DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12645345

Frame	: 160M	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B3L(E)
Duty cycle	: S1	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 139 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.1004 kgm²
Design	: N		

Output [HP]		15	15	15
Poles		4	4	4
Frequency [Hz]		50	50	60
Rated voltage [V]		380	415	230/460
Rated current [A]		21.5	20.7	36.4/18.2
L. R. Amperes [A]		161	176	309/155
LRC [A]		7.5	8.5	8.5
No load current [A]		9.00	10.2	18.2/9.08
Rated speed [RPM]		1470	1476	1780
Slip [%]		2.00	1.60	1.11
Rated torque [kgfm]		7.41	7.38	6.12
Locked rotor torque [%]		220	270	300
Breakdown torque [%]		250	310	330
Service factor		1.00	1.00	1.25
Temperature rise		80 K	80 K	80 K
Locked rotor time		25s (cold) 14s (hot)	19s (cold) 11s (hot)	28s (cold) 16s (hot)
Noise level²		61.0 dB(A)	61.0 dB(A)	64.0 dB(A)
Efficiency (%)	25%			
	50%	91.0	90.4	89.5
	75%	91.4	91.4	91.7
	100%	91.4	91.4	92.4
Power Factor	25%			
	50%	0.69	0.62	0.63
	75%	0.79	0.74	0.75
	100%	0.85	0.81	0.82

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

Losses (%)	P1 (0,9;1,0)	9.0	9.0	7.9
	P2 (0,5;1,0)	7.3	7.3	6.4
	P3 (0,25;1,0)	6.9	6.9	6.0
	P4 (0,9;0,5)	5.2	5.2	4.6
	P5 (0,5;0,5)	3.5	3.5	3.1
	P6 (0,5;0,25)	2.6	2.6	2.3
	P7 (0,25;0,25)	1.9	1.9	1.6

		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	

Foundation loads

Max. traction : 248 kgf

Max. compression : 387 kgf

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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Three Phase Induction Motor - Squirrel Cage

Customer :

Notes

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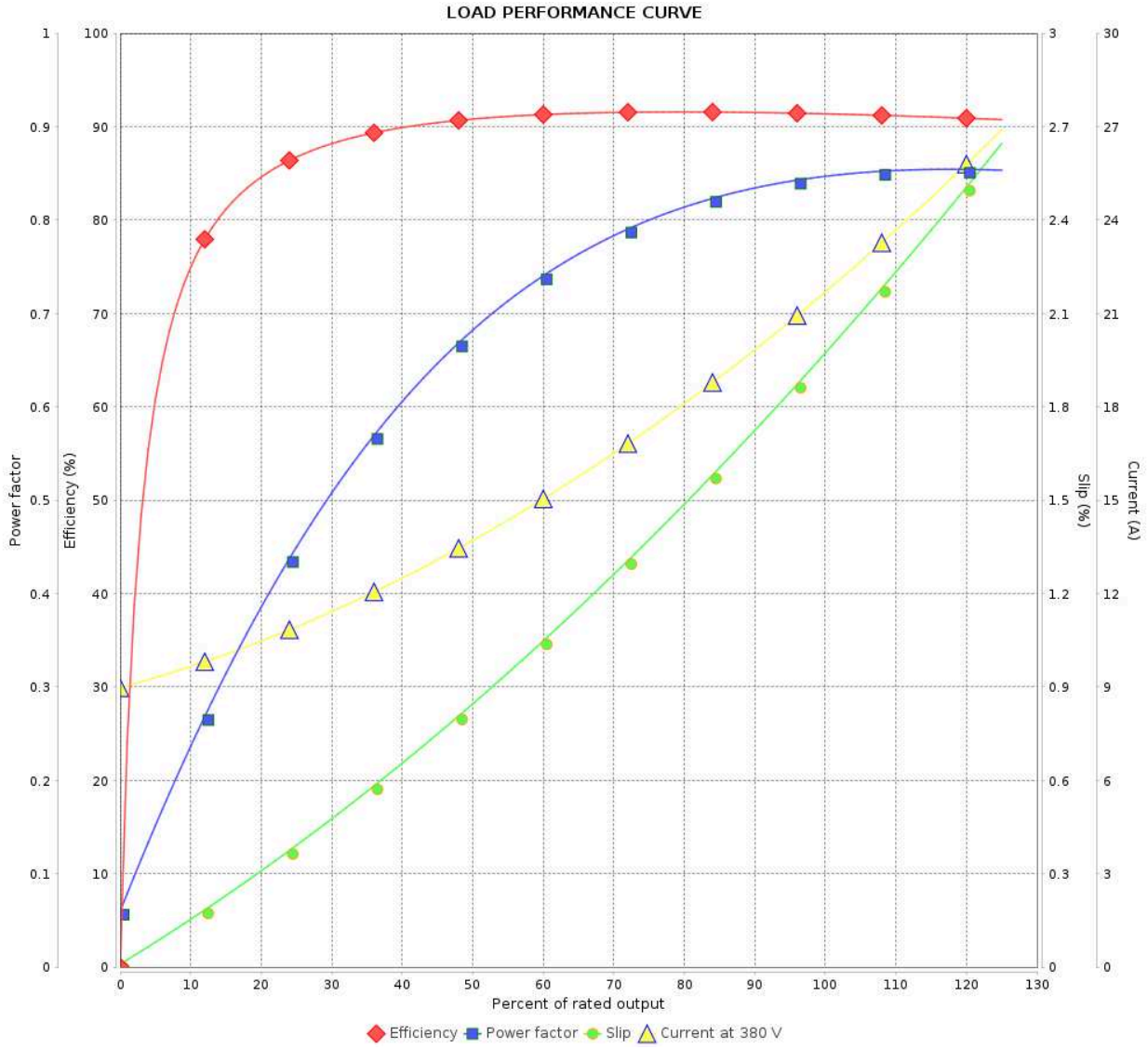
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12645345



