DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

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

Product code : 14742134

Frame	: 143/5TC
Output	: 1.5 HP (1.1 kW)
Poles	: 4
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 1.68 A
L. R. Amperes	: 14.1 A
LRC	: 8.4x(Code L)
No load current	: 0.960 A
Rated speed	: 1755 rpm
Slip	: 2.50 %
Rated torque	: 0.620 kgfm
Locked rotor torque	: 290 %
Breakdown torque	: 350 %
Insulation class	: F
Service factor	: 1.25
Moment of inertia (J)	: 0.0060 kgm²
Design	: B

Locked rotor time	: 25s (cold) 14s (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]	: 22.0 kg

Output	50%	75%	100%
Efficiency (%)	82.5	85.5	86.5
Power Factor	0.54	0.67	0.76

Foundation loads

Max. traction	: 48 kgf
Max. compression	: 75 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)
14.7	12.1	12.0	8.7	6.1	4.9	3.6

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	V'Ring	Lip Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

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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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Brake information

Voltage: 525-575 V
Brake Torque: 1.63 kgfm

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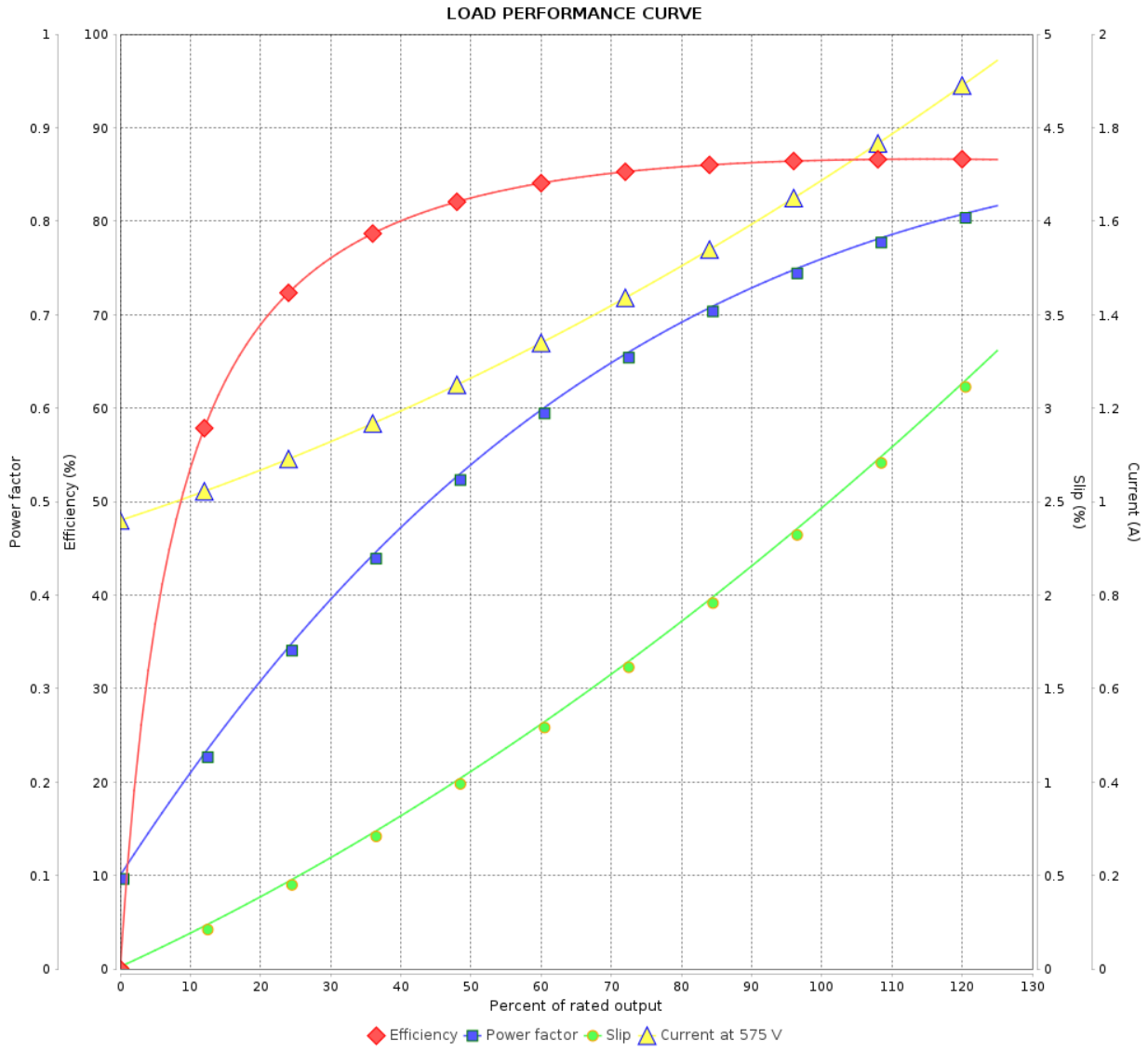
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

