

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 Single-Phase

Product code : 13671588

Frame	: 213/5T	Locked rotor time	: 14s (cold) 8s (hot)
Output	: 12.5 HP (9.2 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: Cont.(S1)
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 208-230/460 V	Altitude	: 1000 m.a.s.l.
Rated current	: 51.8-46.0/23.0 A	Protection degree	: IP55
L. R. Amperes	: 378-336/168 A	Cooling method	: IC411 - TEFC
LRC	: 7.3x(Code G)	Mounting	: F-1
No load current	: 4.91-5.70/2.85 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3510 rpm	Noise level ²	: 72.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 2.58 kgfm	Approx. weight ³	: 84.2 kg
Locked rotor torque	: 210 %		
Breakdown torque	: 280 %		
Insulation class	: F		
Service factor	: 1.15		
Moment of inertia (J)	: 0.0285 kgm ²		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	86.0	88.0	88.5	Max. traction	: 91 kgf
Power Factor	0.98	0.98	0.98	Max. compression	: 176 kgf

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6308 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		Page 1 / 2 Revision		
Checked by				
Date	28/10/2024			

LOAD PERFORMANCE CURVE

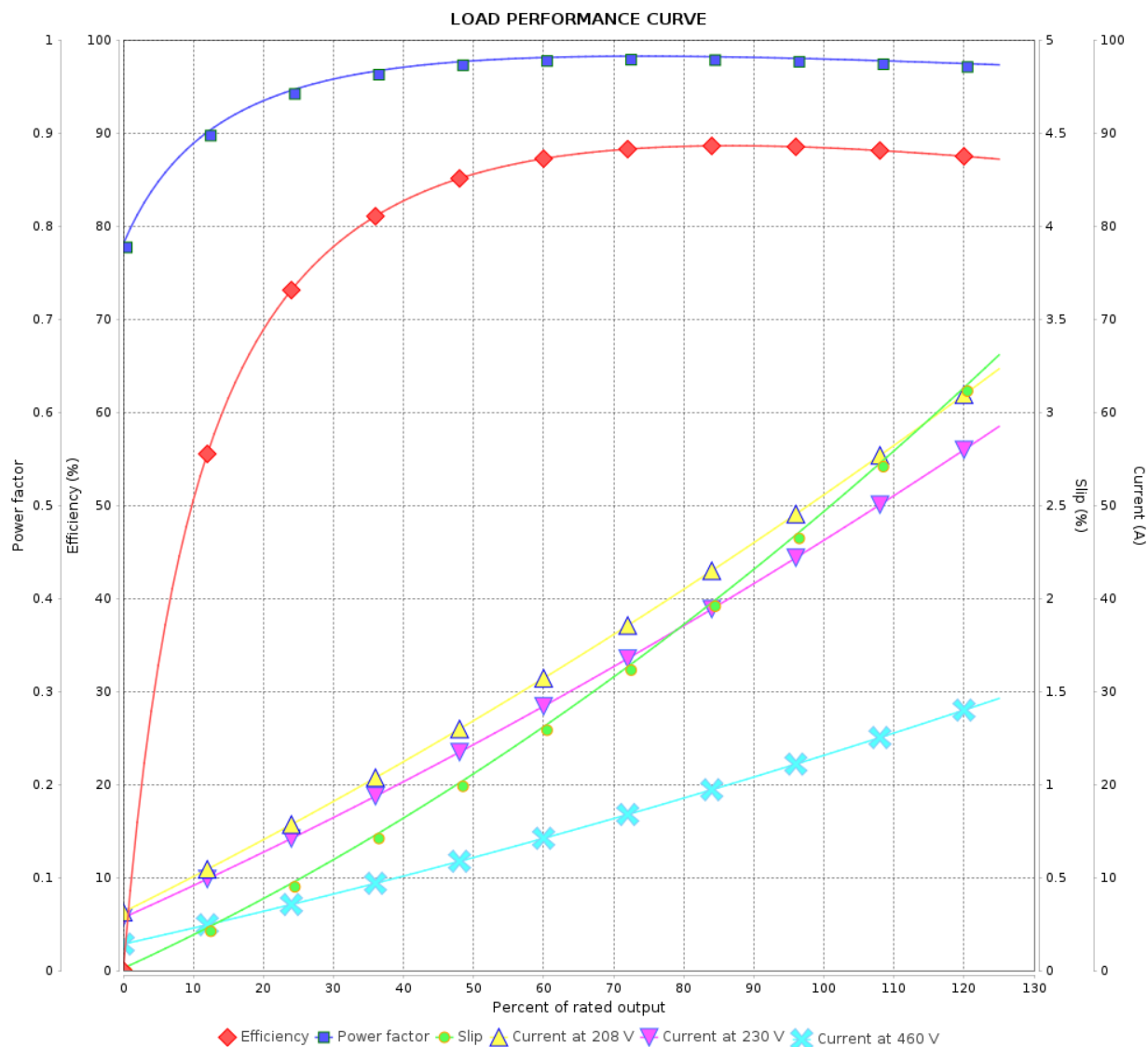
Single Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 Single-Phase

