

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line		: W22 NEMA Premium Efficiency Three-Phase		Product code :		12686418	
Frame	:	143TC		Locked rotor time	:	32s (cold) 18s (hot)	
Output	:	1 HP (0.75 kW)		Temperature rise	:	80 K	
Frequency	:	60 Hz		Duty cycle	:	Cont.(S1)	
Rated voltage	:	380 V		Ambient temperature	:	-20°C to +40°C	
Poles	:	4		Altitude	:	1000 m.a.s.l.	
Rated current	:	1.83 A		Protection degree	:	IP55	
	:	8.6x(Code M)		Cooling method	:	IC411 - TEFC	
Rated speed	:	1760 rpm		Mounting	:	F-1	
Rated torque	:	0.412 kgfm		Rotation ¹	:	Both (CW and CCW)	
Insulation class	:	F		Noise level ²	:	51.0 dB(A)	
Service factor	:	1.15		Starting method	:	Direct On Line	
Moment of inertia (J)	:	0.0049 kgm ²		Approx. weight ³	:	20.5 kg	
Design	:	B					
Output	50%	75%	100%	Foundation loads			
Efficiency (%)	80.0	84.0	85.5	Max. traction	:	33 kgf	
Power Factor	0.52	0.65	0.73	Max. compression	:	53 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)	
18.7	15.7	17.0	12.0	8.8	7.6	5.7	
		<u>Drive end</u>		<u>Non drive end</u>			
Bearing type	:	6205 ZZ		6204 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							
Checked by					Page	Revision	
Date	20/03/2026				1 / 2		

