

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :						
Product line : W22 NEMA Premium Efficiency Three-Phase			Product code : 14682921			
Frame	: 447/9T		Locked rotor time	: 18s (cold) 10s (hot)		
Output	: 300 HP (220 kW)		Temperature rise	: 80 K		
Poles	: 6		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	: 285 A		Protection degree	: IP55		
L. R. Amperes	: 2193 A		Cooling method	: IC411 - TEFC		
LRC	: 7.7x(Code J)		Mounting	: F-1		
No load current	: 136 A		Rotation ¹	: Both (CW and CCW)		
Rated speed	: 1189 rpm		Noise level ²	: 70.0 dB(A)		
Slip	: 0.92 %		Starting method	: Direct On Line		
Rated torque	: 183 kgfm		Approx. weight ³	: 1380 kg		
Locked rotor torque	: 270 %					
Breakdown torque	: 300 %					
Insulation class	: F					
Service factor	: 1.00					
Moment of inertia (J)	: 6.09 kgm ²					
Design	: A					
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.4	95.8	95.8	Max. traction : 4115 kgf		
Power Factor	0.63	0.75	0.81	Max. compression : 5496 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)
5.2	4.3	3.7	3.0	2.3	1.8	1.1
		<u>Drive end</u>		<u>Non drive end</u>		
Bearing type	:	6322 C3		6319 C3		
Sealing	:	WSeal		WSeal		
Lubrication interval	:	11000 h		13000 h		
Lubricant amount	:	60 g		45 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						
Date	15/01/2024				Page	Revision
					1 / 2	

LOAD PERFORMANCE CURVE

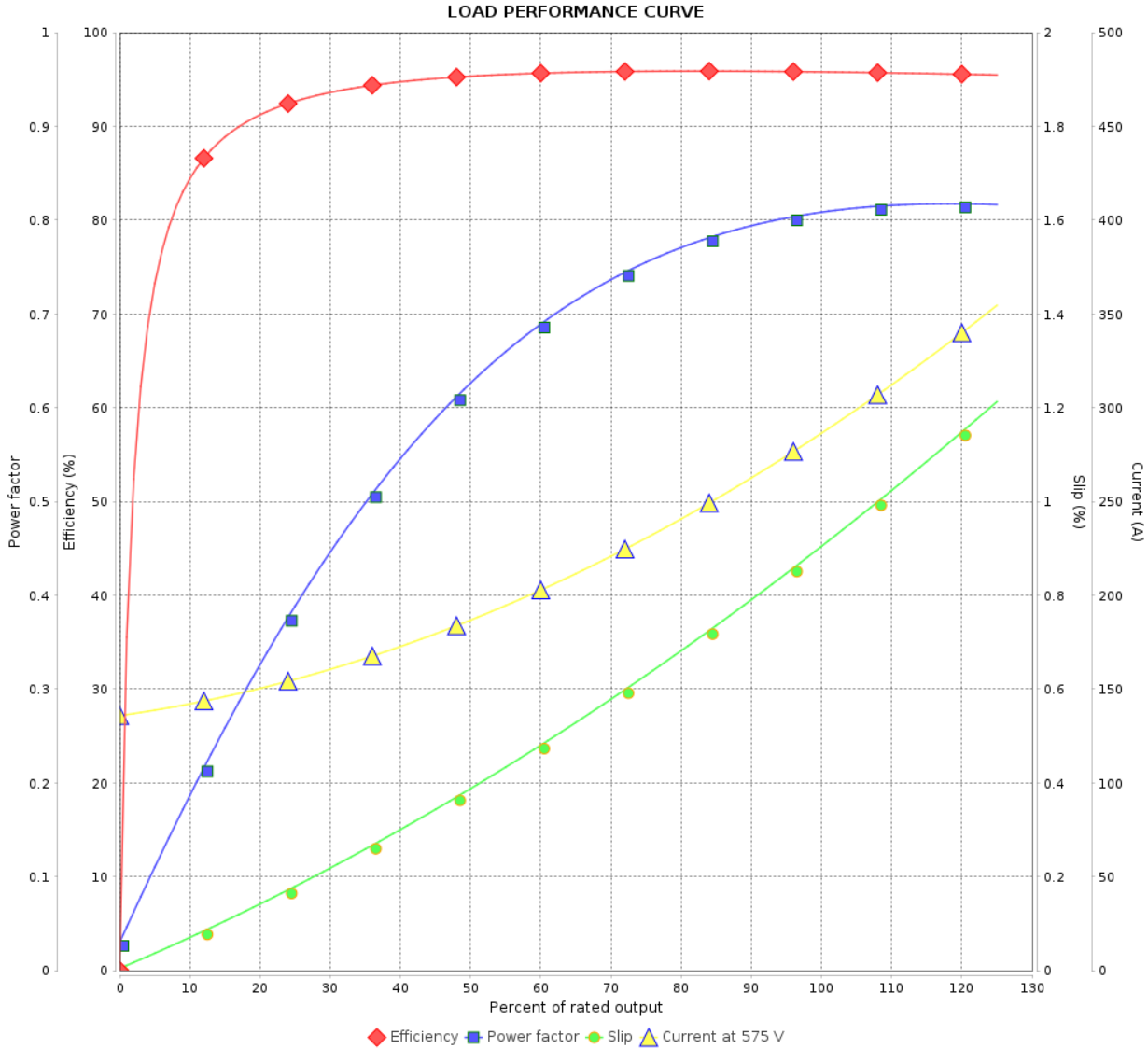
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14682921

