DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11989184

Frame	: 180M	Locked rotor time	: 19s (cold) 11s (hot)
Output	: 30 HP (22 kW)	Temperature rise	: 80 K
Poles	: 2	Duty cycle	: S1
Frequency	: 60 Hz	Ambient temperature	: -20°C to +40°C
Rated voltage	: 575 V	Altitude	: 1000 m.a.s.l.
Rated current	: 28.2 A	Protection degree	: IP55
L. R. Amperes	: 273 A	Cooling method	: IC411 - TEFC
LRC	: 9.7	Mounting	: B35L(E)
No load current	: 11.2 A	Rotation¹	: Both (CW and CCW)
Rated speed	: 3565 rpm	Noise level²	: 72.0 dB(A)
Slip	: 0.97 %	Starting method	: Direct On Line
Rated torque	: 6.11 kgfm	Approx. weight³	: 188 kg
Locked rotor torque	: 380 %		
Breakdown torque	: 380 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1192 kgm²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	90.2	91.7	92.4
Power Factor	0.71	0.81	0.85

Foundation loads

Max. traction	: 238 kgf
Max. compression	: 426 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)
7.7	5.5	4.8	4.7	2.7	2.0	1.2

		Drive end	Non drive end
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	14000 h	17000 h
Lubricant amount	:	18 g	11 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

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Date	25/10/2024		1 / 2	

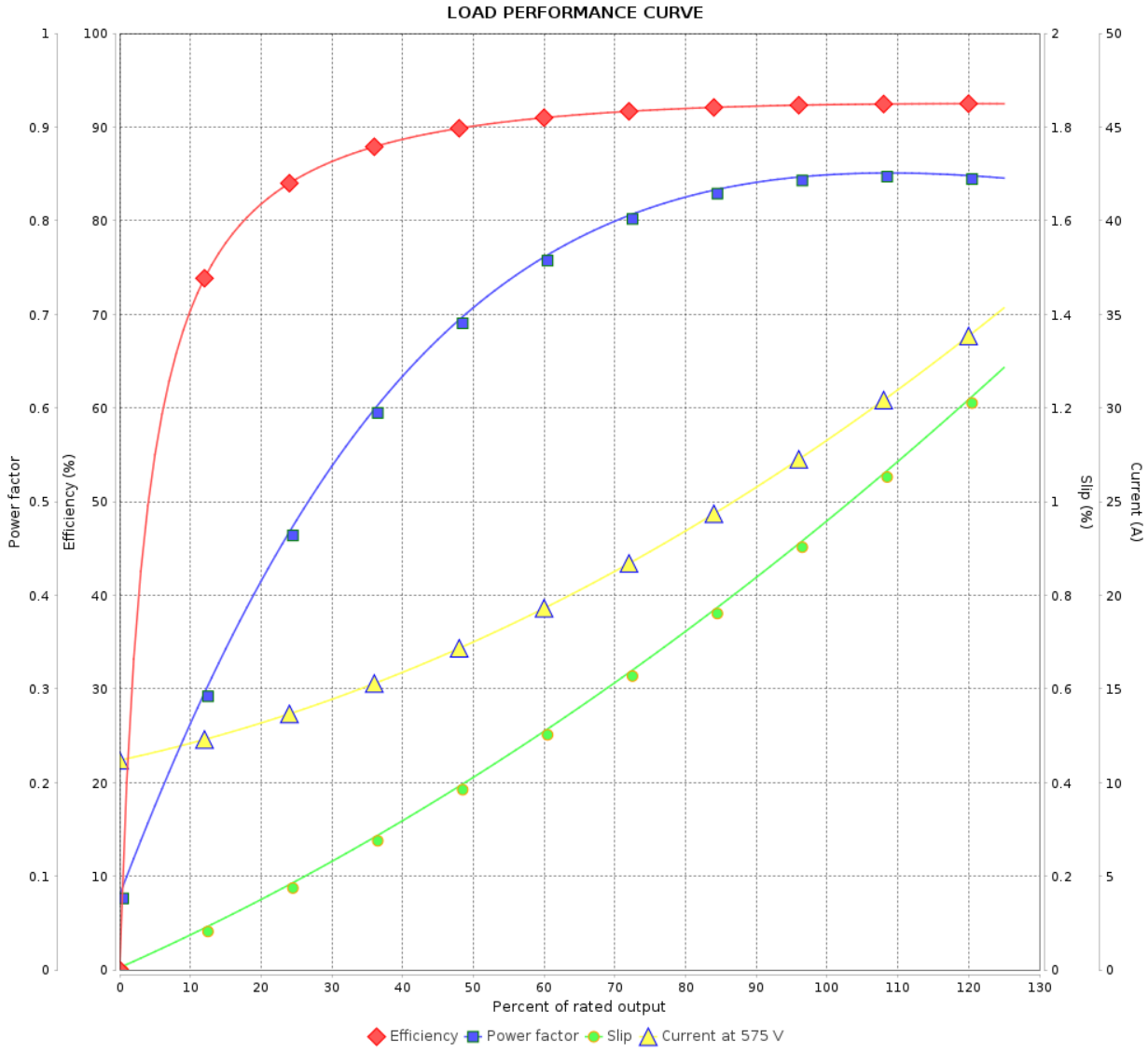
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 11989184

