

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 17119544

Frame	: 182/4TC	Locked rotor time	: 55s (cold) 31s (hot)
Output	: 2 HP (1.5 kW)	Temperature rise	: 80 K
Poles	: 6	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 6.44/3.22 A	Protection degree	: IP55
L. R. Amperes	: 48.3/24.2 A	Cooling method	: IC411 - TEFC
LRC	: 7.5x(Code L)	Mounting	: F-1
No load current	: 3.80/1.90 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1170 rpm	Noise level ²	: 52.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 1.24 kgfm	Approx. weight ³	: 53.3 kg
Locked rotor torque	: 300 %		
Breakdown torque	: 350 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0262 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.5	87.5	88.5	Max. traction	: 64 kgf
Power Factor	0.46	0.58	0.66	Max. compression	: 117 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)
12.3	9.8	9.2	7.4	5.0	3.9	2.9

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	Lip Seal
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	Mobil Polyrex EM	

Notes

This revision replaces and cancel the previous one, which must be eliminated.

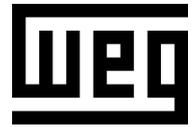
- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

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		Page 1 / 3		Revision
Checked by				
Date	23/10/2024			

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Brake information

Voltage: 220-240 V
Brake Torque: 6.12 kgfm

Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	23/10/2024		2 / 3	

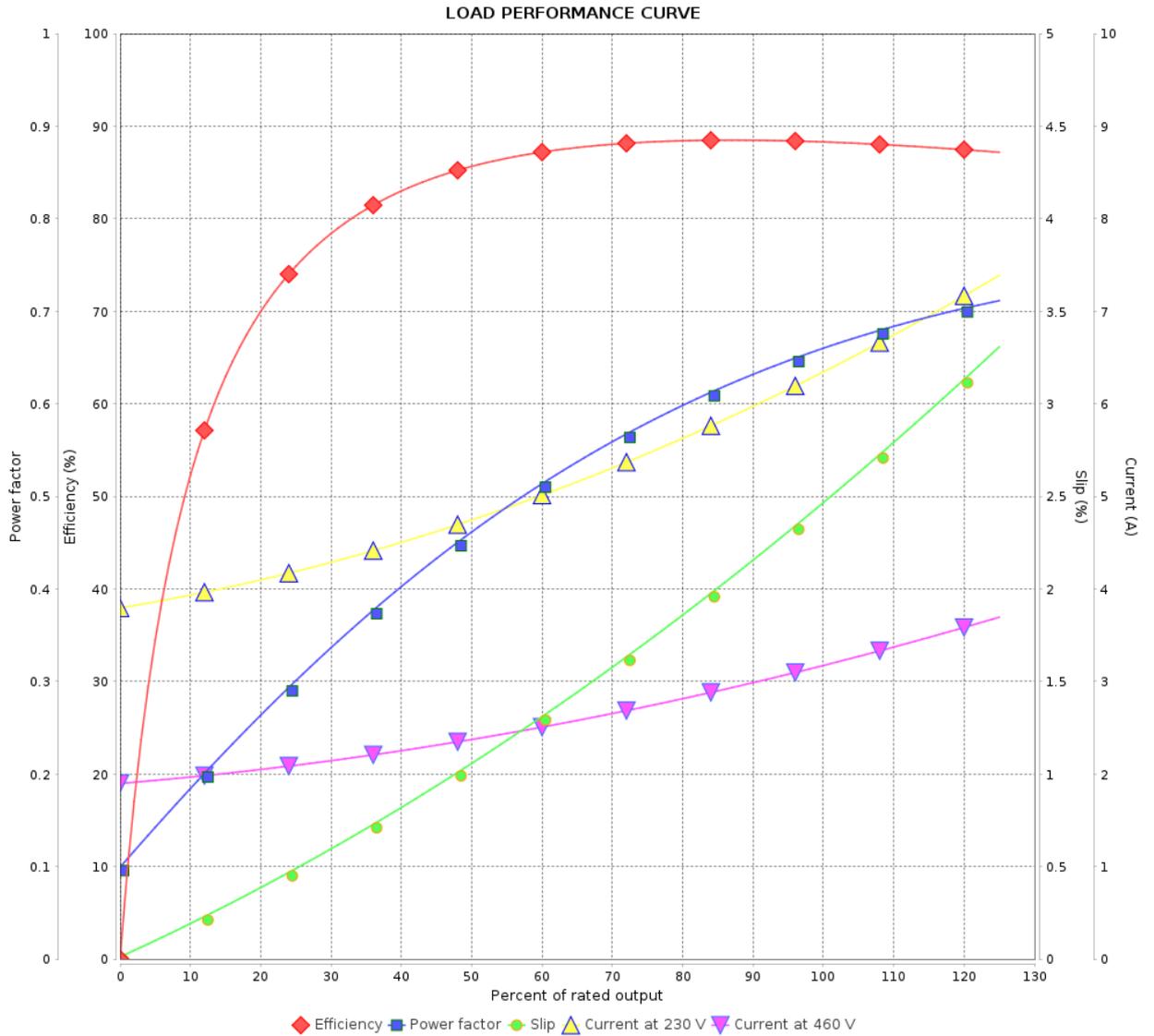
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 17119544