Performance	: 380 V 50 Hz 4P		
Rated current	: 21.5 A	Moment of inertia (J)	: 0.1004 kgm²
LRC	: 7.5	Duty cycle	: S1
Rated torque	: 7.41 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: N

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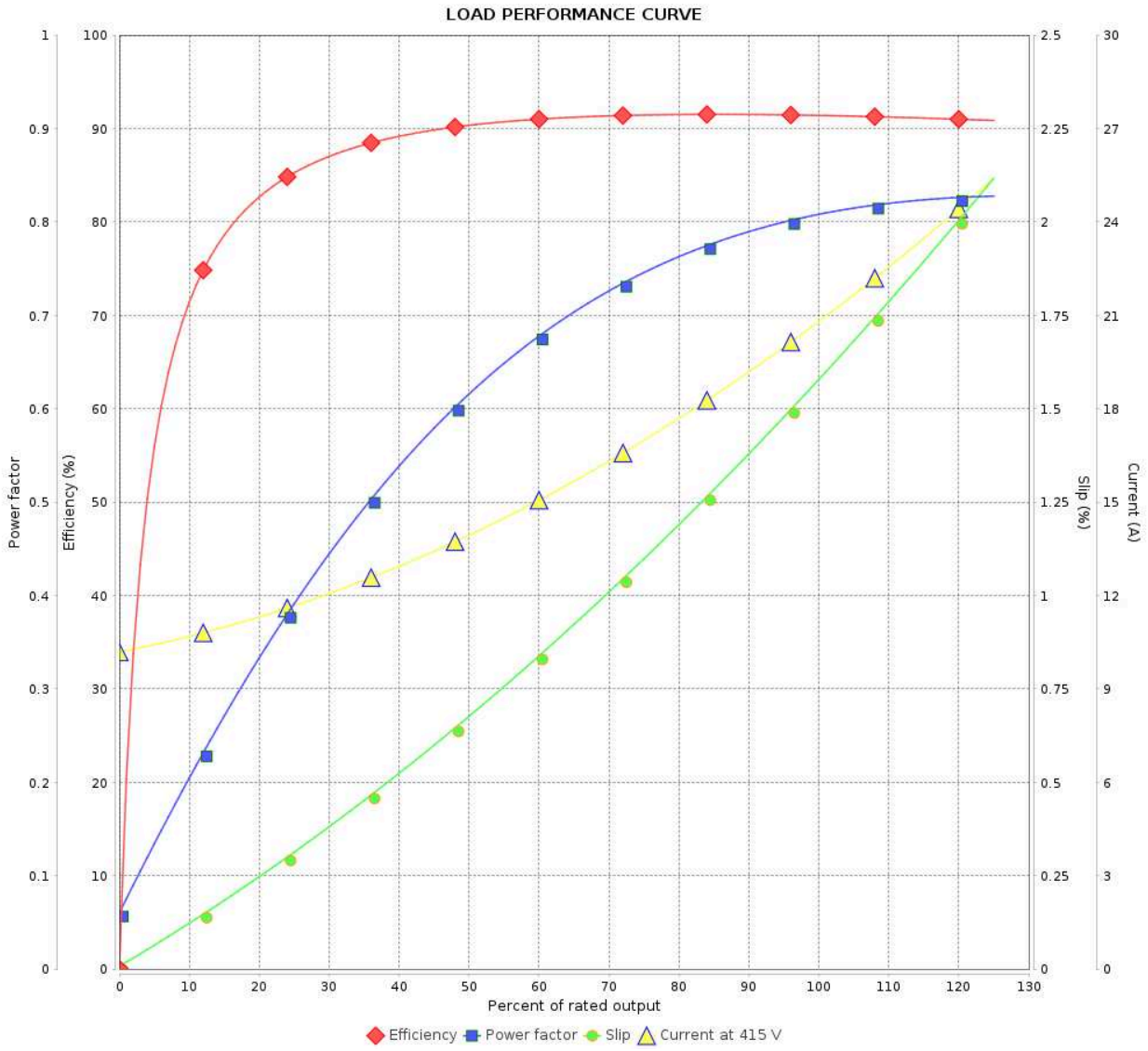
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 12645345



