

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Brake Motor NEMA Premium Product code : 15200457
Efficiency Three-Phase

Frame	: 324/6T	Locked rotor time	: 46s (cold) 26s (hot)
Output	: 25 HP (18.5 kW)	Temperature rise	: 80 K
Poles	: 6	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	: 24.7 A	Protection degree	: IP55
L. R. Amperes	: 153 A	Cooling method	: IC411 - TEFC
LRC	: 6.2x(Code G)	Mounting	: F-1
No load current	: 11.2 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 1180 rpm	Noise level ²	: 62.0 dB(A)
Slip	: 1.67 %	Starting method	: Direct On Line
Rated torque	: 15.4 kgfm	Approx. weight ³	: 294 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 260 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.4843 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	92.4	93.0	93.0	Max. traction	: 356 kgf
Power Factor	0.65	0.76	0.81	Max. compression	: 650 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)
7.3	6.1	5.9	3.7	2.5	1.7	1.2

	Drive end	Non drive end
Bearing type	: 6312 C3	6212 C3
Sealing	: V'Ring	Lip Seal
Lubrication interval	: 20000 h	20000 h
Lubricant amount	: 21 g	13 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
Performed by				
Checked by				
Date	29/10/2024			
		Page		Revision
		1 / 3		

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Brake information

Voltage: 525-575 V
Brake Torque: 40.8 kgfm

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 3	
Date	29/10/2024				

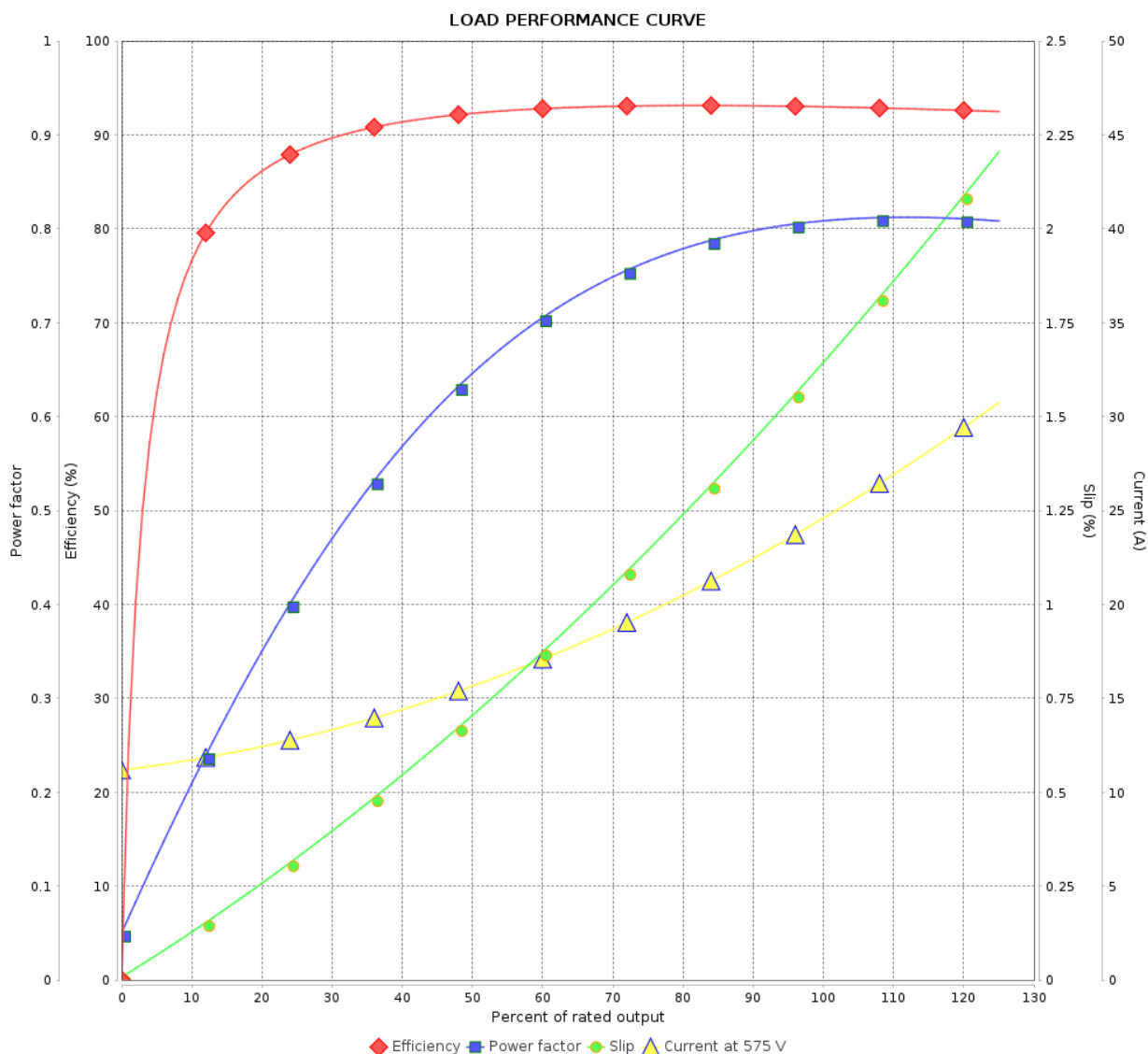
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



