DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase

Product code : 14815569

Frame	: 284/6TC
Output	: 30 HP (22 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 28.1 A
L. R. Amperes	: 171 A
LRC	: 6.1x(Code G)
No load current	: 9.84 A
Rated speed	: 1770 rpm
Slip	: 1.67 %
Rated torque	: 12.3 kgfm
Locked rotor torque	: 240 %
Breakdown torque	: 240 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.2467 kgm²
Design	: B

Locked rotor time	: 36s (cold) 20s (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]	: 63.0 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 198 kg

Output	25%	50%	75%	100%
Efficiency (%)	0.000	93.0	93.0	93.6
Power Factor	0.00	0.70	0.80	0.84

Foundation loads

Max. traction : 304 kgf

Max. compression : 540 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)
6.8	5.8	5.2	3.1	2.2	1.4	0.9

		Drive end	Non drive end
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	Lip Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 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

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Three Phase Induction Motor - Squirrel Cage

Customer :

Brake information

Voltage: 220-240 V
Brake Torque: 26.5 kgfm

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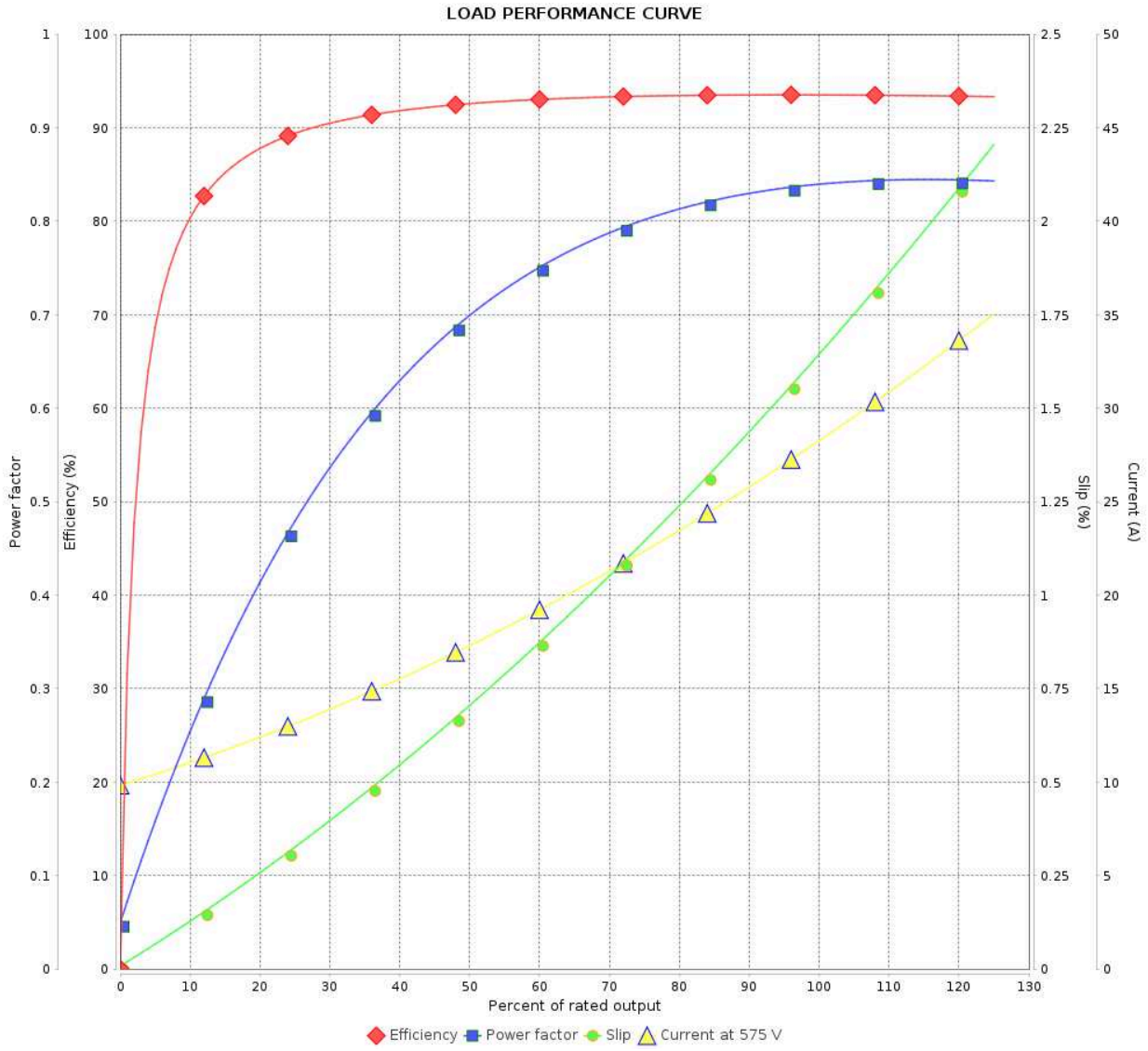
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase

