

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : Rolled Steel NEMA Premium Efficiency Three-Phase      Product code : 19222762

Frame	: 143/5TC	Locked rotor time	: 18s (cold) 10s (hot)
Output	: 3 HP (2.2 kW)	Temperature rise	: 80 K
Frequency	: 60 Hz	Duty cycle	: Cont.(S1)
Rated voltage	: 230/460 V	Ambient temperature	: -20°C to +40°C
Poles	: 2	Altitude	: 1000 m.a.s.l.
Rated current	: 7.02/3.51 A	Protection degree	: IP55
	: 9.5x(Code K)	Cooling method	: IC411 - TEFC
Rated speed	: 3500 rpm	Mounting	: F-1
Rated torque	: 0.622 kgfm	Rotation <sup>1</sup>	: Both (CW and CCW)
Insulation class	: F	Noise level <sup>2</sup>	: 68.0 dB(A)
Service factor	: 1.15	Starting method	: Direct On Line
Moment of inertia (J)	: 0.0070 kgm <sup>2</sup>	Approx. weight <sup>3</sup>	: 22.9 kg
Design	: B		

Output	50%	75%	100%	Foundation loads	
Efficiency (%)	84.0	86.5	86.5	Max. traction	: 61 kgf
Power Factor	0.78	0.87	0.91	Max. compression	: 84 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)
14.5	10.8	9.9	8.0	4.4	3.0	1.7

	Drive end	Non drive end
Bearing type	: 6205 ZZ	: 6203 ZZ
Sealing	: V'Ring	: Without Bearing Seal
Lubrication interval	: -	: -
Lubricant amount	: -	: -
Lubricant type	: Mobil Polyrex EM	

### Notes

USABLE @208V 7.76A SF 1.00 SFA 7.76A

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		Revision
Checked by		1 / 2		
Date	04/06/2026			

# LOAD PERFORMANCE CURVE

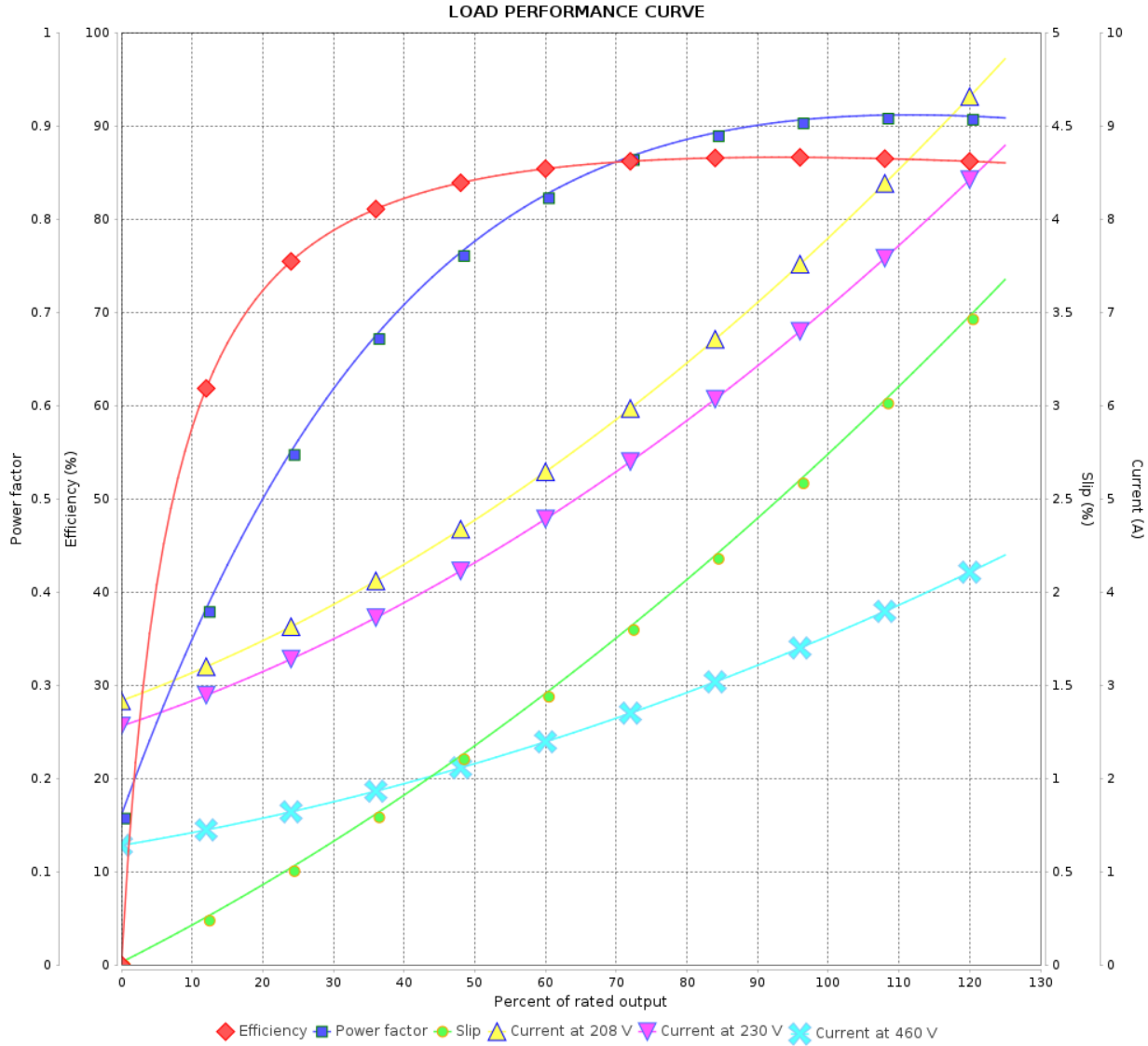
Three Phase Induction Motor - Squirrel Cage



