DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	17753755

Frame	: 182/4TD	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 3 HP (2.2 kW)	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	: 3.01 A	Protection degree	: IP55
L. R. Amperes	: 25.9 A	Cooling method	: IC411 - TEFC
LRC	: 8.6x(Code K)	Mounting	: F-1
No load current	: 1.28 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 3515 rpm	Noise level[2]	: 66.0 dB(A)
Slip	: 2.36 %	Starting method	: Direct On Line
Rated torque	: 0.619 kgfm	Approx. weight[3]	: 38.4 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0080 kgm²		
Design	: B		

Output	50%	75%	100%
Efficiency (%)	82.0	86.0	86.5
Power Factor	0.70	0.80	0.85

Foundation loads

Max. traction	: 30 kgf
Max. compression	: 68 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)
14.6	10.7	9.4	8.3	4.5	3.1	1.8

		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.

Rev.	Changes Summary	Performed	Checked	Date

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

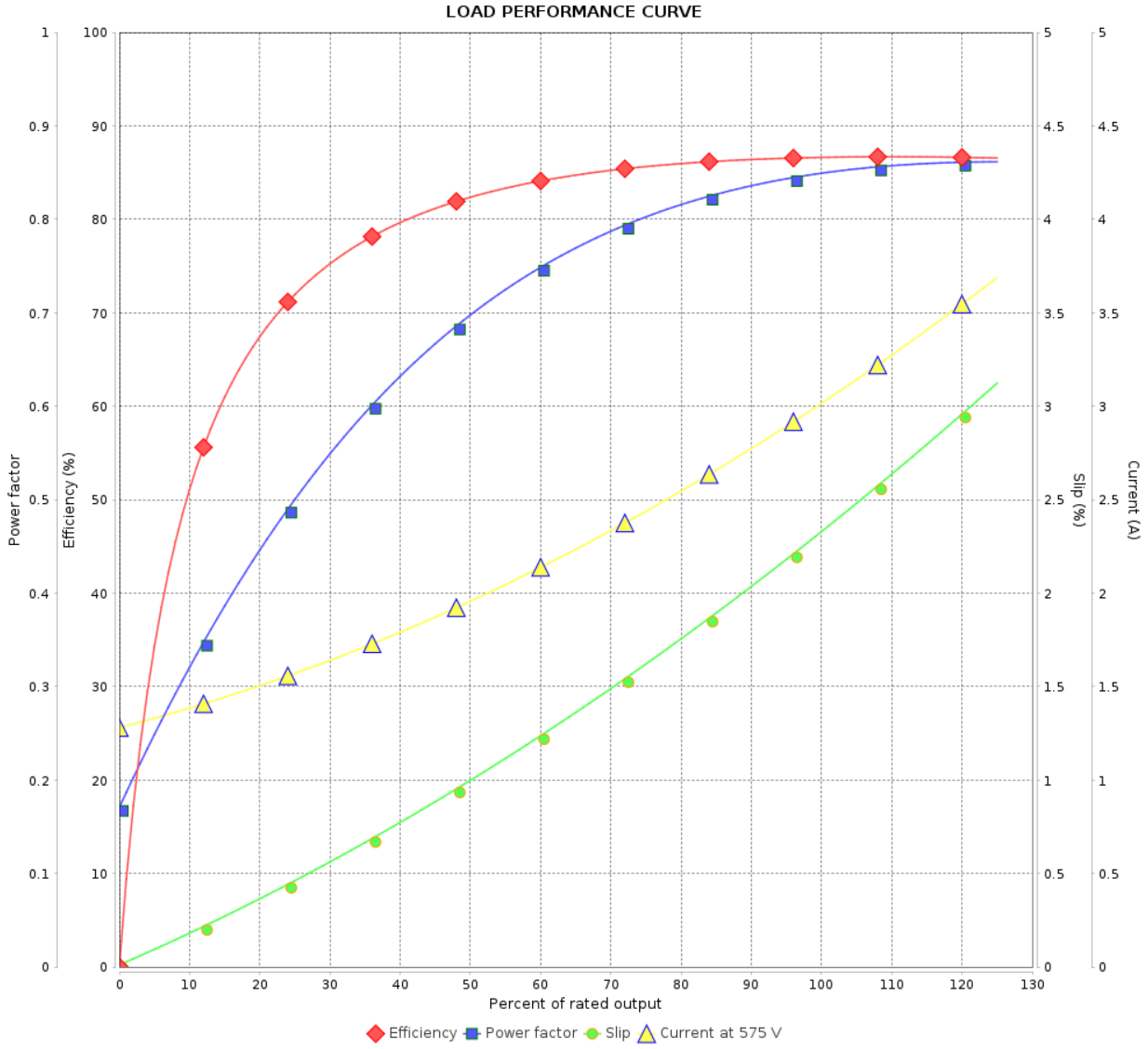
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LOAD PERFORMANCE CURVE

