

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 13276769

Frame	: L447/9T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 1644 kg
Protection degree	: IP55	Moment of inertia (J)	: 11.7 kgm ²

Output [HP]	400	350	350	350
Poles	6	6	6	6
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	477	497	478	472
L. R. Amperes [A]	3291	3081	3346	3540
LRC [A]	6.9x(Code H)	6.2x(Code G)	7.0x(Code H)	7.5x(Code J)
No load current [A]	200	190	210	225
Rated speed [RPM]	1190	990	990	990
Slip [%]	0.83	1.00	1.00	1.00
Rated torque [kgfm]	244	257	257	257
Locked rotor torque [%]	240	200	220	240
Breakdown torque [%]	250	240	260	280
Service factor	1.00	1.00	1.00	1.00
Temperature rise	105 K	105 K	105 K	105 K
Locked rotor time	23s (cold) 13s (hot)	32s (cold) 18s (hot)	28s (cold) 16s (hot)	25s (cold) 14s (hot)
Noise level ²	71.0 dB(A)	70.0 dB(A)	70.0 dB(A)	70.0 dB(A)
Efficiency (%)	25%			
	50%	95.4	95.4	95.0
	75%	95.8	95.8	95.4
	100%	95.8	95.8	95.8
Power Factor	25%			
	50%	0.68	0.70	0.62
	75%	0.78	0.80	0.74
	100%	0.82	0.83	0.80

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	5.1	5.1	5.1
	P2 (0,5;1,0)	3.8	3.8	3.8
	P3 (0,25;1,0)	3.4	3.4	3.4
	P4 (0,9;0,5)	2.9	2.9	2.9
	P5 (0,5;0,5)	1.9	1.9	1.9
	P6 (0,5;0,25)	1.4	1.4	1.4
	P7 (0,25;0,25)	0.8	0.8	0.8

	Drive end	Non drive end	Foundation loads
Bearing type	: NU-322 C3	6319 C3	Max. traction : 5463 kgf
Sealing	: WSeal	WSeal	Max. compression : 7107 kgf
Lubrication interval	: 7000 h	13000 h	
Lubricant amount	: 60 g	45 g	
Lubricant type	: Mobil Polyrex EM		

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.

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Checked by				
Date	21/10/2024			

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Three Phase Induction Motor - Squirrel Cage



Customer :