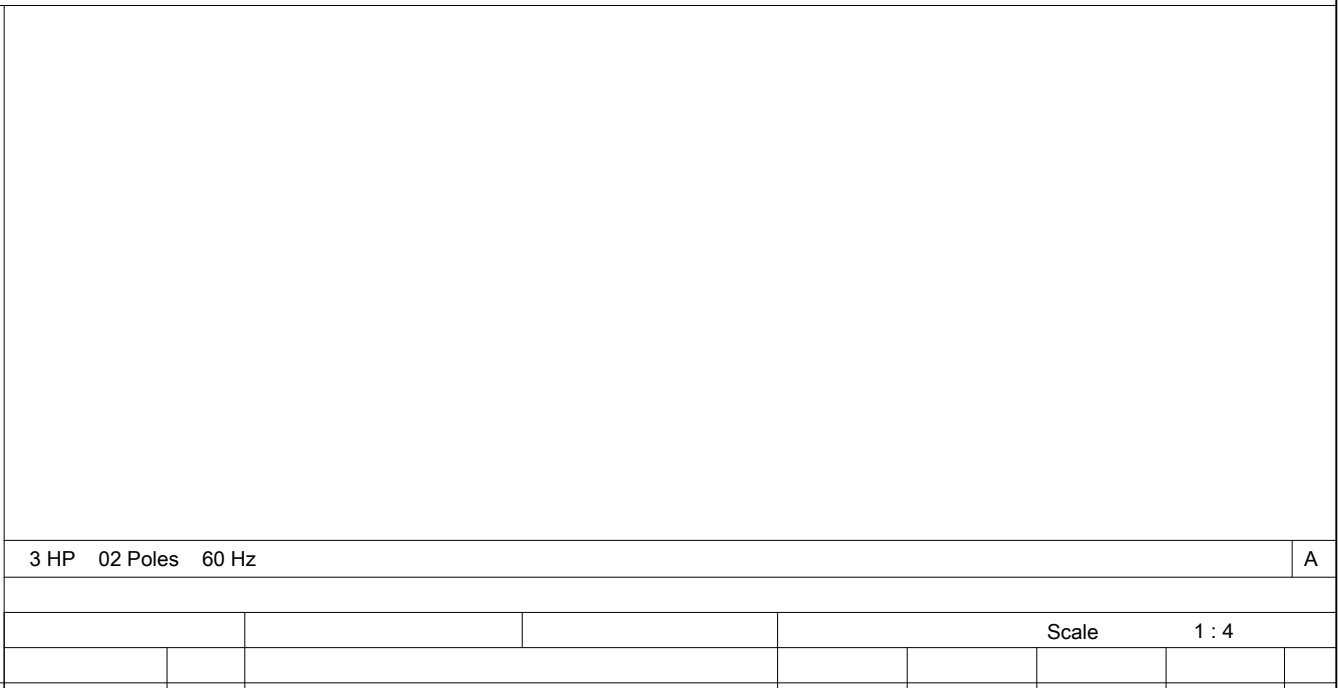
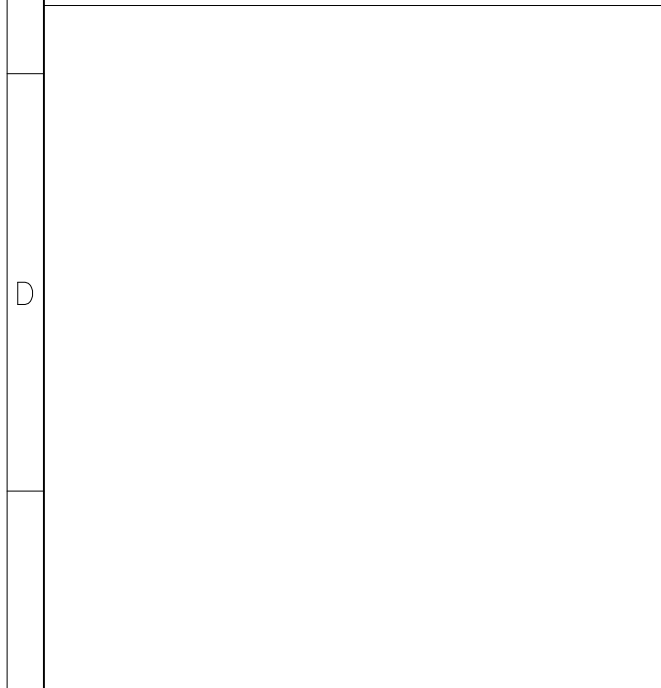
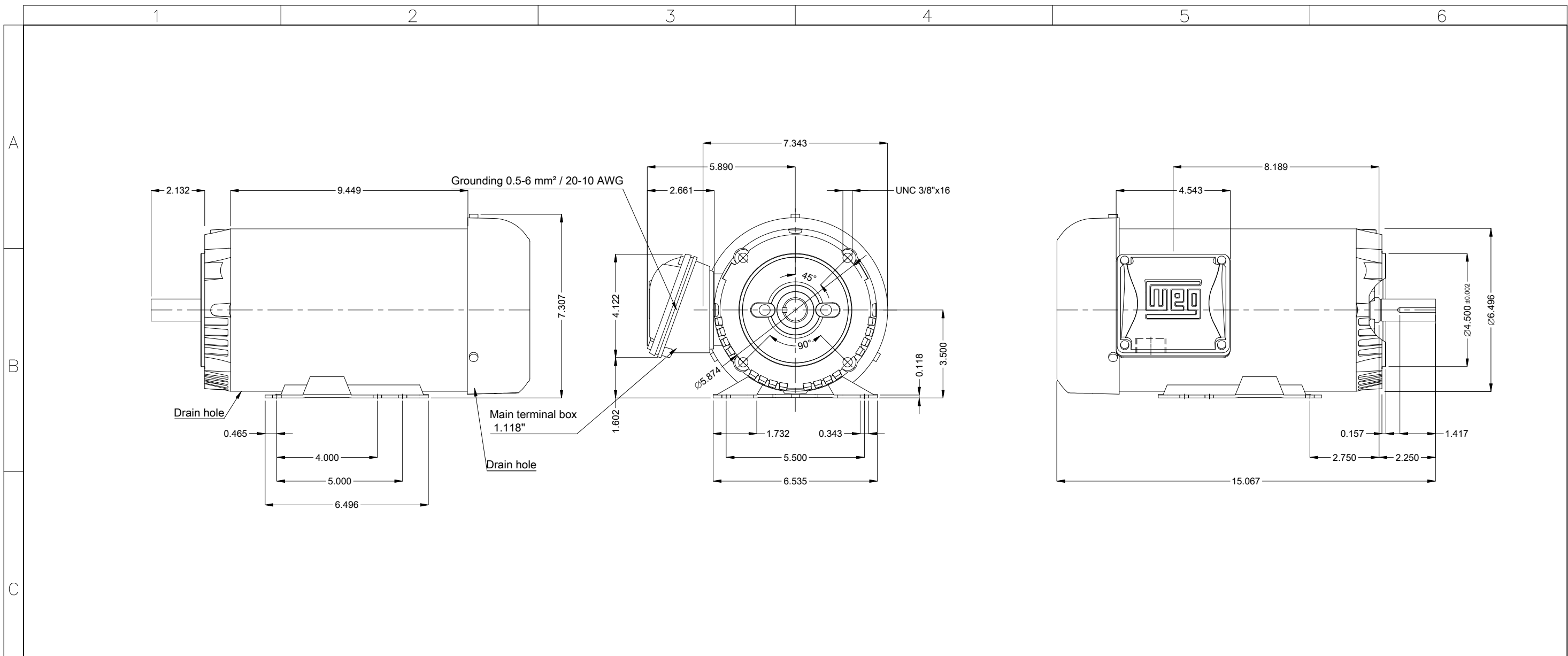
Customer : \_\_\_\_\_

Product line : Rolled Steel NEMA Premium  
Efficiency Three-Phase

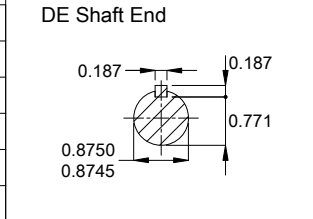
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Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date 04/06/2026				



Reinforce the foot with 2 mig welding spots
Fan cover - steel plate
Color Munsell N 1 matte black
Painting plan 207N
Mounting MARKET F-1/B34R(D)
Mounting B34D



3 HP 02 Poles 60 Hz		A	
Scale 1 : 4			
ECM	LOC	SUMMARY OF MODIFICATIONS	
EXECUTED	HYBRISUSER	EXECUTED	CHECKED
CHECKED		RELEASED	DATE
RELEASED			VER
REL. DATE			

HYBRISUSER		00	
THREE PH. MOTOR ROLLED STEEL NEMA PREM. EFF.	EXECUTED	CHECKED	RELEASED
FRAME 143/5TC IP55 TEFC	DATE	VER	
PREVIEW		WDD 00	
SHEET 1 / 1			