DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 14682921

Frame	: 447/9T
Output	: 300 HP (220 kW)
Poles	: 6
Frequency	: 60 Hz
Rated voltage	: 575 V
Rated current	: 285 A
L. R. Amperes	: 2193 A
LRC	: 7.7x(Code J)
No load current	: 136 A
Rated speed	: 1189 rpm
Slip	: 0.92 %
Rated torque	: 183 kgfm
Locked rotor torque	: 270 %
Breakdown torque	: 300 %
Insulation class	: F
Service factor	: 1.00
Moment of inertia (J)	: 6.09 kgm²
Design	: A

Locked rotor time	: 18s (cold) 10s (hot)
Temperature rise	: 80 K
Duty cycle	: Cont.(S1)
Ambient temperature	: -20°C to +40°C
Altitude	: 1000 m.a.s.l.
Protection degree	: IP55
Cooling method	: IC411 - TEFC
Mounting	: F-1
Rotation[1]	: Both (CW and CCW)
Noise level[2]	: 70.0 dB(A)
Starting method	: Direct On Line
Approx. weight[3]	: 1379 kg

Output	50%	75%	100%
Efficiency (%)	95.4	95.8	95.8
Power Factor	0.63	0.75	0.81

Foundation loads

Max. traction	: 4116 kgf
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

		Drive end	Non drive end
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	

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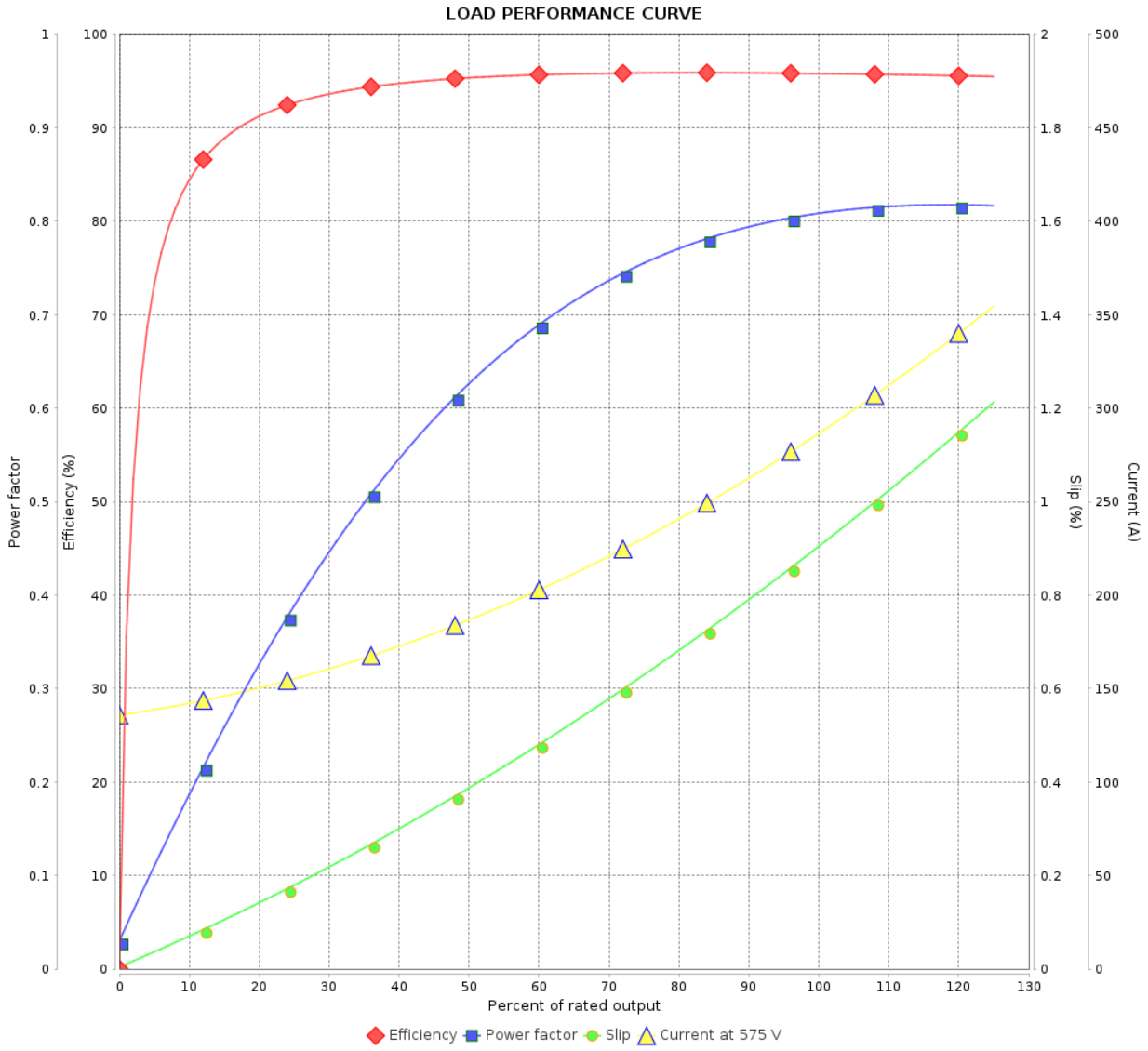
LOAD PERFORMANCE CURVE