Notes

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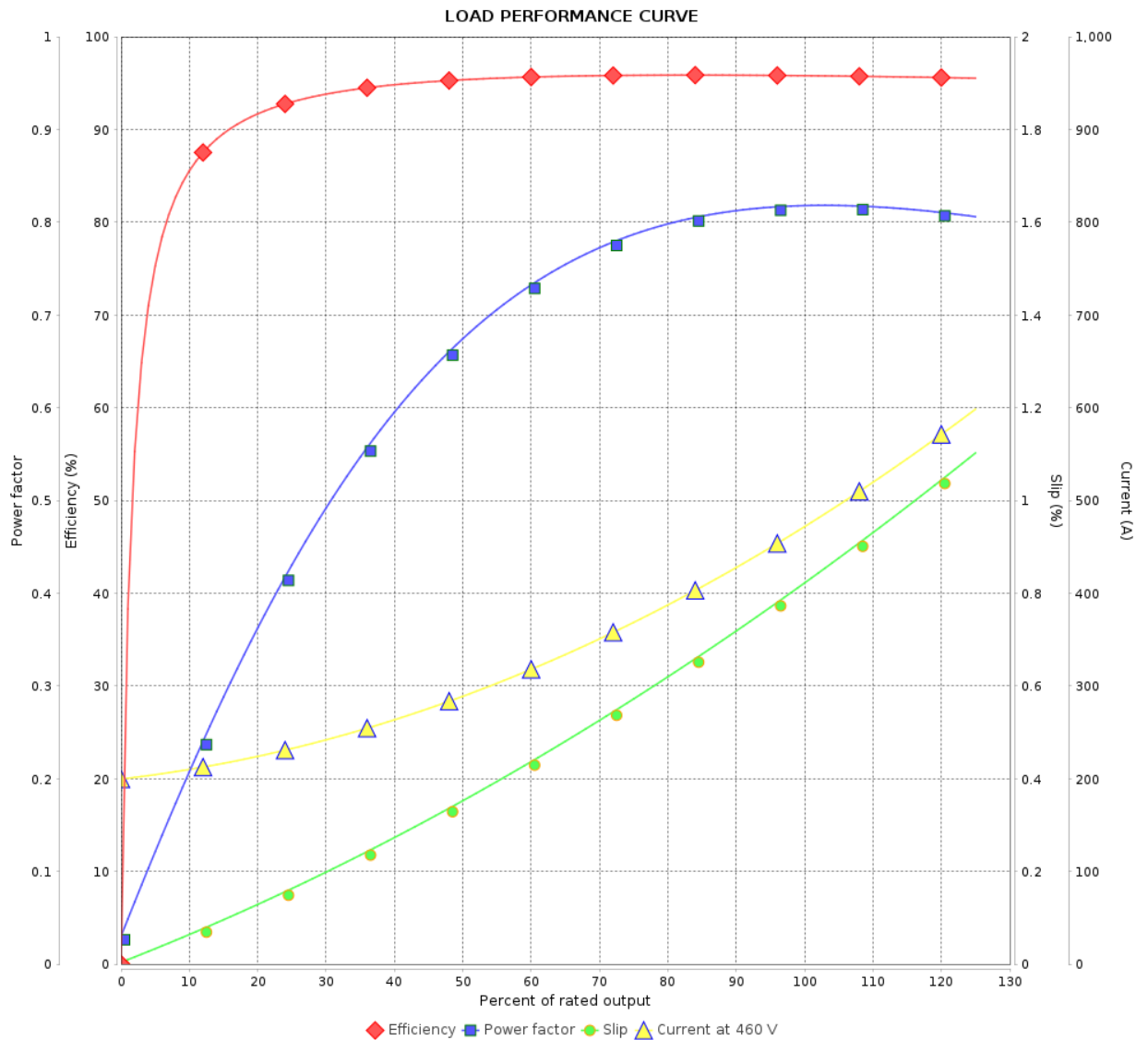
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 13276769



Performance : 460 V 60 Hz 6P

Rated current : 477 A
LRC : 6.9
Rated torque : 244 kgfm
Locked rotor torque : 240 %
Breakdown torque : 250 %
Rated speed : 1190 rpm

Moment of inertia (J) : 11.7 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

