DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16572113

Frame	: 200L	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: B35L(E)
Duty cycle	: S1	Rotation¹	: Both (CW and CCW)
Ambient temperature	: -20°C to +40°C	Starting method	: VFD
Altitude	: 1000 m.a.s.l.	Approx. weight³	: 258 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.3468 kgm²
Design	: N		

Output [HP]		40	40	40
Poles		4	4	4
Frequency [Hz]		60	50	50
Rated voltage [V]		208-230/460	380	415
Rated current [A]		109-98.8/49.4	58.0	55.7
L. R. Amperes [A]		1005-909/454	423	457
LRC [A]		9.2	7.3	8.2
No load current [A]		44.0-51.0/25.5	24.5	27.0
Rated speed [RPM]		1785	1480	1485
Slip [%]		0.83	1.33	1.00
Rated torque [kgfm]		16.3	19.6	19.5
Locked rotor torque [%]		340	250	310
Breakdown torque [%]		350	280	310
Service factor		1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K
Locked rotor time		23s (cold) 13s (hot)	19s (cold) 11s (hot)	16s (cold) 9s (hot)
Noise level²		66.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%	0.000	0.000	0.000
	50%	92.6	93.4	92.8
	75%	93.7	93.7	93.3
	100%	94.1	93.6	93.6
Power Factor	25%	0.00	0.00	0.00
	50%	0.63	0.69	0.60
	75%	0.75	0.79	0.72
	100%	0.81	0.84	0.80

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

Losses (%)	P1 (0,9;1,0)	6.0	6.6	6.6
	P2 (0,5;1,0)	4.7	5.1	5.1
	P3 (0,25;1,0)	4.3	4.6	4.6
	P4 (0,9;0,5)	3.5	3.9	3.9
	P5 (0,5;0,5)	2.3	2.5	2.5
	P6 (0,5;0,25)	1.8	1.9	1.9
	P7 (0,25;0,25)	1.2	1.3	1.3

		Drive end	Non drive end
Bearing type	:	6312 C3	6212 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	21 g	13 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 633 kgf

Max. compression : 891 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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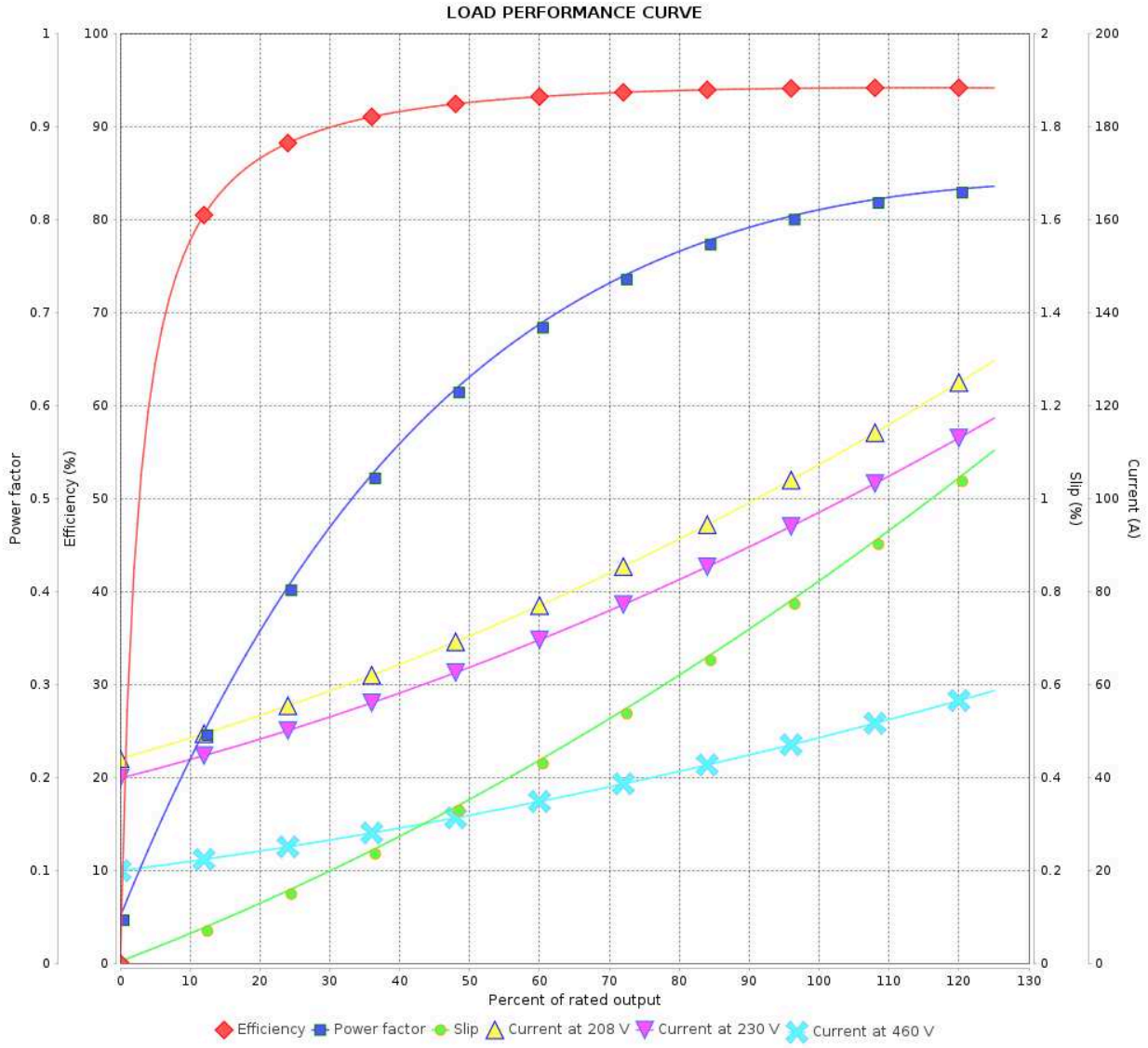
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16572113