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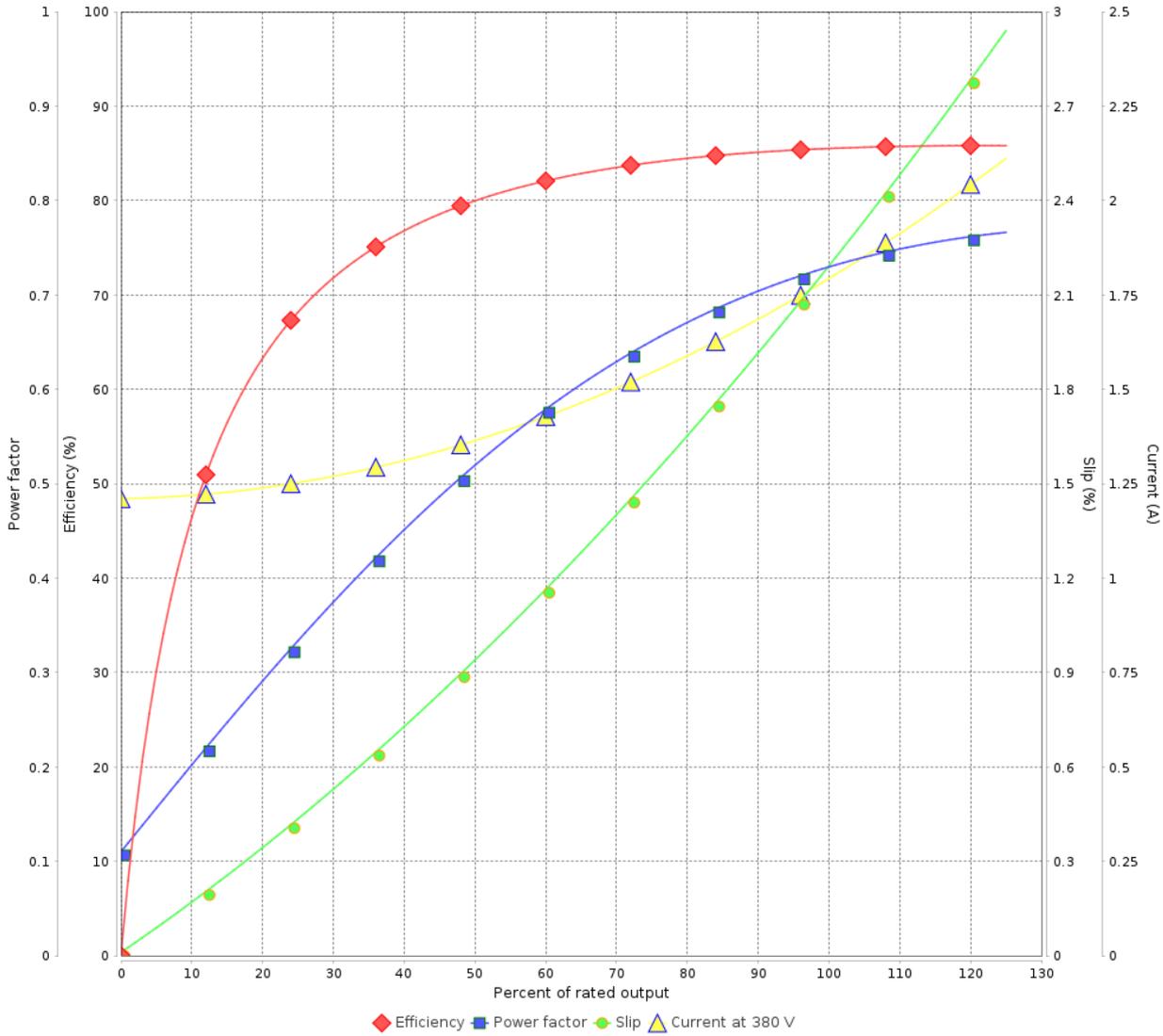
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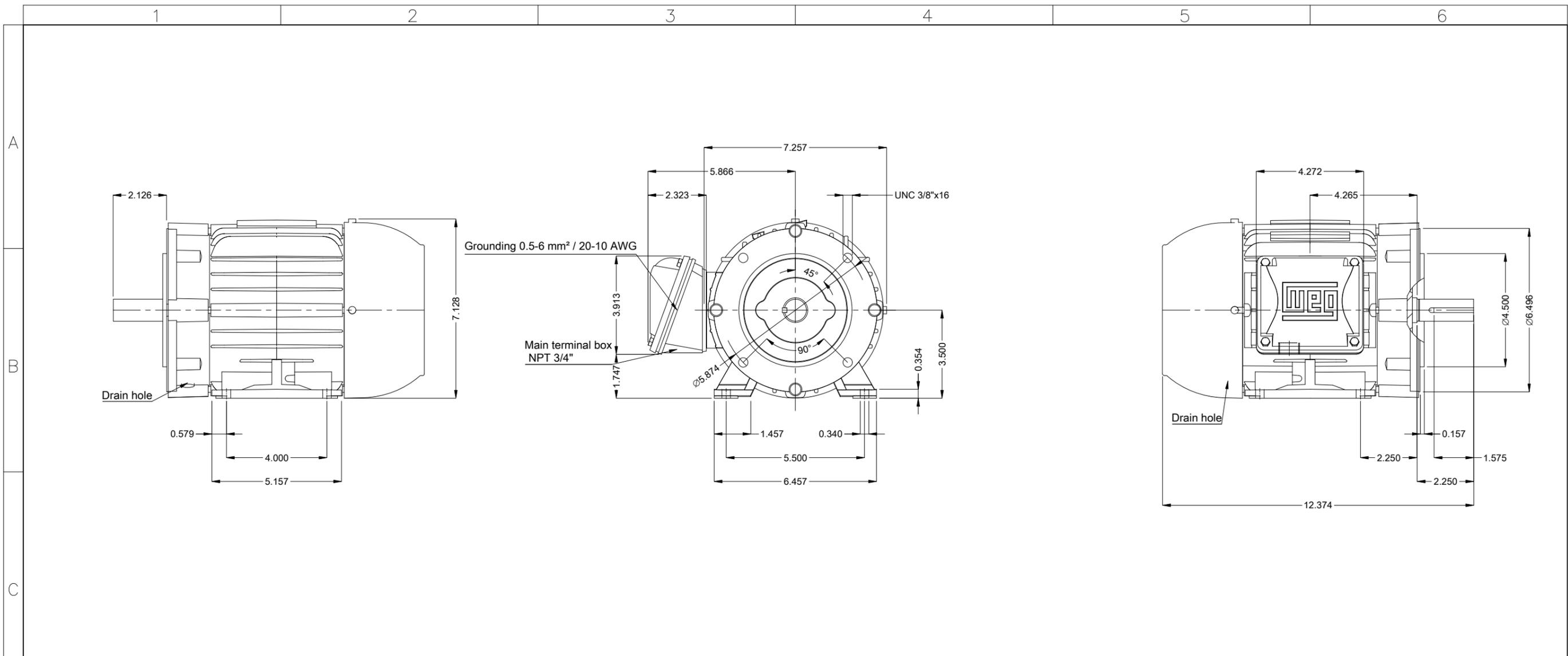
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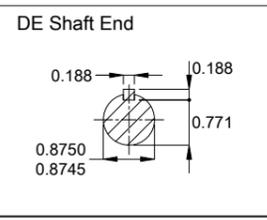


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				1 HP 04 Poles 60 Hz		A
				Scale		1 : 4
				HYBRISUSER		00
ECM	LOC	SUMMARY OF MODIFICATIONS		EXECUTED	CHECKED	RELEASED
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.				
CHECKED		FRAME 143TC IP55 TEFC				
RELEASED						
REL. DATE						

Grease - Mobil Polyrex EM
 Color RAL 5009
 Painting plan 207A
 Mounting NEMA F-1
 Mounting B34D



PREVIEW
 WDD 00
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