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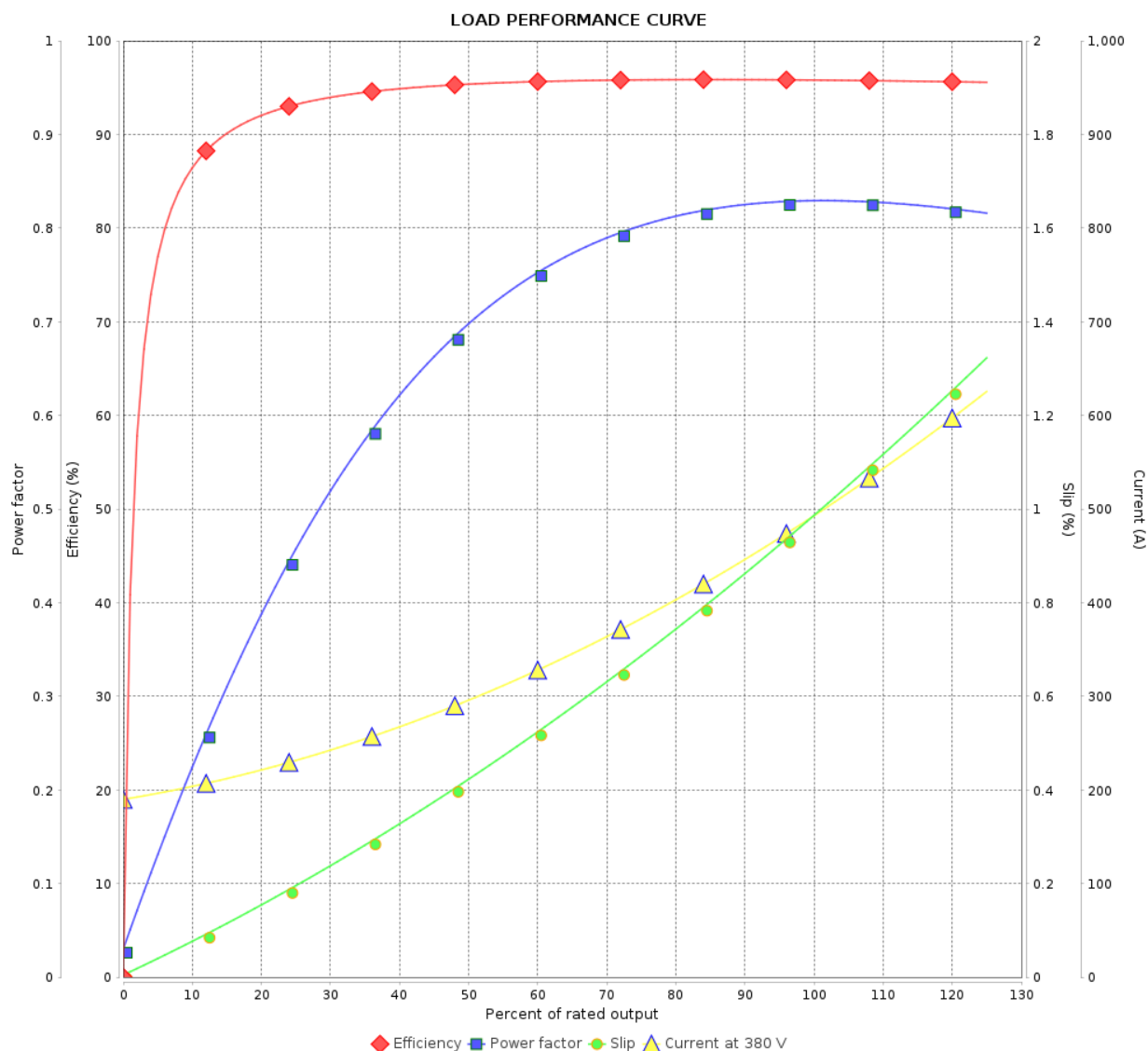
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 13276769



Performance : 380 V 50 Hz 6P IE3

Rated current : 497 A
LRC : 6.2
Rated torque : 257 kgfm
Locked rotor torque : 200 %
Breakdown torque : 240 %
Rated speed : 990 rpm

Moment of inertia (J) : 11.7 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

