

# 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 <sup>1</sup>	:	Both (CW and CCW)
Rated speed	:	1189 rpm		Noise level <sup>2</sup>	:	70.0 dB(A)
Slip	:	0.92 %		Starting method	:	Direct On Line
Rated torque	:	183 kgfm		Approx. weight <sup>3</sup>	:	1379 kg
Locked rotor torque	:	270 %				
Breakdown torque	:	300 %				
Insulation class	:	F				
Service factor	:	1.00				
Moment of inertia (J)	:	6.09 kgm <sup>2</sup>				
Design	:	A				
Output	50%	75%	100%	Foundation loads		
Efficiency (%)	95.4	95.8	95.8	Max. traction	:	4116 kgf
Power Factor	0.63	0.75	0.81	Max. compression	:	5495 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					Page	Revision
Date	29/10/2024				1 / 2	

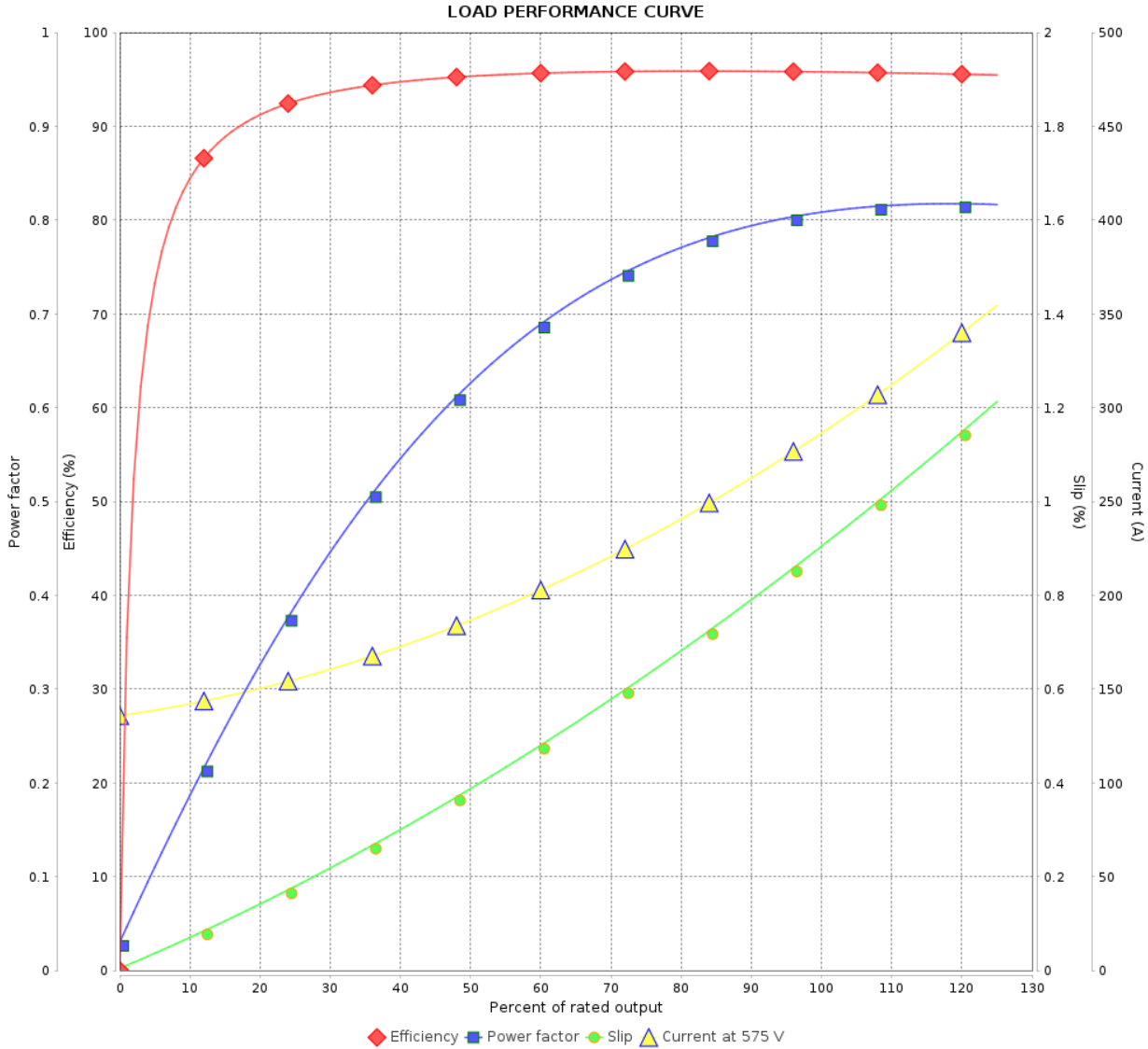
# LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage



