DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12810583

Frame	: 143/5TD
Output	: 2 HP (1.5 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 2.23 A
L. R. Amperes	: 18.5 A
LRC	: 8.3x(Code L)
No load current	: 1.30 A
Rated speed	: 1750 rpm
Slip	: 2.78 %
Rated torque	: 0.829 kgfm
Locked rotor torque	: 270 %
Breakdown torque	: 320 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.0066 kgm²
Design	: B

Locked rotor time	: 18s (cold) 10s (hot)
Temperature rise	: 80 K
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: F-1
Rotation[1]	: Both (CW and CCW)
Noise level[2]	: 51.0 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 25.9 kg

Output	50%	75%	100%
Efficiency (%)	85.5	86.5	86.5
Power Factor	0.57	0.70	0.78

Foundation loads

Max. traction	: 63 kgf
Max. compression	: 88 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)
15.0	12.8	12.1	8.4	6.0	4.7	3.5

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6204 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.

Rev.	Changes Summary	Performed	Checked	Date

Performed by				
Checked by			Page	Revision
Date	20/10/2024		1 / 2	

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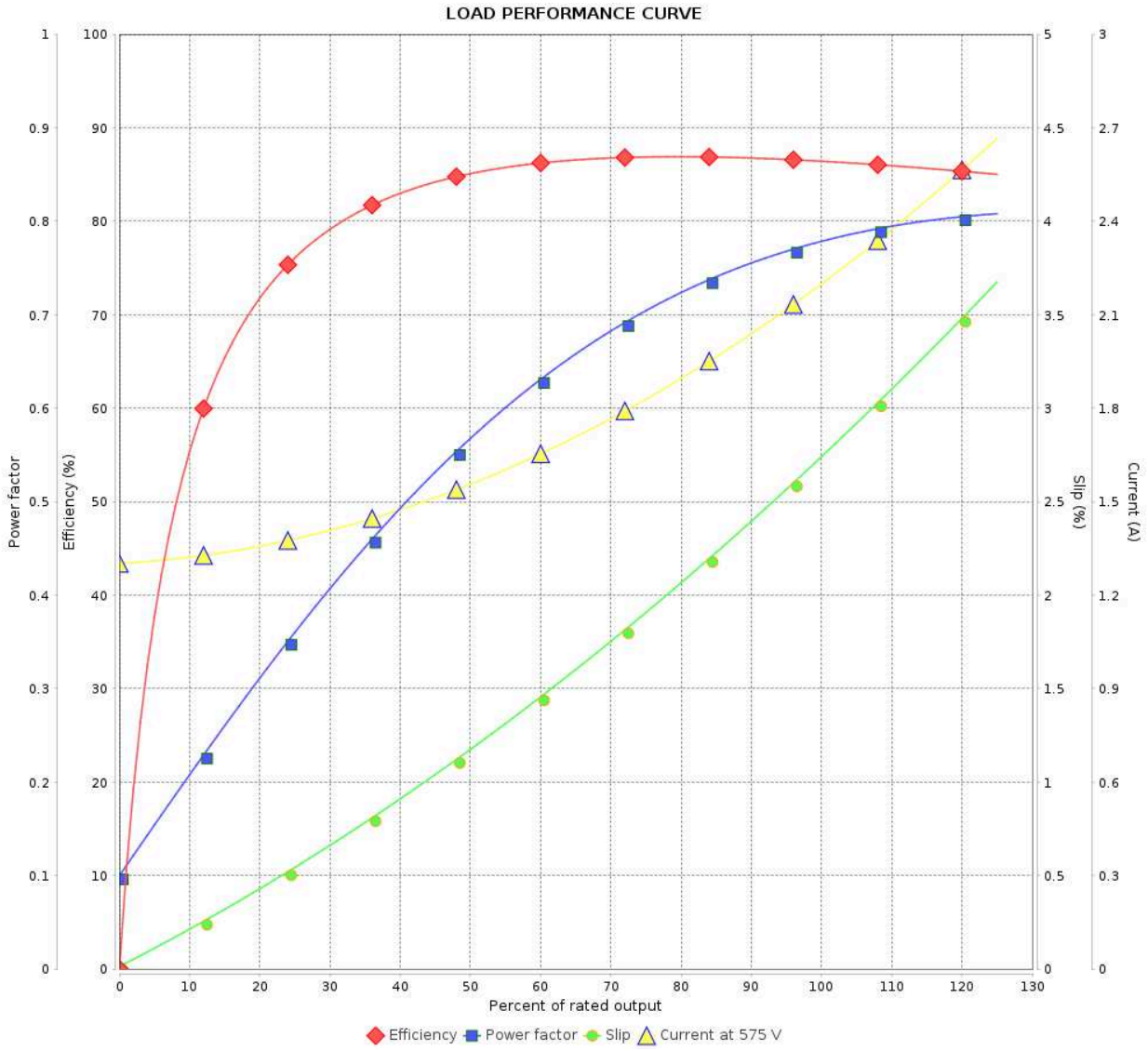
LOAD PERFORMANCE CURVE