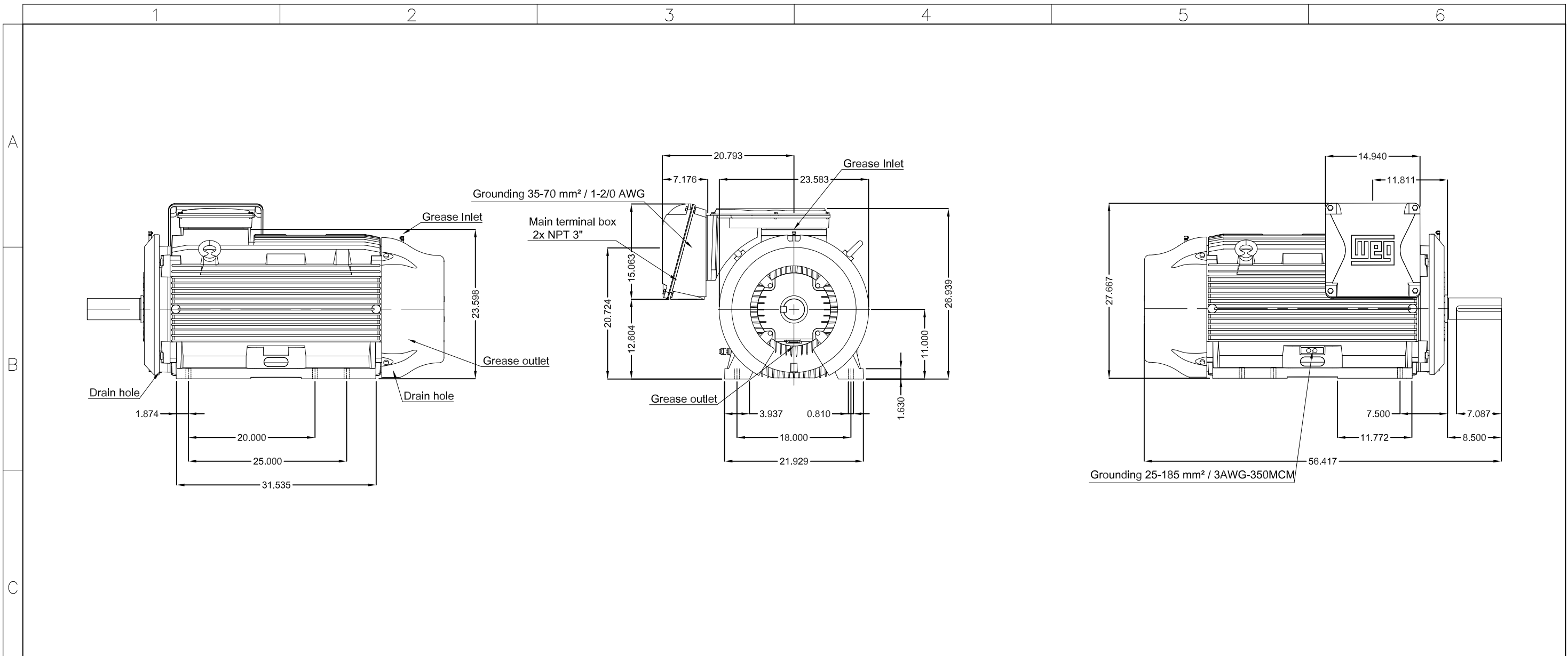


Performance : 575 V 60 Hz 6P

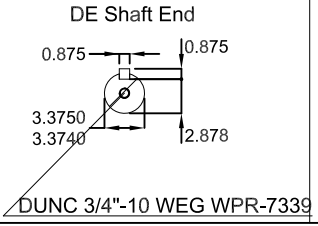
Rated current : 285 A
 LRC : 7.7
 Rated torque : 183 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1189 rpm

Moment of inertia (J) : 6.09 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : A

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 2	Revision
Checked by				
Date	15/01/2024			



Drive-End Air Deflector
 Color RAL 5009
 Painting plan 203A
 Mounting NEMA F-1
 Mounting B3R(D)



DUNC 3/4"-10 WEG WPR-7339

300 HP 06 Poles 60 Hz A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.					
CHECKED		FRAME 447/9T IP55 TEFC					
RELEASED							
REL. DATE							

HYBRISUSER					00
EXECUTED	CHECKED	RELEASED	DATE	VER	

PREVIEW
 WDD 00
 SHEET /