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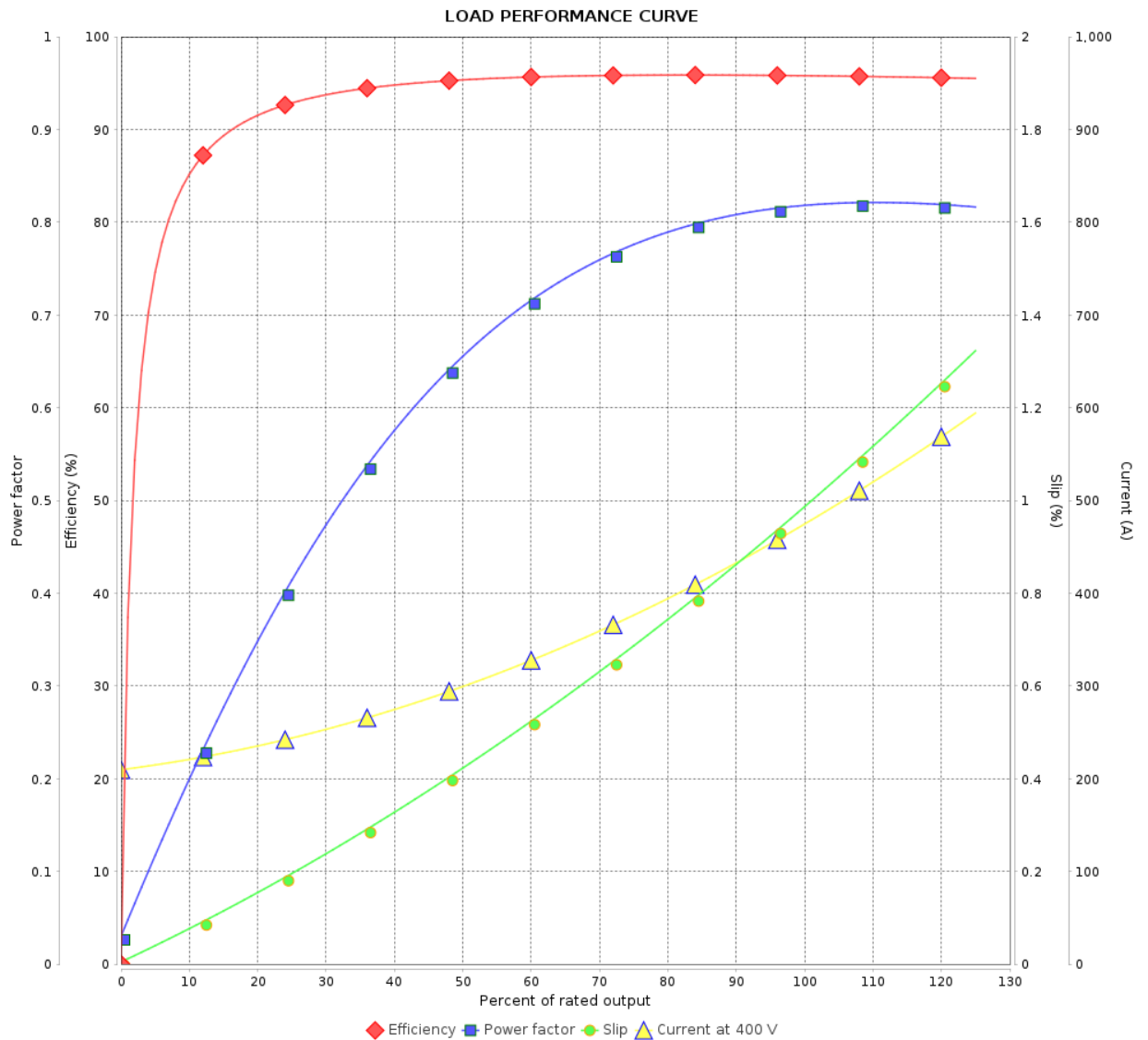
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 13276769



Performance : 400 V 50 Hz 6P IE3

Rated current : 478 A
LRC : 7.0
Rated torque : 257 kgfm
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 990 rpm

Moment of inertia (J) : 11.7 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