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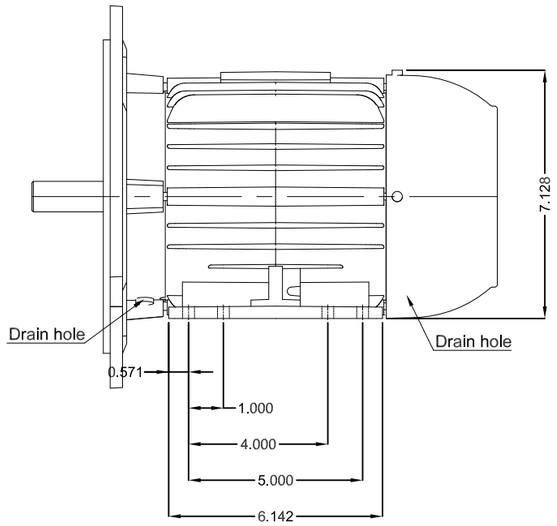


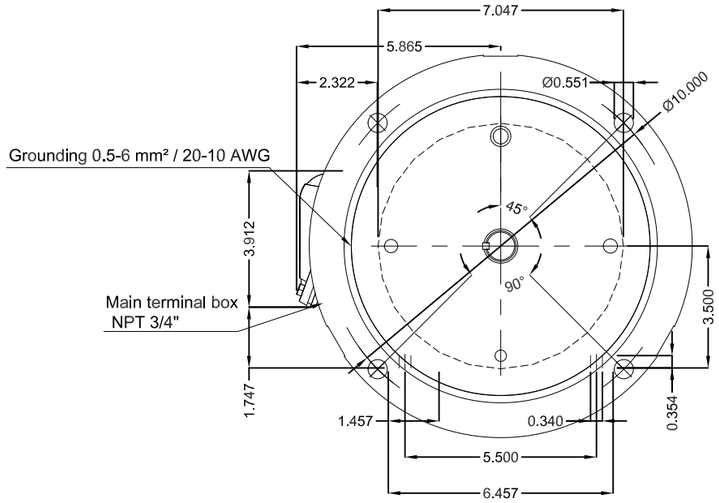
Performance	: 575 V 60 Hz 4P		
Rated current	: 2.23 A	Moment of inertia (J)	: 0.0066 kgm²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 0.829 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 320 %	Temperature rise	: 80 K
Rated speed	: 1750 rpm	Design	: B

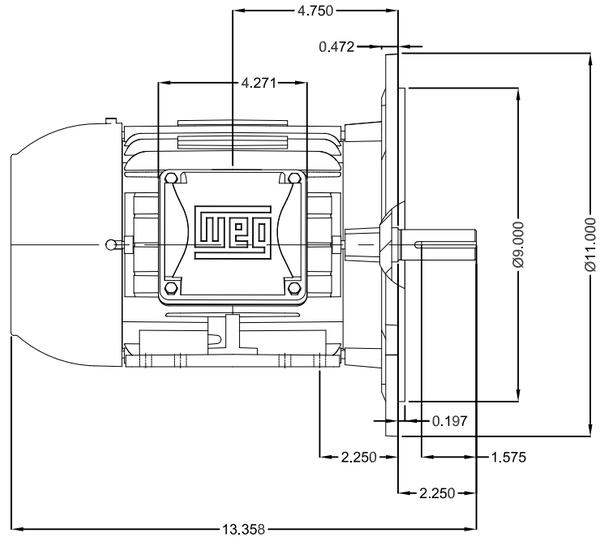
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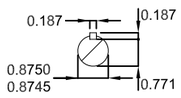
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DE Shaft End



Packing - crate
Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B35R(D)

2 HP 04 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 NEMA PREM. EFF.
FRAME 143/5TD IP55 TEFC

PREVIEW
WDD 00
SHEET /

Dimensions in inches

A3

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