Performance	: 208-230/460 V 60 Hz 4P		
Rated current	: 109-98.8/49.4 A	Moment of inertia (J)	: 0.3468 kgm²
LRC	: 9.2	Duty cycle	: S1
Rated torque	: 16.3 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.25
Breakdown torque	: 350 %	Temperature rise	: 80 K
Rated speed	: 1785 rpm	Design	: N

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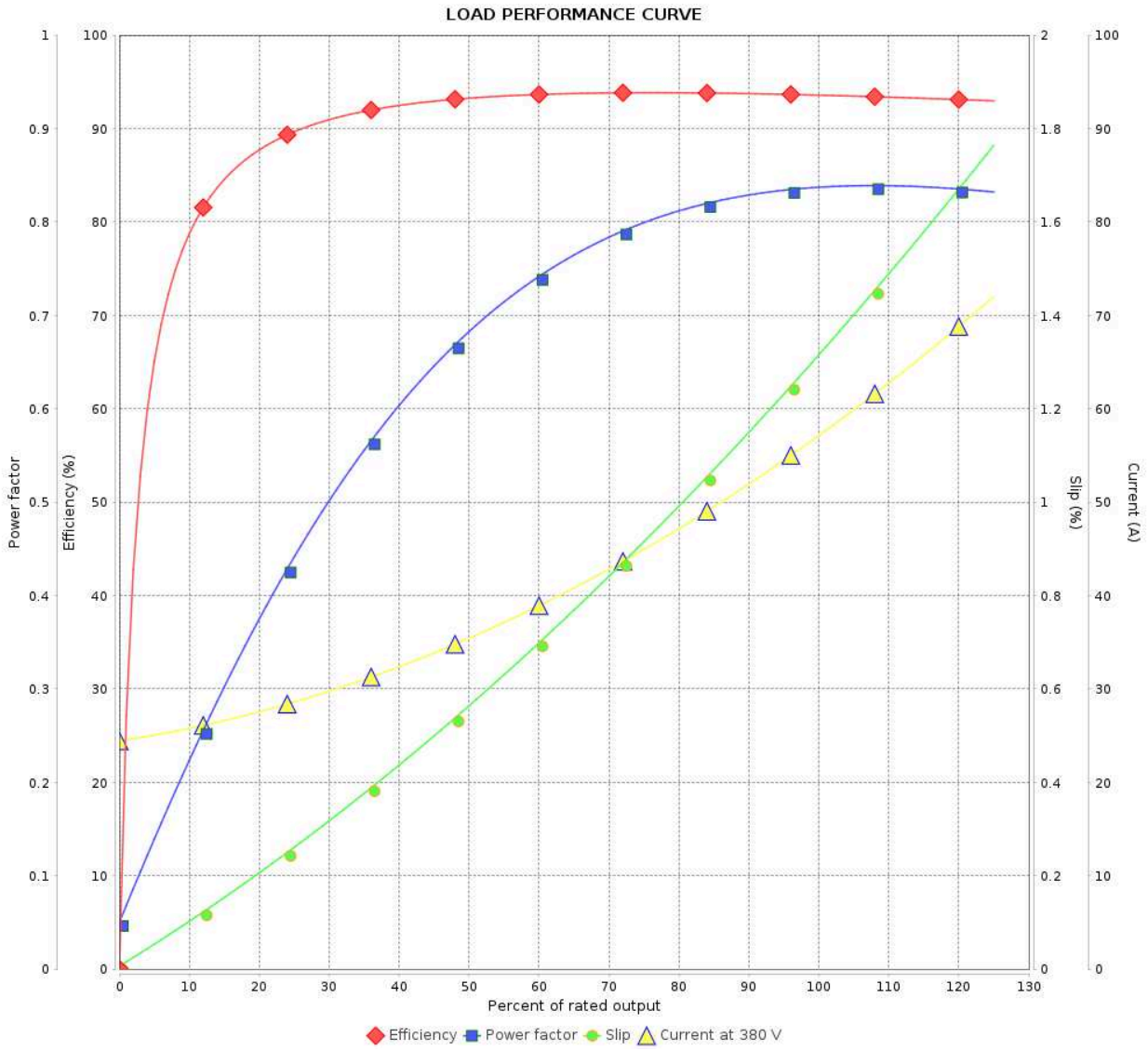
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 Tru-Metric IE3 Three-Phase Product code : 16572113



Performance	: 380 V 50 Hz 4P		
Rated current	: 58.0 A	Moment of inertia (J)	: 0.3468 kgm²
LRC	: 7.3	Duty cycle	: S1
Rated torque	: 19.6 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: N