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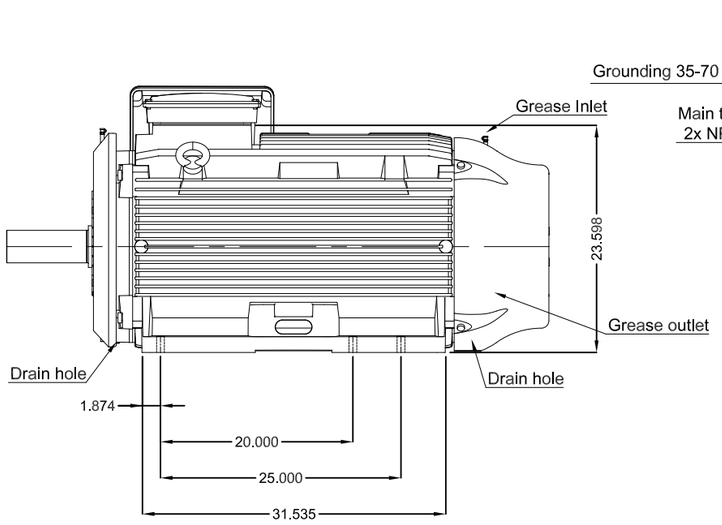
Performance	: 575 V 60 Hz 6P

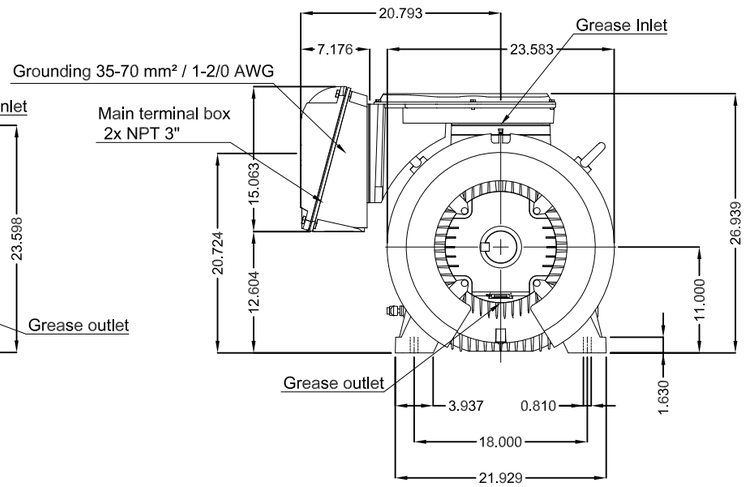
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LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 183 kgfm	Insulation class	: F
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Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1189 rpm	Design	: A

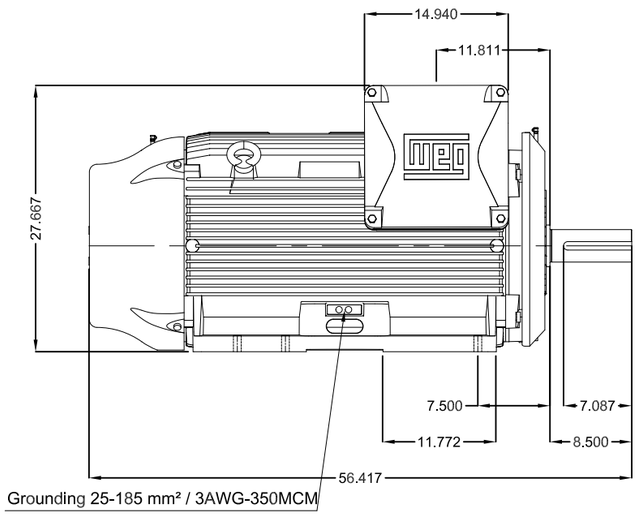
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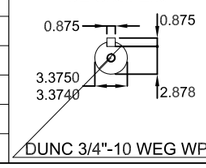






Drive-End Air Deflector
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B3R(D)

DE Shaft End



300 HP 06 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 447/9T IP55 TEFC	WDD 00
RELEASED			
REL. DATE			SHEET /

Dimensions in inches

A3

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