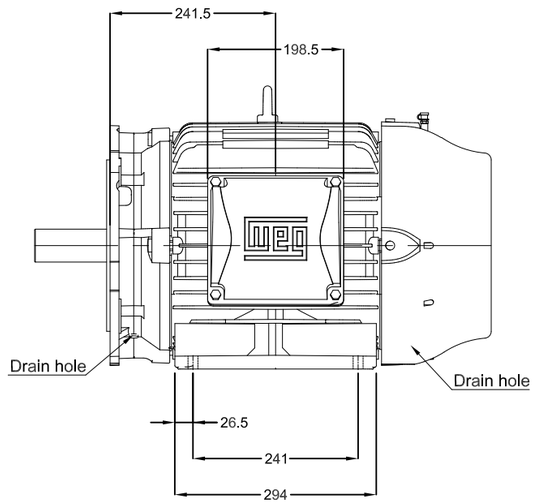


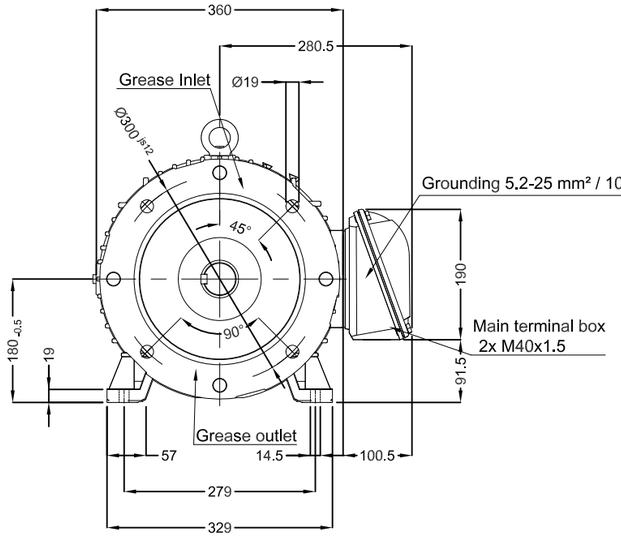
Performance	: 575 V 60 Hz 2P		
Rated current	: 28.2 A	Moment of inertia (J)	: 0.1192 kgm²
LRC	: 9.7	Duty cycle	: S1
Rated torque	: 6.11 kgfm	Insulation class	: F
Locked rotor torque	: 380 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3565 rpm	Design	: N

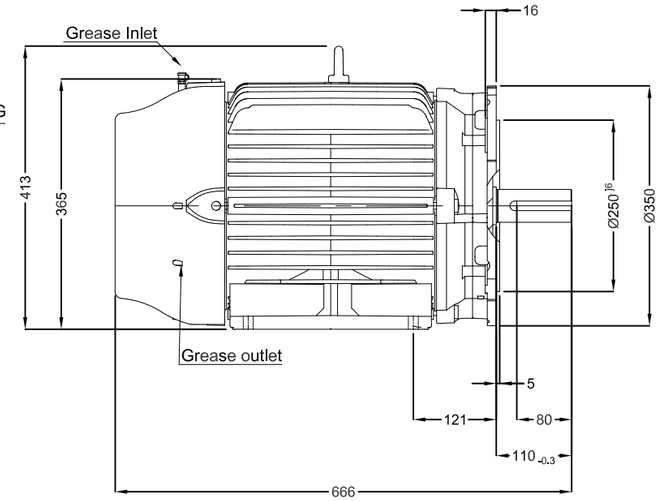
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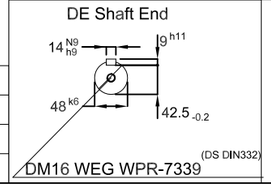






Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B35L(E)

DE Shaft End



30 HP 02 Poles 60 Hz | A

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR W22 IE3	PREVIEW
CHECKED		FRAME 180M IP55 TEFC	WDD 00
RELEASED			
REL. DATE			SHEET /

Dimensions in mm

A3

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