Performance	: 415 V 50 Hz 4P		
Rated current	: 20.7 A	Moment of inertia (J)	: 0.1004 kgm²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 7.38 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1476 rpm	Design	: N

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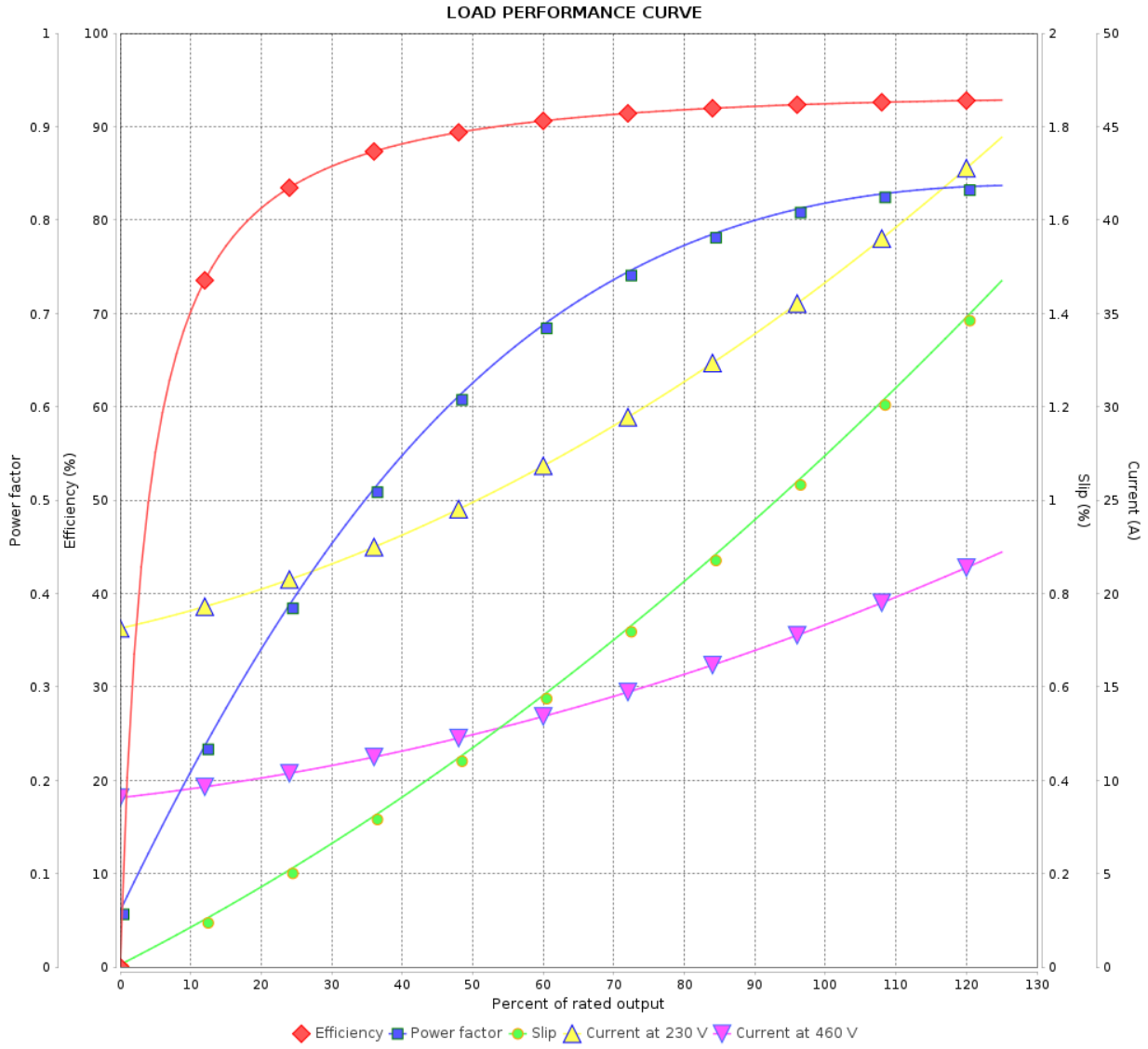
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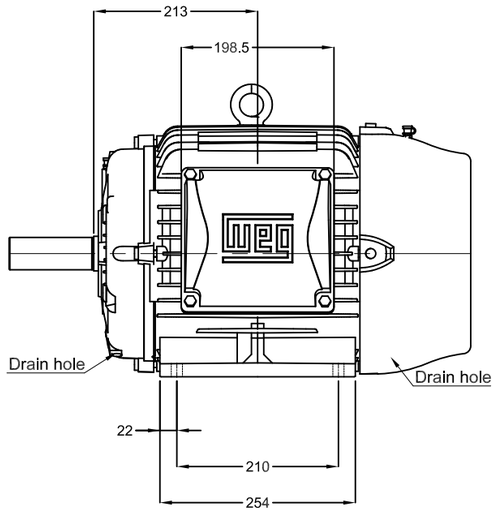


