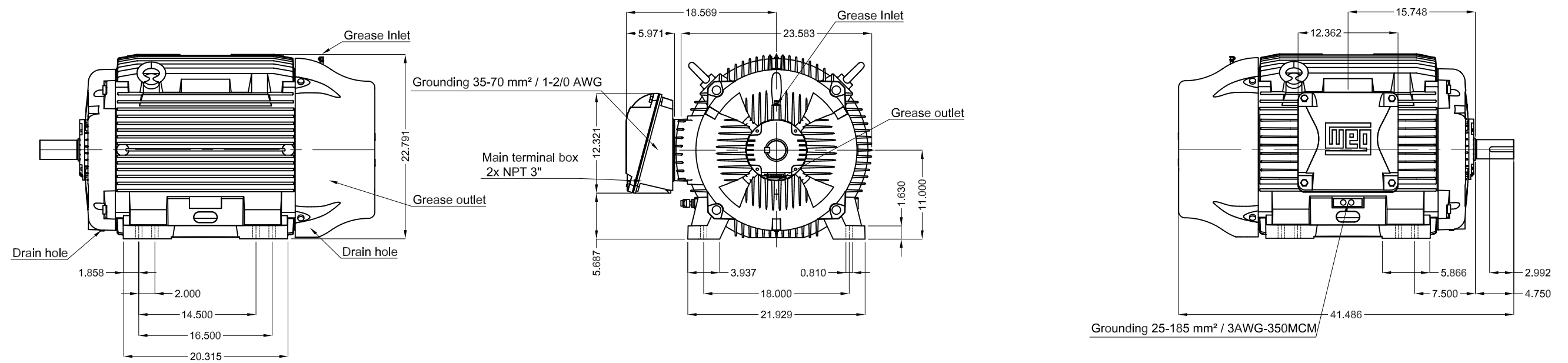


Performance : 575 V 60 Hz 2P

Rated current : 107 A
LRC : 6.6
Rated torque : 25.4 kgfm
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 3570 rpm

Moment of inertia (J) : 1.41 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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125 HP 02 Poles 60 Hz										A
						HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 444/5TS IP55 TEFC				PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE							SHEET		/	