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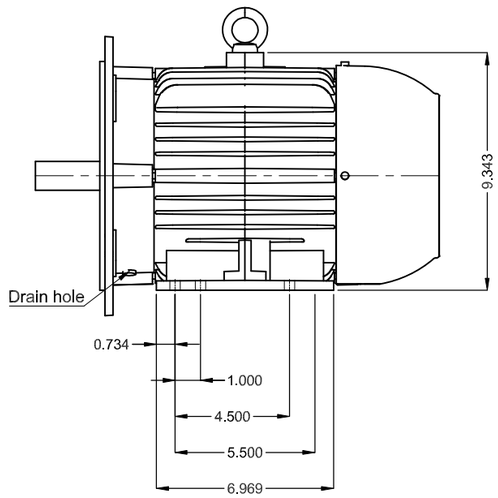
Performance	: 575 V 60 Hz 2P

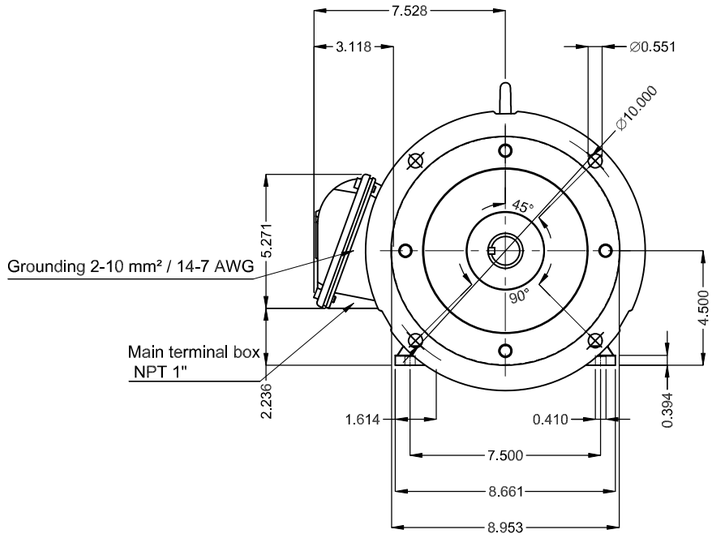
Rated current	: 3.01 A	Moment of inertia (J)	: 0.0080 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.619 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

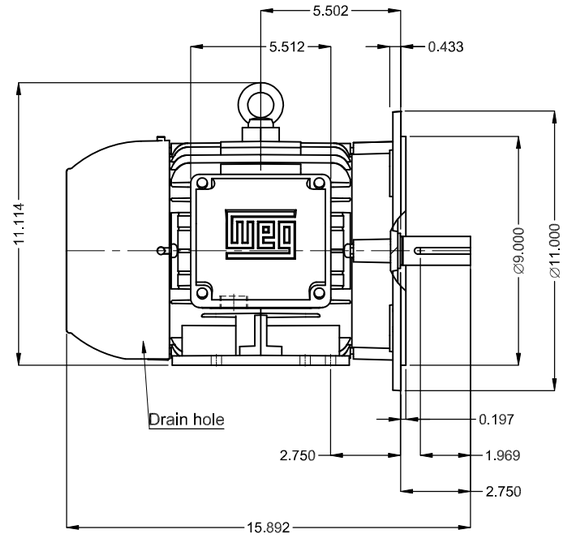
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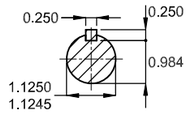






Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B35R(D)

DE Shaft End



3 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 NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 182/4TD IP55 TEFC	WDD 00
RELEASED			SHEET /
REL. DATE			

Dimensions in inches

A3

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