

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 IEEE 841 NEMA Premium Efficiency Three-Phase Product code : 15704987

Frame	: 182/4TC	Locked rotor time	: 73s (cold) 41s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Poles	: 2	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	: 2.90 A	Protection degree	: IP56
L. R. Amperes	: 25.0 A	Cooling method	: IC411 - TEFC
LRC	: 8.6x(Code K)	Mounting	: F-1
No load current	: 1.04 A	Rotation ¹	: Both (CW and CCW)
Rated speed	: 3510 rpm	Noise level ²	: 66.0 dB(A)
Slip	: 2.50 %	Starting method	: Direct On Line
Rated torque	: 0.620 kgfm	Approx. weight ³	: 44.6 kg
Locked rotor torque	: 250 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.0080 kgm ²		
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	82.5	86.5	86.5	Max. traction	: 27 kgf
Power Factor	0.75	0.84	0.88	Max. compression	: 71 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)
14.1	9.5	8.5	8.7	4.4	3.3	1.7

		<u>Drive end</u>	<u>Non drive end</u>
Bearing type	:	6207 C3	6206 C3
Sealing	:	Inpro/Seal	Inpro/Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	7 g	5 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.

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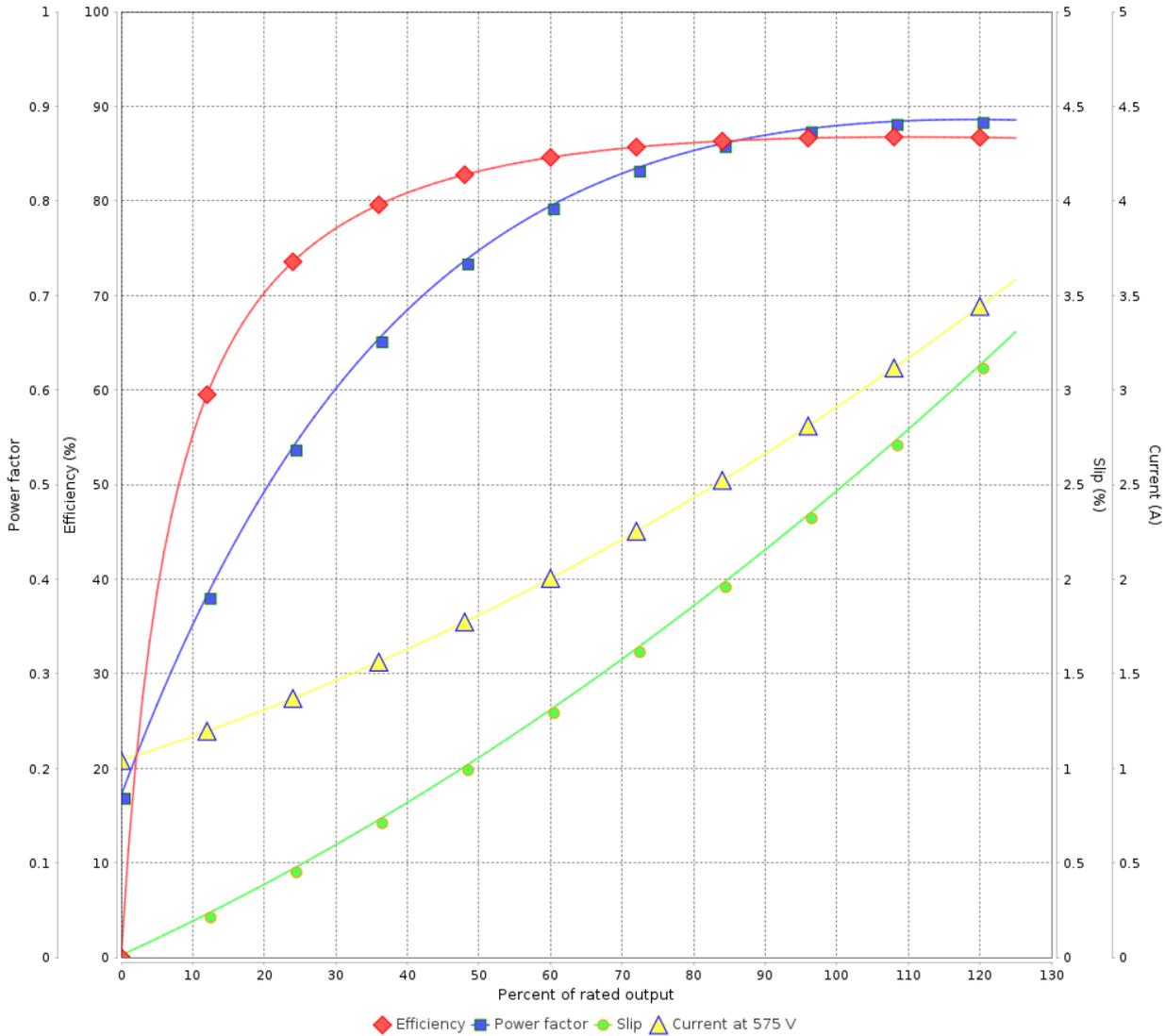
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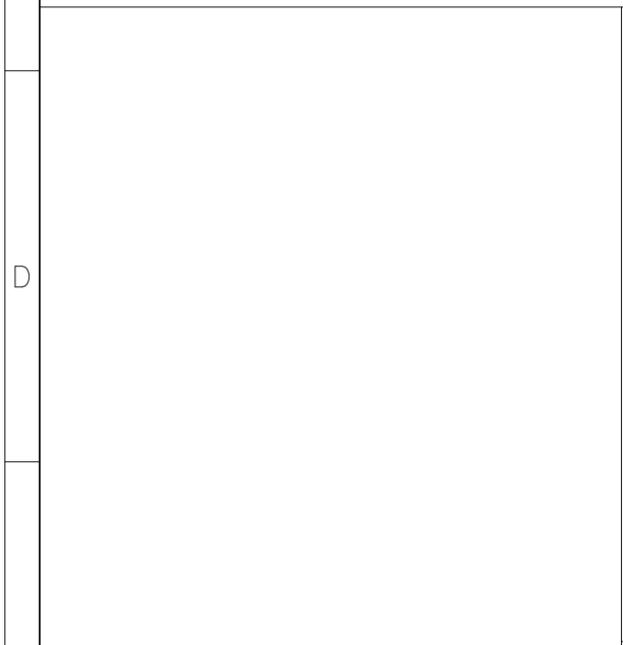
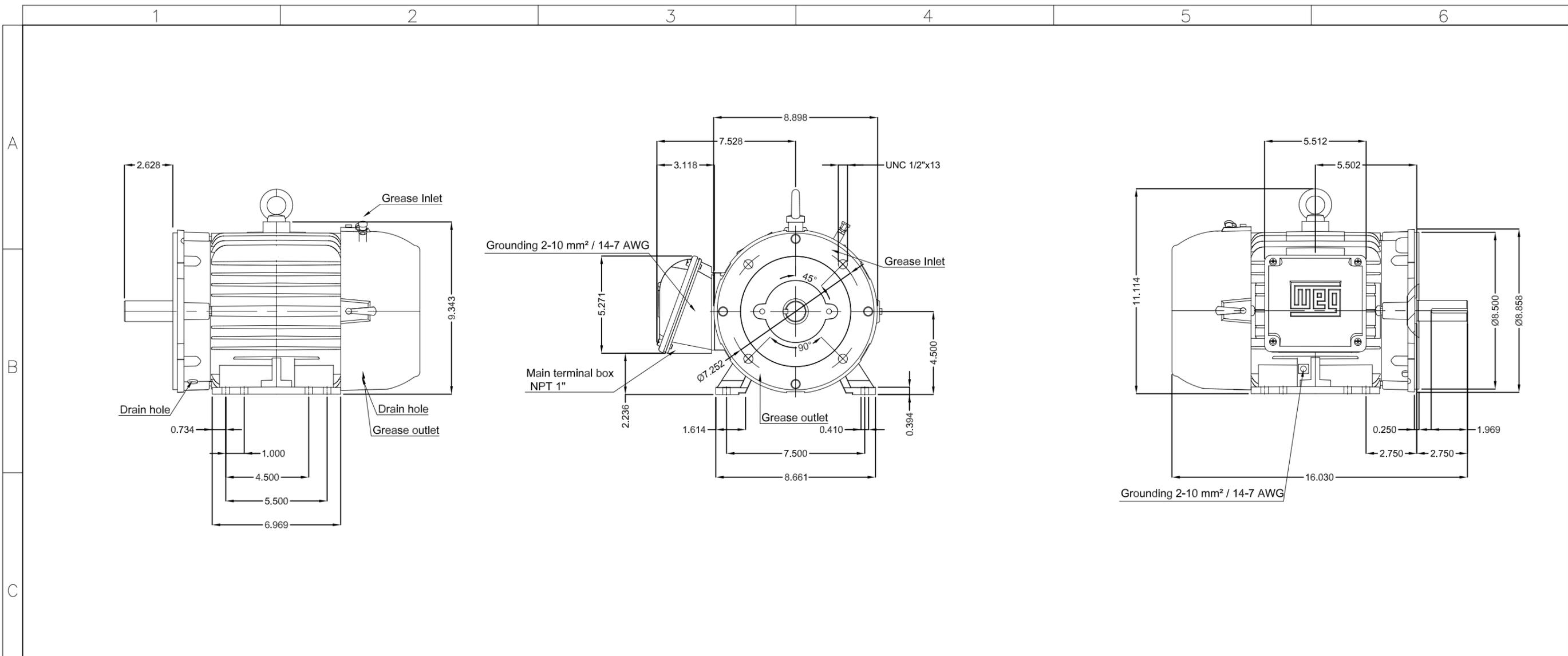
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Performance : 575 V 60 Hz 2P

Rated current	: 2.90 A	Moment of inertia (J)	: 0.0080 kgm ²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0.620 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3510 rpm	Design	: B

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Grease outlet according to IEEE841
Color RAL 5009
Painting plan 202E
Mounting NEMA F-1
Mounting B34R(D)

3 HP 02 Poles 60 Hz	
ECM	LOC
EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

SUMMARY OF MODIFICATIONS					HYBRISUSER	00
EXECUTED	HYBRISUSER	THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF.	EXECUTED	CHECKED	RELEASED	DATE
CHECKED		FRAME 182/4TC IP56 TEFC	EXECUTED	CHECKED	RELEASED	DATE
RELEASED			EXECUTED	CHECKED	RELEASED	DATE
REL. DATE			EXECUTED	CHECKED	RELEASED	DATE

3 HP 02 Poles 60 Hz

HYBRISUSER 00

THREE PH. MOTOR IEEE 841 W22 NEMA PREM. EFF. FRAME 182/4TC IP56 TEFC

PREVIEW

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