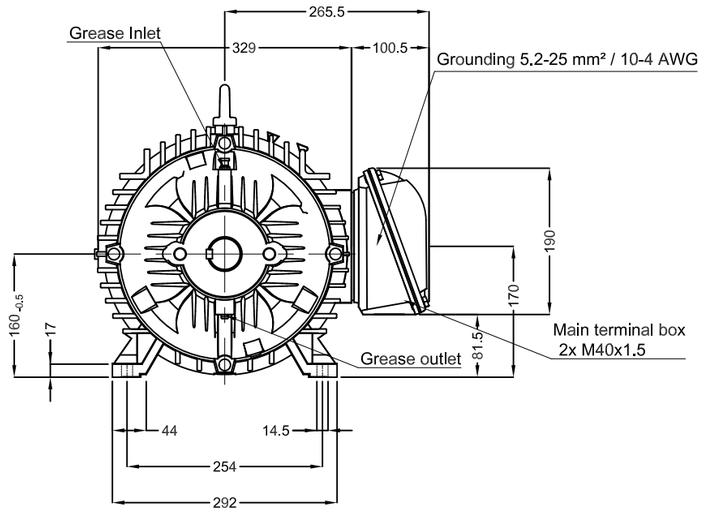
Performance	: 230/460 V 60 Hz 4P		
Rated current	: 36.4/18.2 A	Moment of inertia (J)	: 0.1004 kgm²
LRC	: 8.5	Duty cycle	: S1
Rated torque	: 6.12 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: N

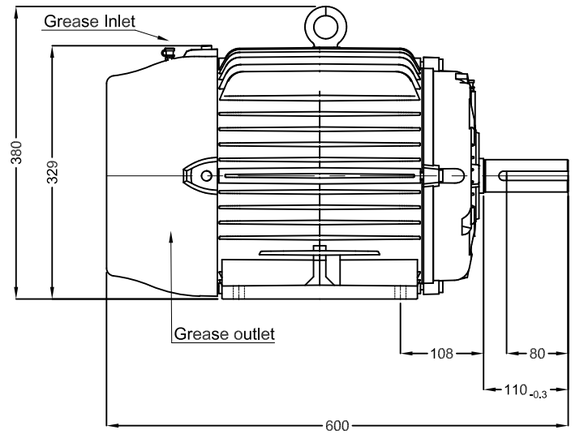
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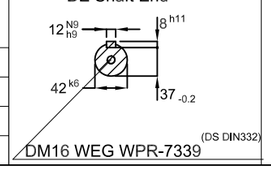
Without vertical jackscrews

Color RAL 5009

Painting plan 203A

Mounting B3L(E)

DE Shaft End



15 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 160M IP55 TEFC	WDD 00
RELEASED			
REL. DATE			SHEET /

Dimensions in mm

A3

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