Customer :

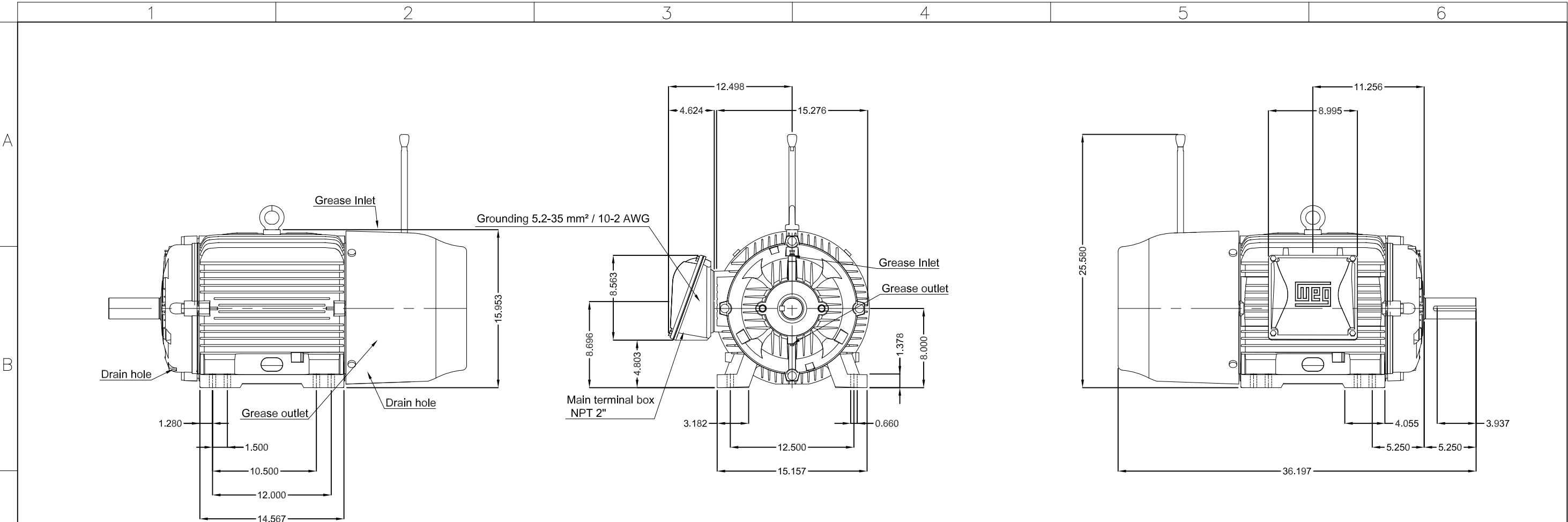
Product line : W22 Brake Motor NEMA Premium Efficiency Three-Phase Product code : 15200457

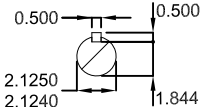




Performance : 575 V 60 Hz 6P

Rated current	: 24.7 A	Moment of inertia (J)	: 0.4843 kgm ²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 15.4 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1180 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by		Page 3 / 3		
Checked by				
Date	29/10/2024			
		Revision		



D					25 HP 06 Poles 60 Hz										A	
E	Brake voltage 525-575 V	<div>DE Shaft End</div> 									HYBRISUSER					00
	Break size 25 (400 Nm)				ECM	LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
	Color RAL 5009				EXECUTED	HYBRISUSER		THREE PH. MOTOR W22 BRAKE MOTOR NEMA PREM. EFF. FRAME 324/6T IP55 TEFC				PREVIEW				
	Painting plan 203A				CHECKED											
	Mounting NEMA F-1				RELEASED											
	Mounting B3R(D)				REL. DATE											