

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line		: W22 NEMA Premium Efficiency Three-Phase			Product code : 12468851	
Frame	: 404/5TS			Locked rotor time	: 23s (cold) 13s (hot)	
Output	: 100 HP (75 kW)			Temperature rise	: 80 K	
Poles	: 4			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	: 90.4 A			Protection degree	: IP55	
L. R. Amperes	: 660 A			Cooling method	: IC411 - TEFC	
LRC	: 7.3x(Code H)			Mounting	: F-1	
No load current	: 30.4 A			Rotation ¹	: Both (CW and CCW)	
Rated speed	: 1780 rpm			Noise level ²	: 68.0 dB(A)	
Slip	: 1.11 %			Starting method	: Direct On Line	
Rated torque	: 40.8 kgfm			Approx. weight ³	: 520 kg	
Locked rotor torque	: 240 %					
Breakdown torque	: 260 %					
Insulation class	: F					
Service factor	: 1.25					
Moment of inertia (J)	: 1.26 kgm ²					
Design	: B					
Output	25%	50%	75%	100%	Foundation loads	
Efficiency (%)	0.000	95.0	95.0	95.4	Max. traction : 784 kgf	
Power Factor	0.00	0.77	0.84	0.87	Max. compression : 1304 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)
4.7	3.8	3.7	2.2	1.5	0.9	0.6
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6314 C3		6314 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	12000 h		12000 h		
Lubricant amount	:	27 g		27 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					Page	Revision
Date	21/10/2024				1 / 2	