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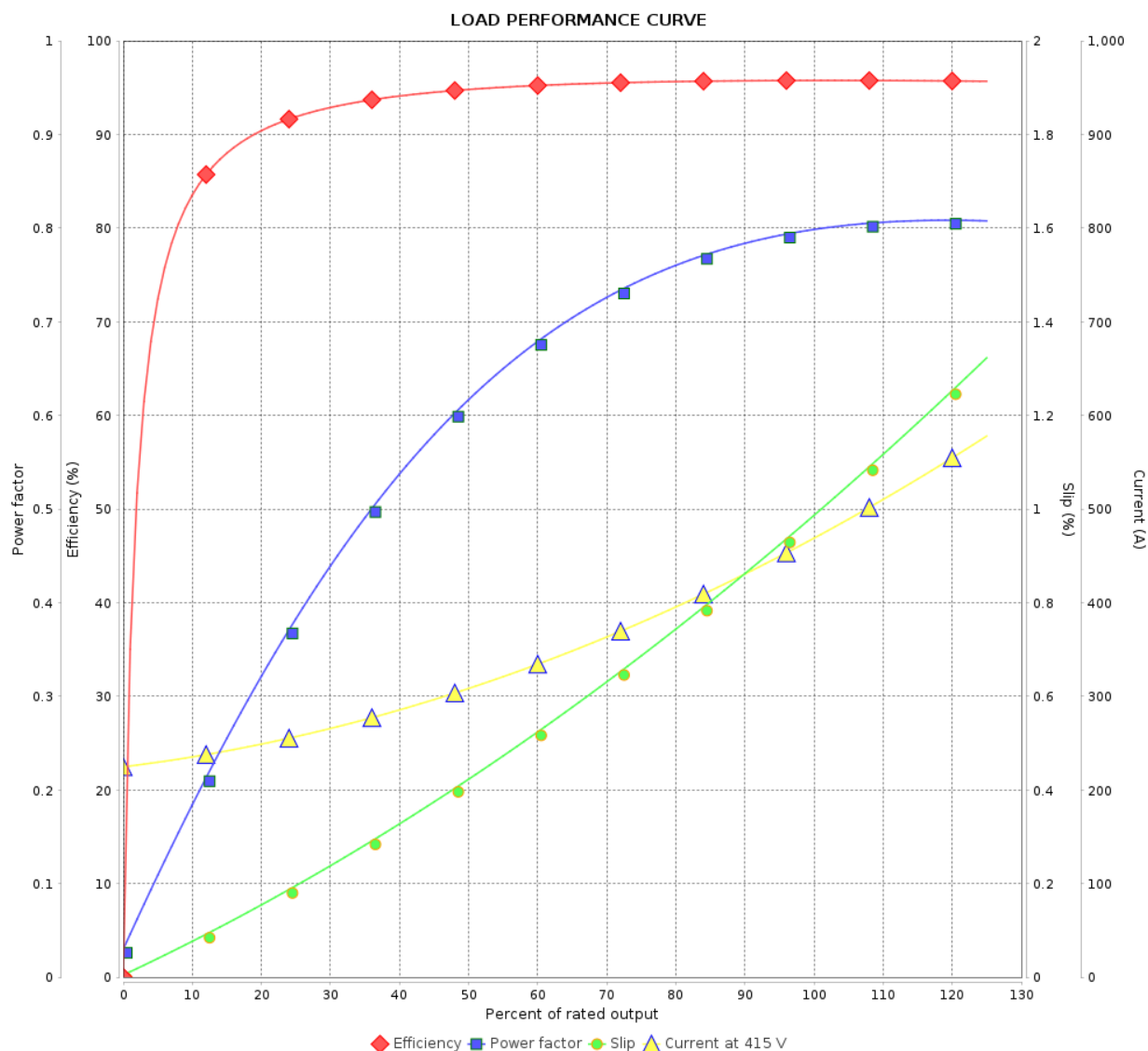
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Product code : 13276769

