DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12082757

Frame	: 160L	Locked rotor time	: 39s (cold) 22s (hot)
Output	: 20 HP (15 kW)	Temperature rise	: 80 K
Poles	: 4	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	: 20.0 A	Protection degree	: IP55
L. R. Amperes	: 166 A	Cooling method	: IC411 - TEFC
LRC	: 8.3	Mounting	: B35L(E)
No load current	: 8.80 A	Rotation[1]	: Both (CW and CCW)
Rated speed	: 1778 rpm	Noise level[2]	: 64.0 dB(A)
Slip	: 1.22 %	Starting method	: Direct On Line
Rated torque	: 8.16 kgfm	Approx. weight[3]	: 157 kg
Locked rotor torque	: 300 %		
Breakdown torque	: 330 %		
Insulation class	: F		
Service factor	: 1.25		
Moment of inertia (J)	: 0.1214 kgm²		
Design	: N		

Output	50%	75%	100%
Efficiency (%)	91.0	91.7	93.0
Power Factor	0.62	0.74	0.81

Foundation loads

Max. traction : 345 kgf

Max. compression : 502 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)
7.2	5.5	4.9	4.2	2.7	2.0	1.3

		Drive end	Non drive end
Bearing type	:	6309 C3	6209 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	13 g	9 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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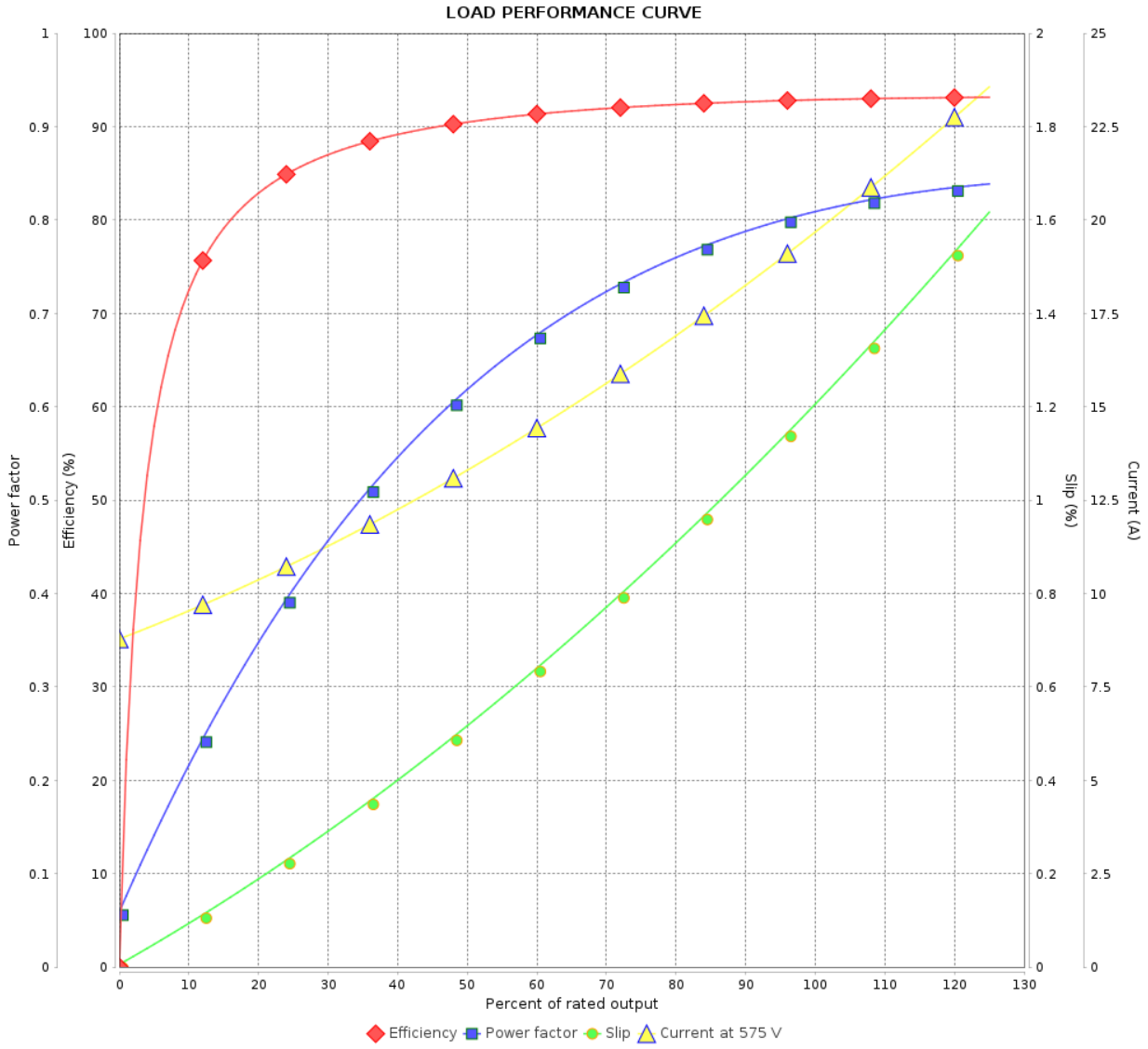
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LOAD PERFORMANCE CURVE