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

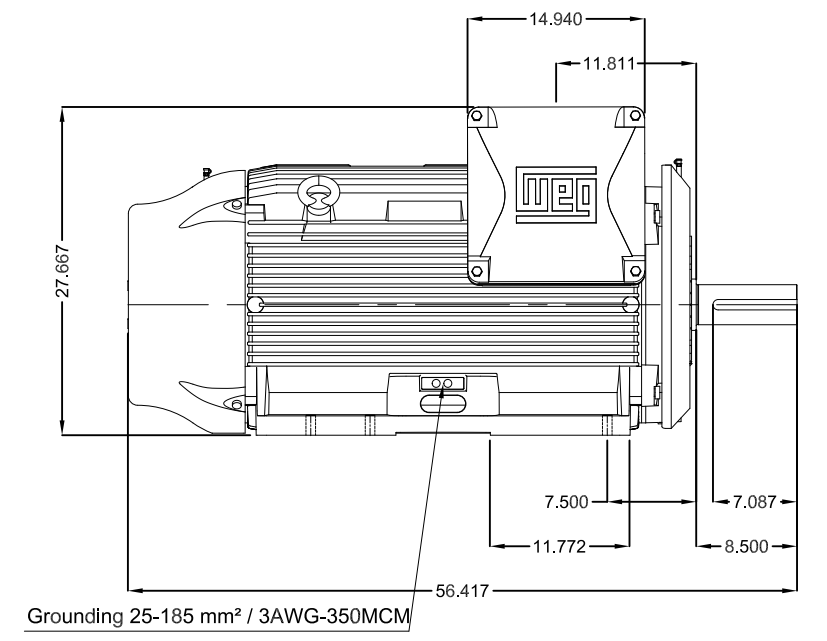
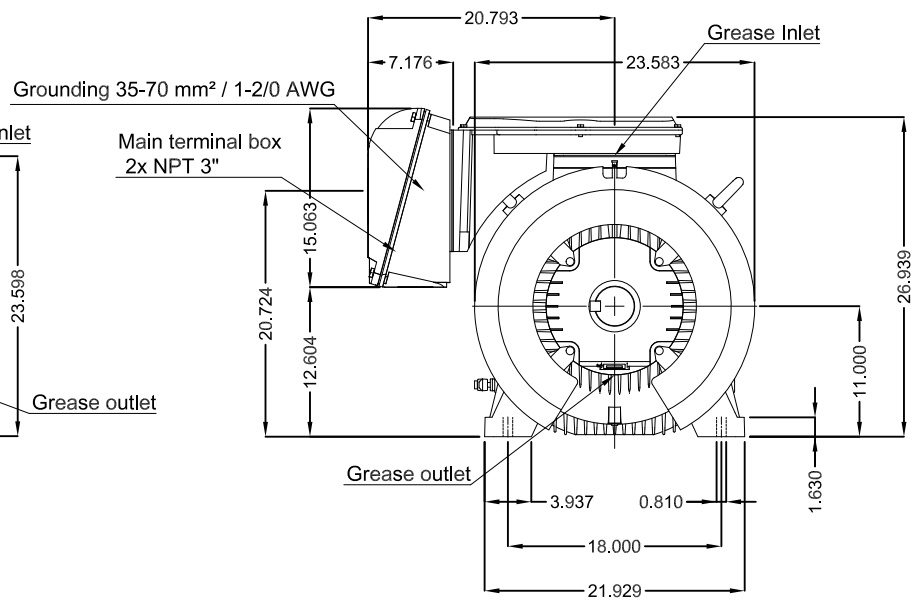
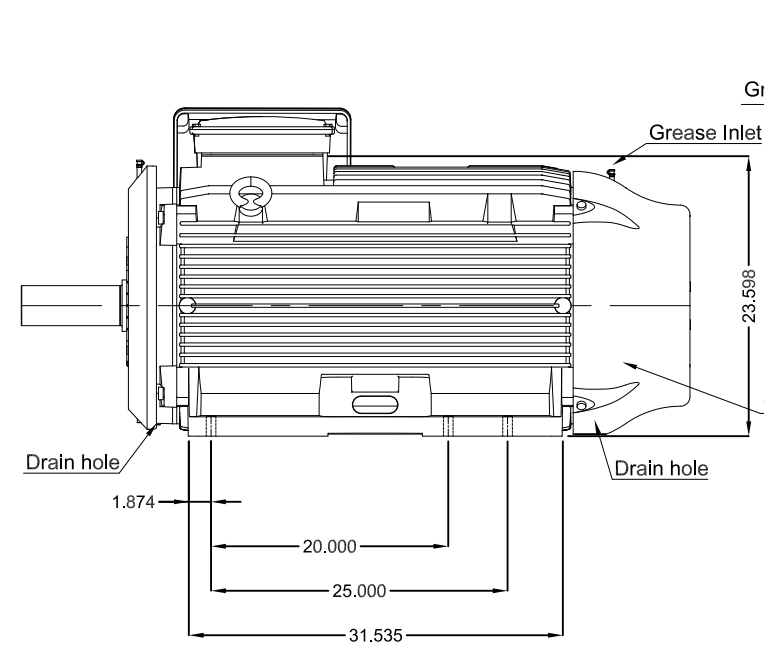
Product line : W22 NEMA Premium Efficiency Three-Phase      Product code : 14682921



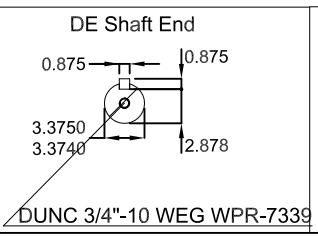
Performance : 575 V 60 Hz 6P

Rated current	: 285 A	Moment of inertia (J)	: 6.09 kgm <sup>2</sup>
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 183 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1189 rpm	Design	: A

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



300 HP 06 Poles 60 Hz										A	
ECM	LOC	SUMMARY OF MODIFICATIONS					HYBRISUSER				00
EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.					EXECUTED	CHECKED	RELEASED	DATE	VER
CHECKED		FRAME 447/9T IP55 TEFC									
RELEASED											
REL. DATE											
						PREVIEW		WDD 00			
						SHEET /					