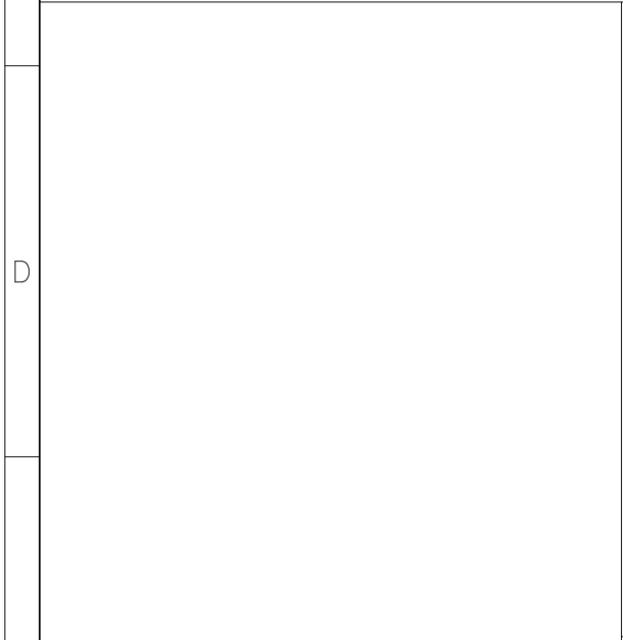
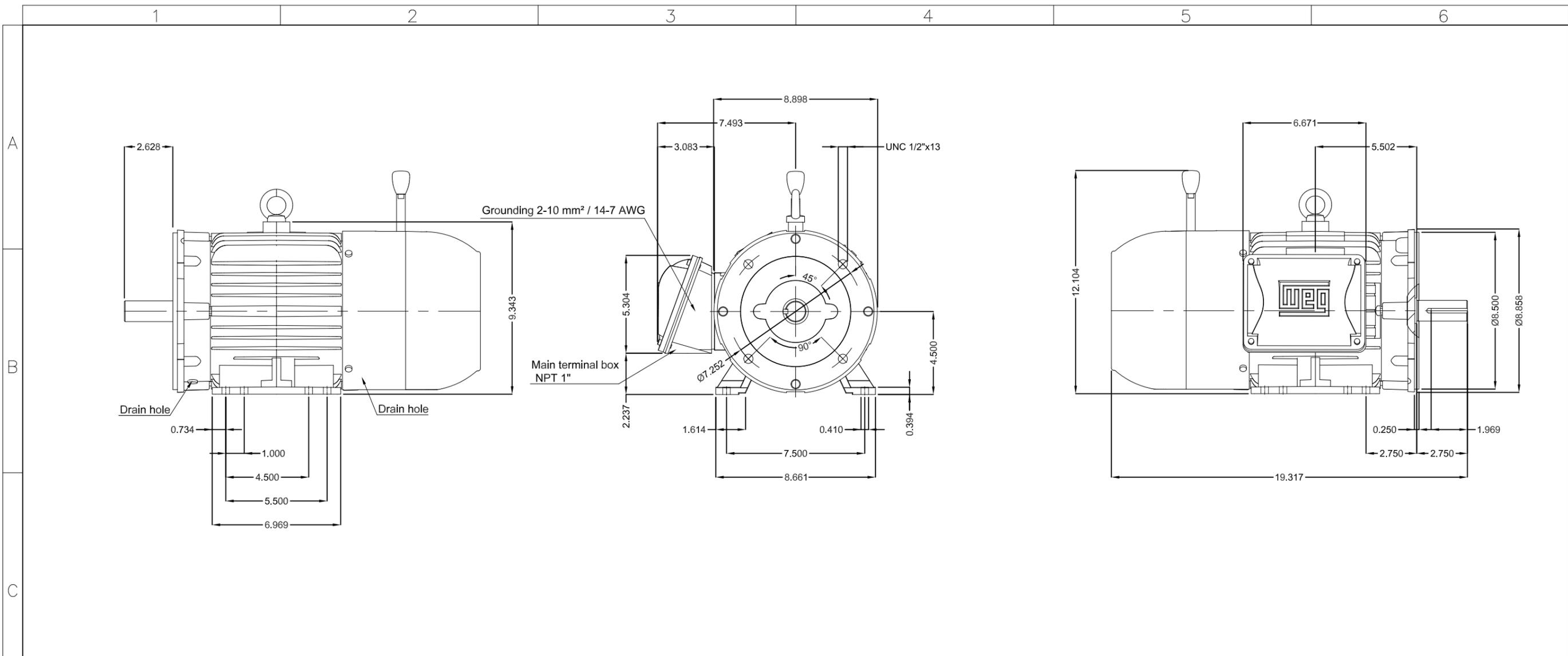


Performance : 230/460 V 60 Hz 6P

Rated current : 6.44/3.22 A
 LRC : 7.5
 Rated torque : 1.24 kgfm
 Locked rotor torque : 300 %
 Breakdown torque : 350 %
 Rated speed : 1170 rpm

Moment of inertia (J) : 0.0262 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				



With brake 14 (60 Nm)
Color RAL 5009
Painting plan 207A
Mounting NEMA F-1
Mounting B34R(D)

2 HP 06 Poles 60 Hz	
ECM	LOC
EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

SUMMARY OF MODIFICATIONS					HYBRISUSER	00
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF.	EXECUTED	CHECKED	RELEASED	DATE
CHECKED		FRAME 182/4TC IP55 TEFC				
RELEASED						
REL. DATE						

EXECUTED: HYBRISUSER
 CHECKED: [Signature]
 RELEASED: [Signature]
 REL. DATE: [Signature]

THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF.
 FRAME 182/4TC IP55 TEFC

WDD 00
 SHEET /