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

Product code : 14742134



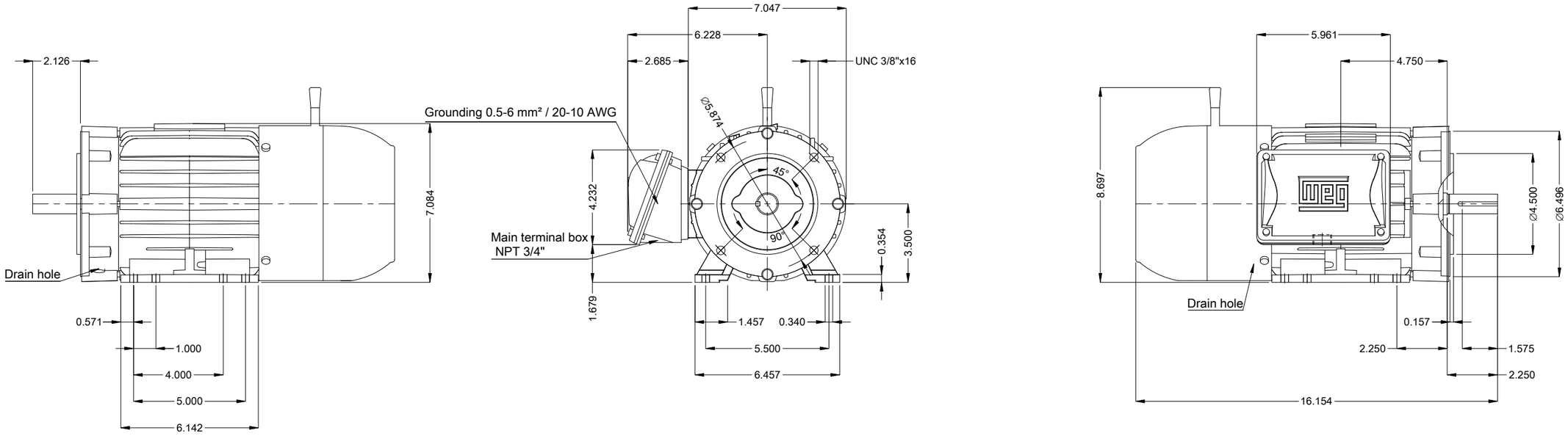
Performance	: 575 V 60 Hz 4P

Rated current	: 1.68 A	Moment of inertia (J)	: 0.0060 kgm²
LRC	: 8.4	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1755 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date

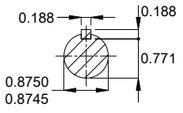
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With brake 10 (16 Nm)
Brake voltage 525-575 V
Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B34D

DE Shaft End



1.5 HP 04 Poles 60 Hz

A

Scale 1 : 5

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 143/5TC IP55 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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