Product code : 13671588

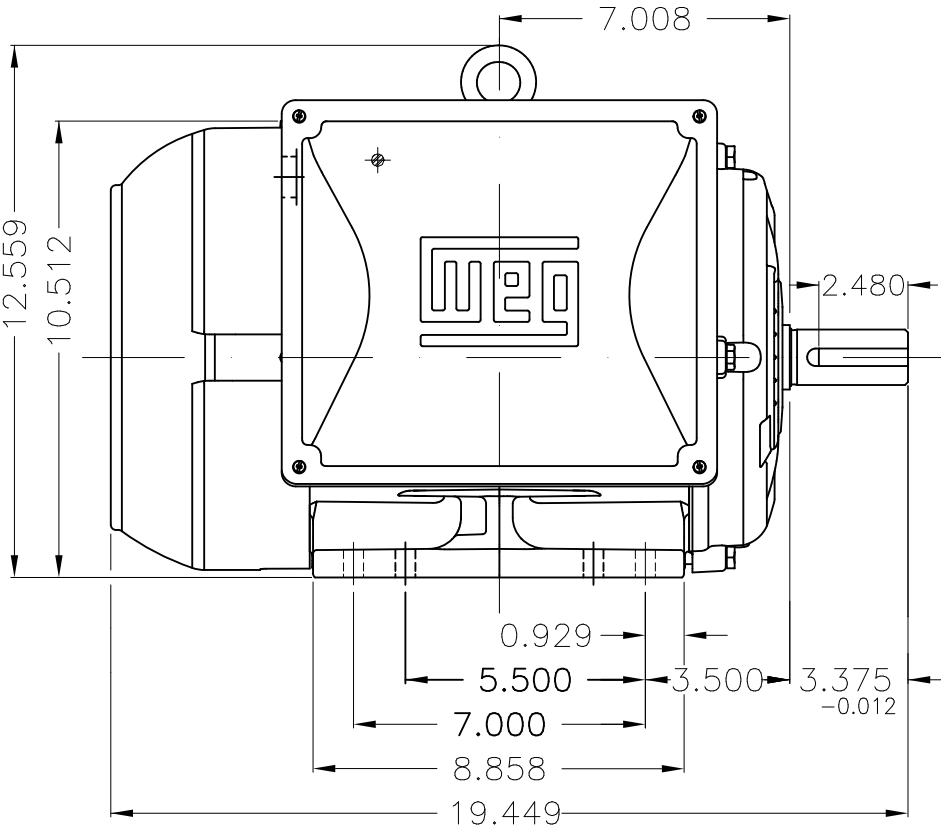
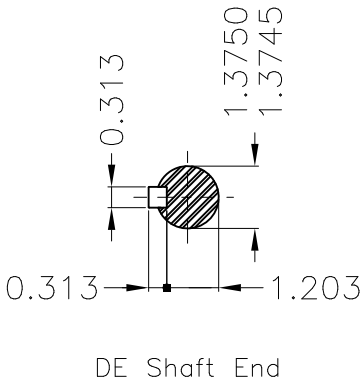
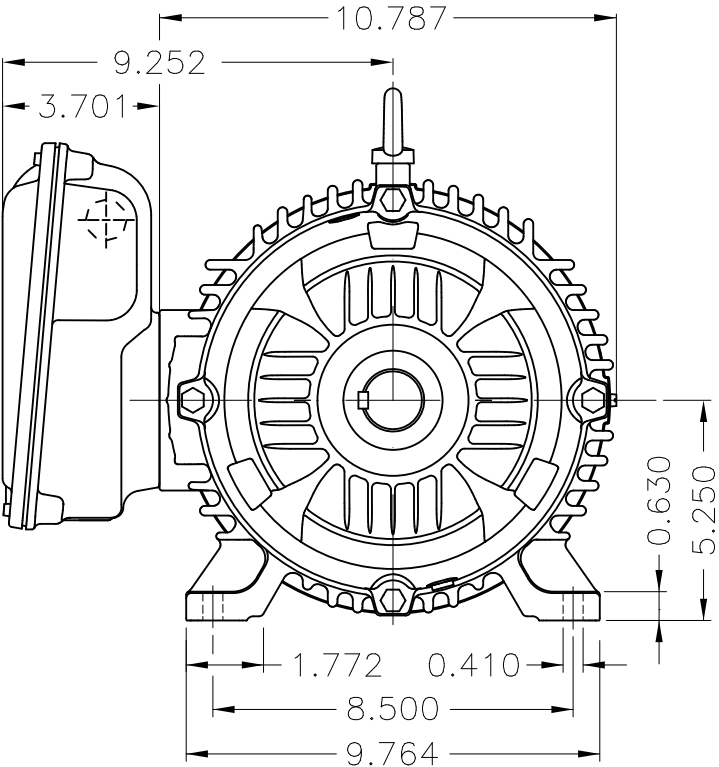
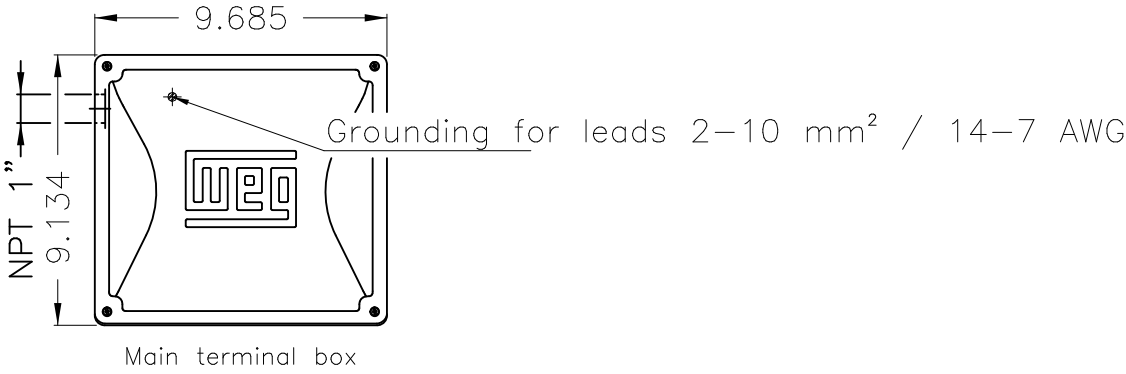
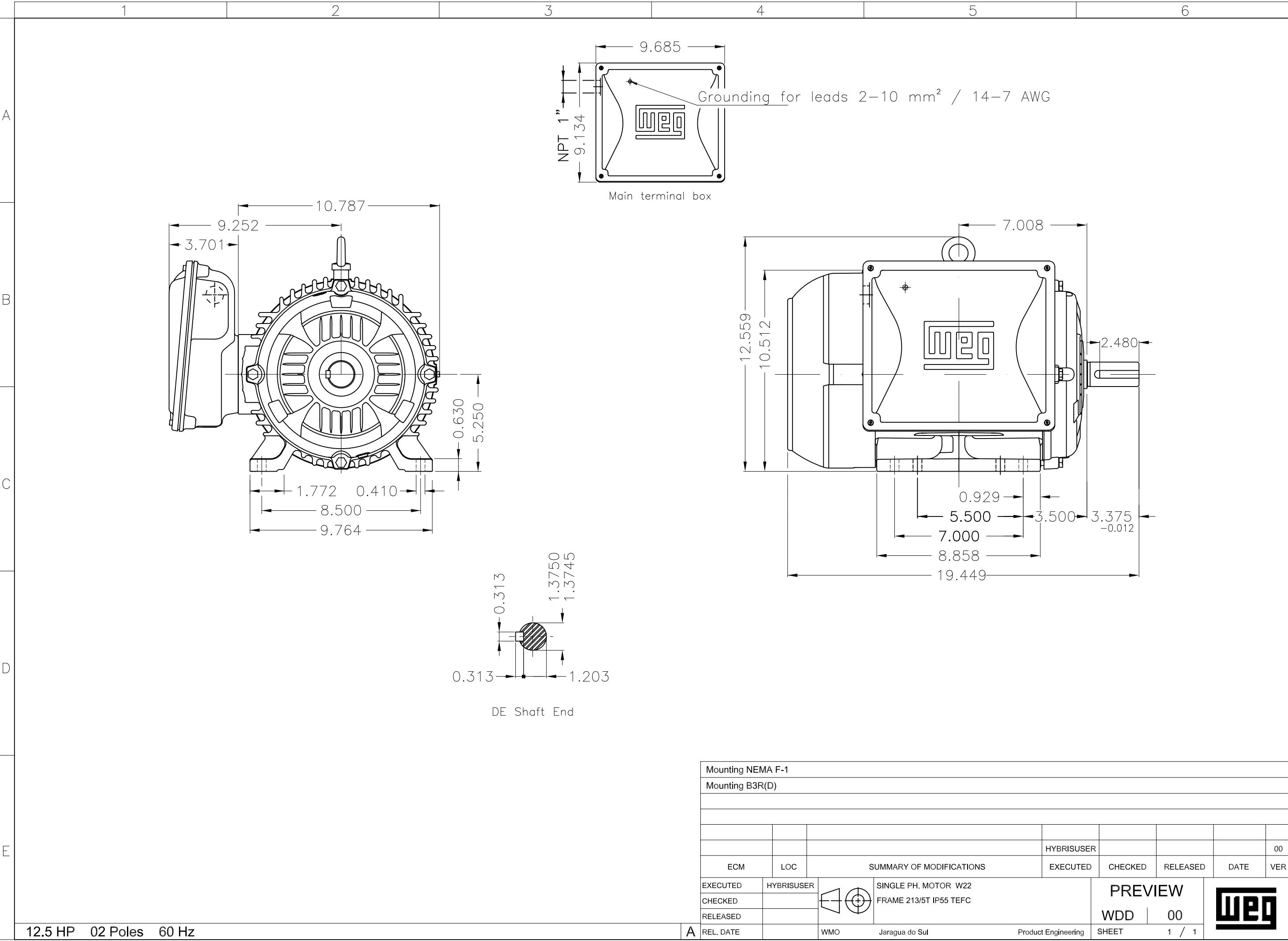


Performance : 208-230/460 V 60 Hz 2P

Rated current : 51.8-46.0/23.0 A
LRC : 7.3
Rated torque : 2.58 kgfm
Locked rotor torque : 210 %
Breakdown torque : 280 %
Rated speed : 3510 rpm

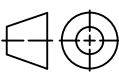
Moment of inertia (J) : 0.0285 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K

Rev.	Changes Summary		Performed	Checked	Date
Performed by				Page	Revision
Checked by				2 / 2	
Date					



Mounting NEMA F-1

Mounting B3R(D)

				HYBRISUSER				00
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE VER
EXECUTED	HYBRISUSER		SINGLE PH. MOTOR W22 FRAME 213/5T IP55 TEFC			PREVIEW		
CHECKED						WDD	00	
RELEASED								
REL. DATE		WMO	Jaragua do Sul	Product Engineering	SHEET	1 / 1		

12.5 HP 02 Poles 60 Hz