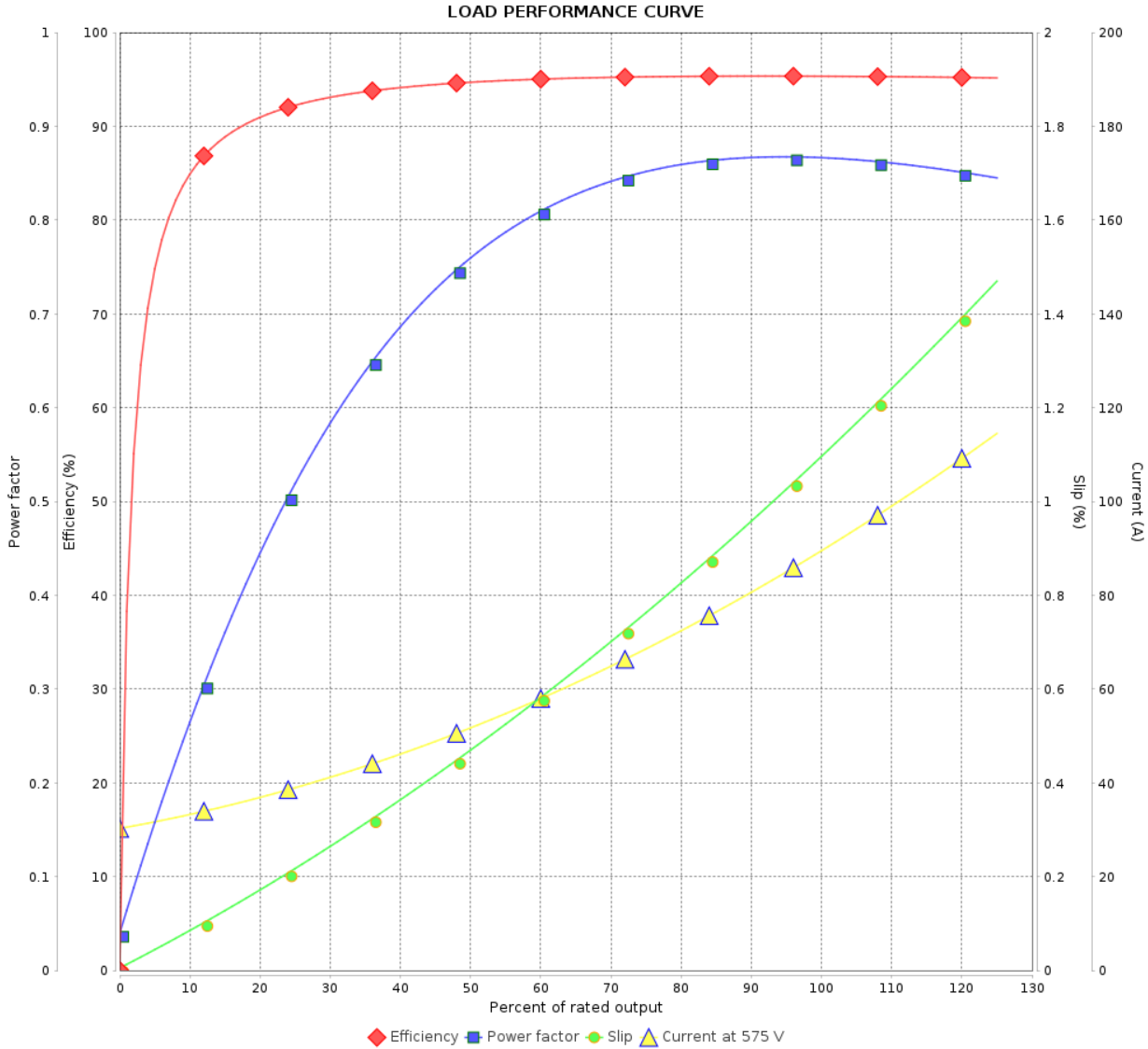
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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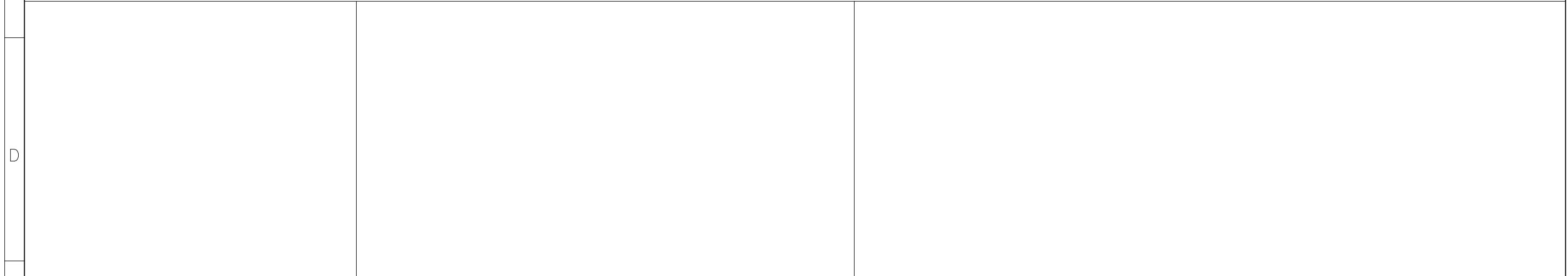
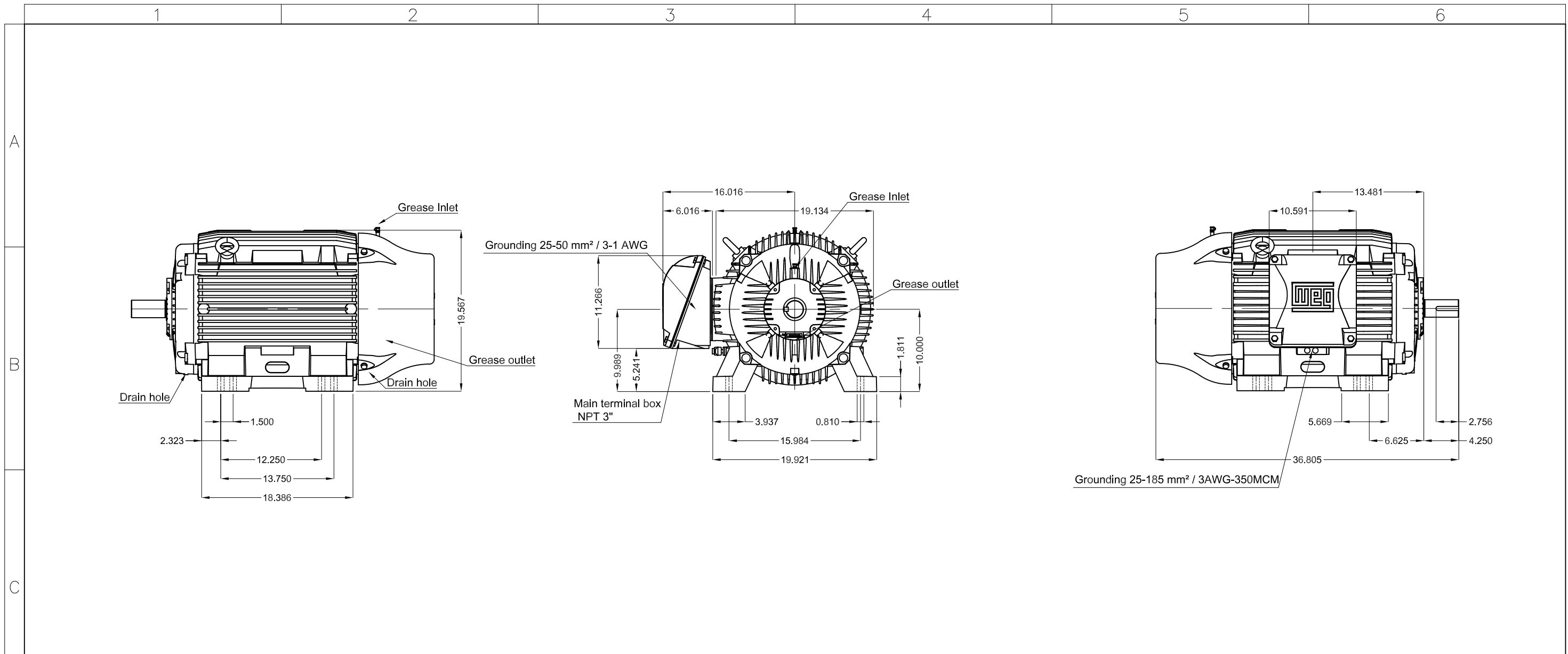
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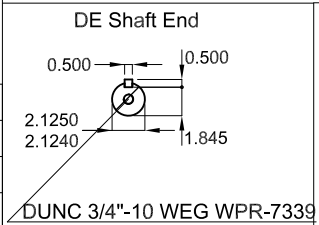
Performance : 575 V 60 Hz 4P

Rated current	: 90.4 A	Moment of inertia (J)	: 1.26 kgm ²
LRC	: 7.3	Duty cycle	: Cont.(S1)
Rated torque	: 40.8 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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TS shaft end
Color RAL 5009
Painting plan 203A
Mounting B3R(D)



100 HP 04 Poles 60 Hz											A		
ECM	LOC	SUMMARY OF MODIFICATIONS							HYBRISUSER			00	
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 404/5TS IP55 TEFC							EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED													
RELEASED													
REL. DATE													
								PREVIEW				WEG	
								WDD		00			
								SHEET		/			