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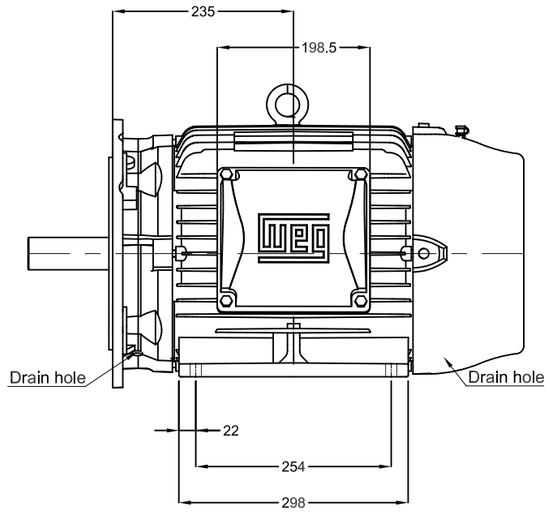


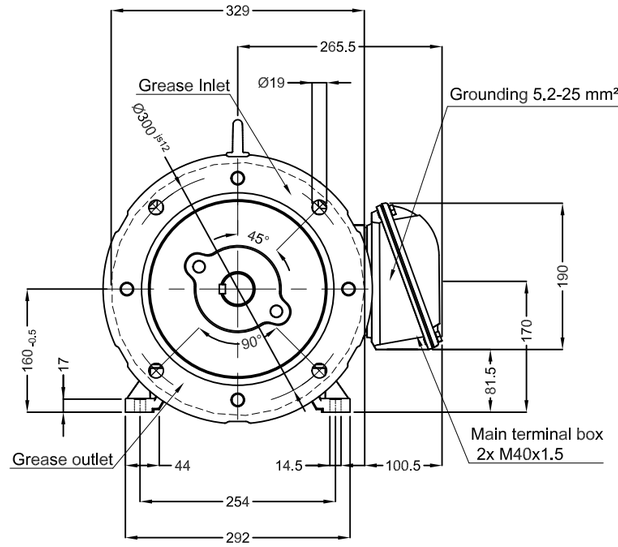
Performance	: 575 V 60 Hz 4P		
Rated current	: 20.0 A	Moment of inertia (J)	: 0.1214 kgm²
LRC	: 8.3	Duty cycle	: S1
Rated torque	: 8.16 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1778 rpm	Design	: N

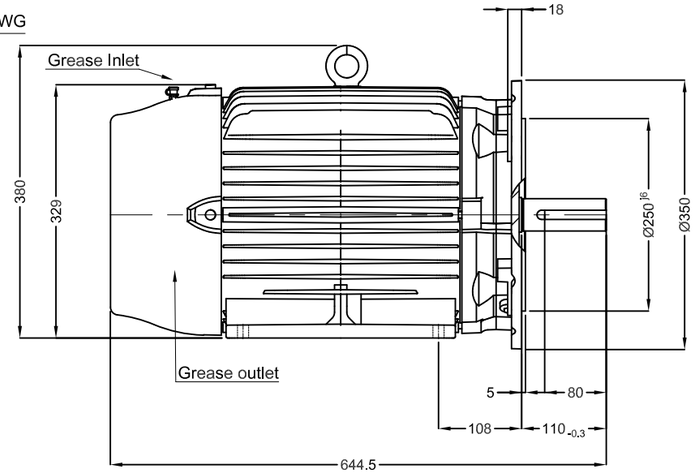
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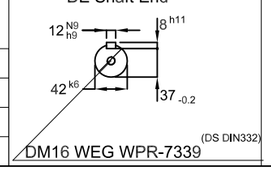






Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B35L(E)

DE Shaft End



20 HP 04 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 160L IP55 TEFC	WDD 00
RELEASED			SHEET /
REL. DATE			

Dimensions in mm

A3

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