Product code : 14815569

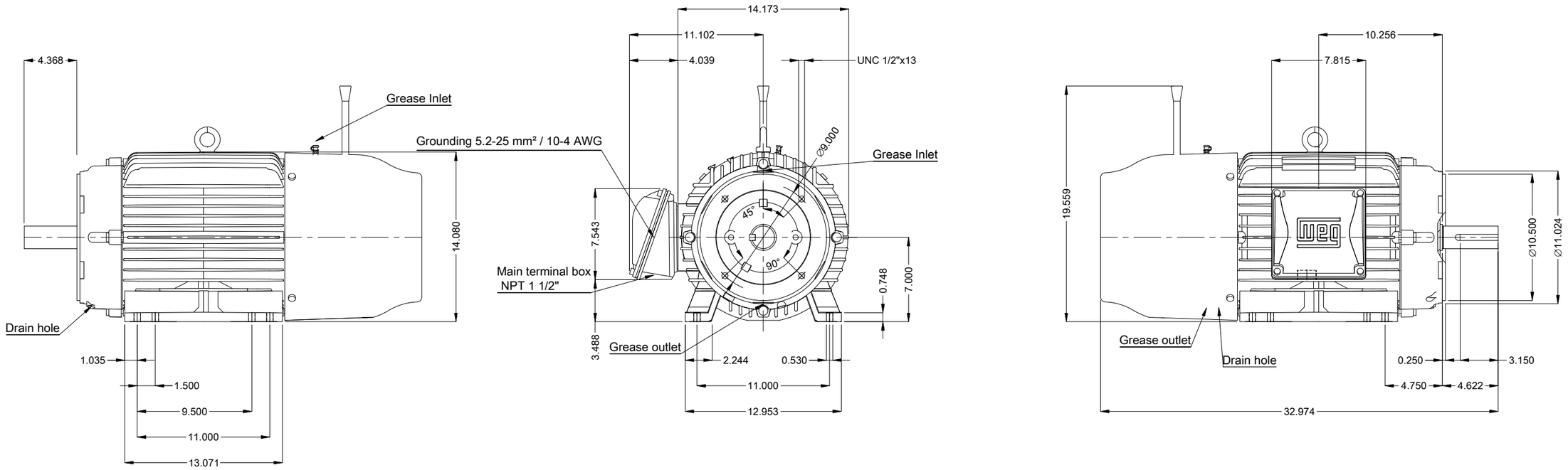


Performance	: 575 V 60 Hz 4P		
Rated current	: 28.1 A	Moment of inertia (J)	: 0.2467 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

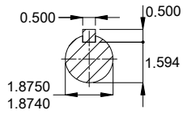
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Brake 20 (260 Nm)
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B34D

DE Shaft End



30 HP 04 Poles 60 Hz | A

Scale 1 : 9

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF.
FRAME 284/6TC IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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