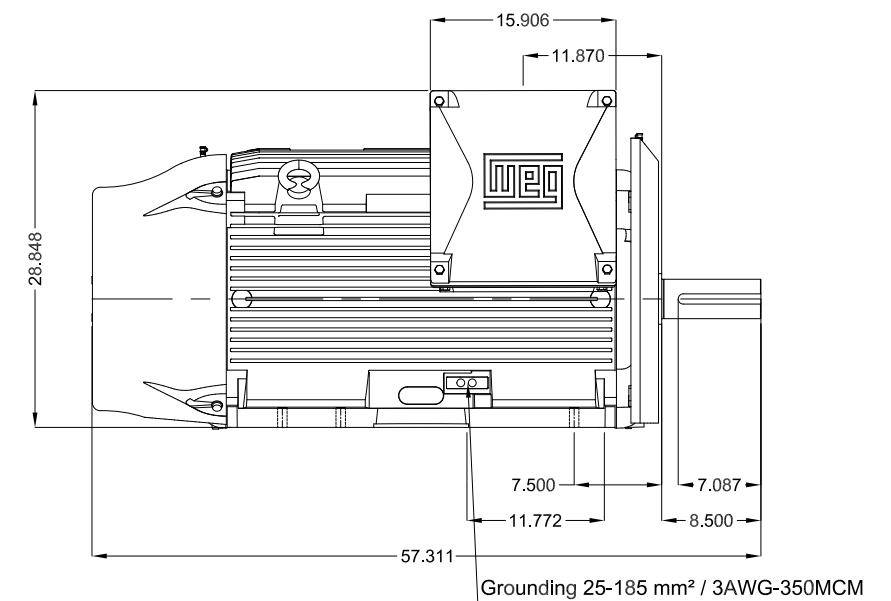
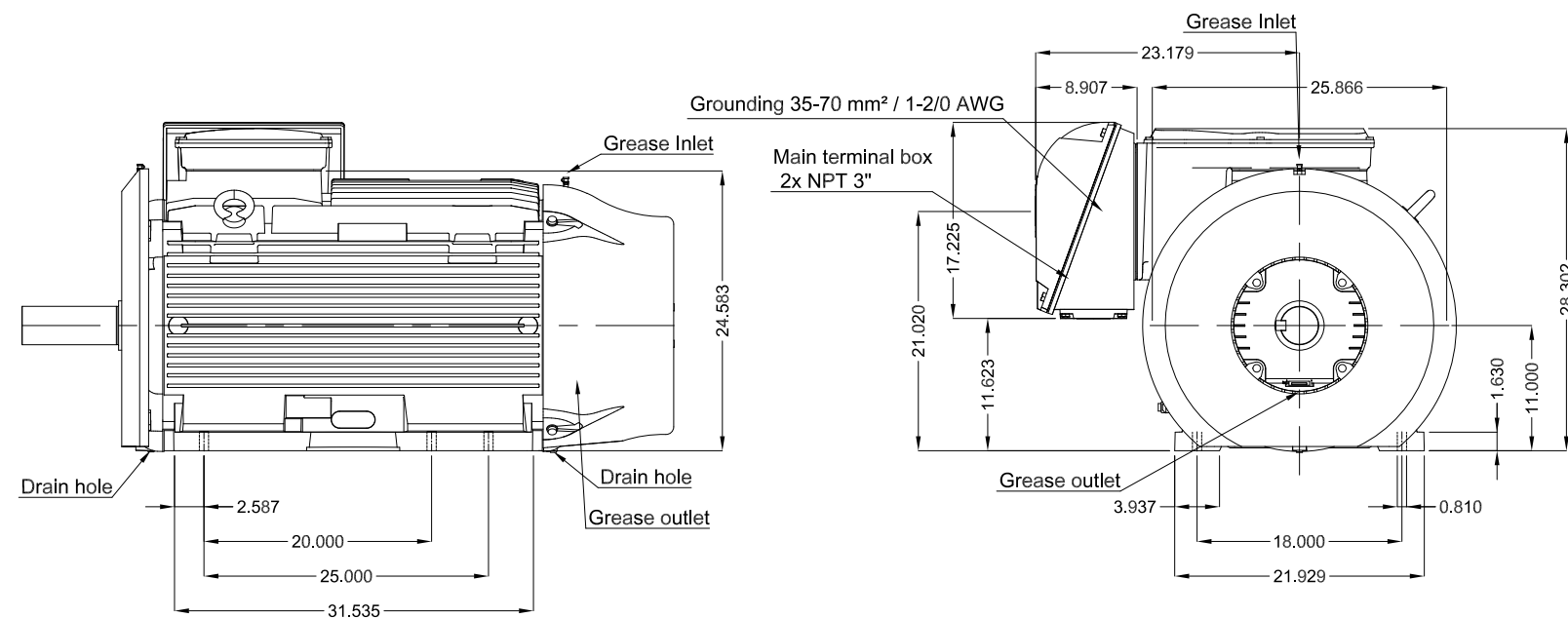


Performance : 415 V 50 Hz 6P IE3

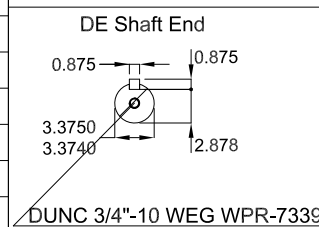
Rated current : 472 A
LRC : 7.5
Rated torque : 257 kgfm
Locked rotor torque : 240 %
Breakdown torque : 280 %
Rated speed : 990 rpm



Moment of inertia (J) : 11.7 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K

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DE roller bearing
Shaft locking device
NDE endshield with electrically insulated bearing hub
Drive-End Air Deflector
Color RAL 5009
Painting plan 203A
Mounting NEMA F-1
Mounting B3R(D)



400 HP 06 Poles 60 Hz										A		
					HYBRISUSER							
									00			
ECM		LOC	SUMMARY OF MODIFICATIONS				EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED		HYBRISUSER		THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME L447/9T IP55 TEFC				PREVIEW				
CHECKED								WDD		00		
RELEASED												
REL. DATE								SHEET		/		