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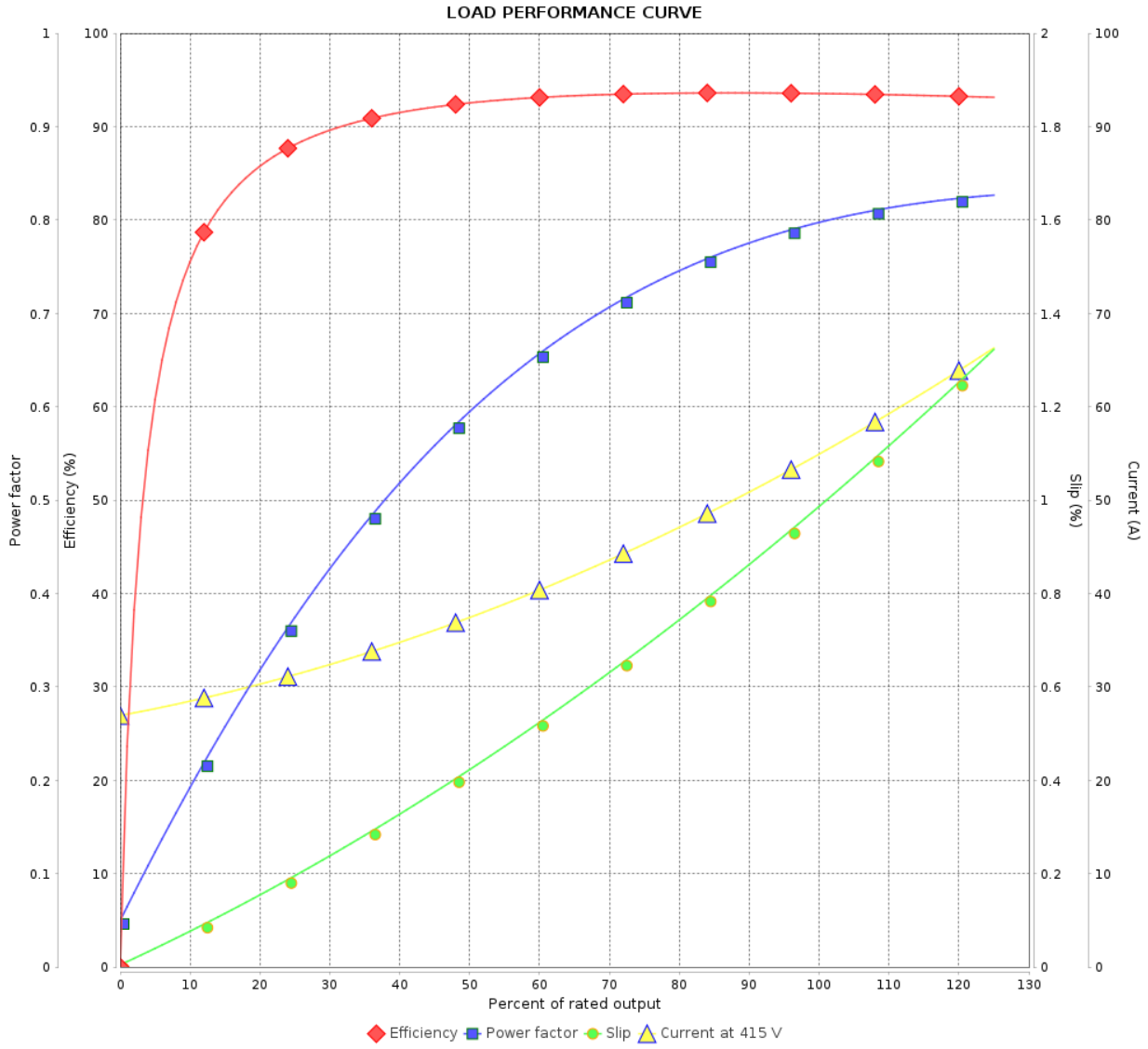
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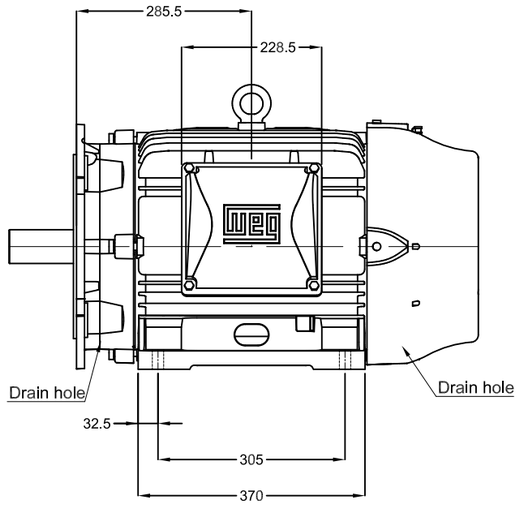


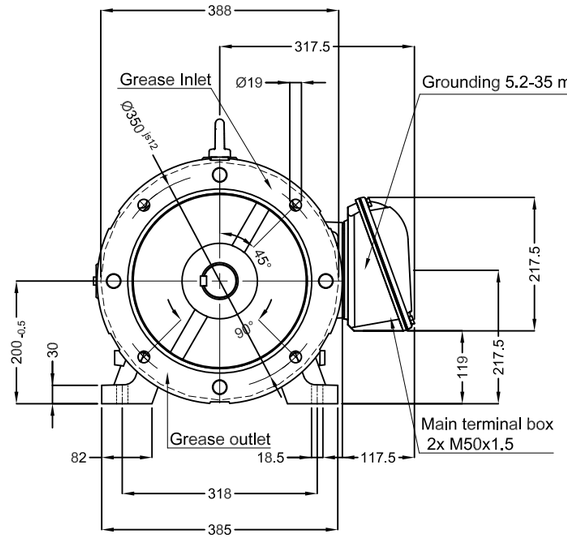
Performance	: 415 V 50 Hz 4P		
Rated current	: 55.7 A	Moment of inertia (J)	: 0.3468 kgm²
LRC	: 8.2	Duty cycle	: S1
Rated torque	: 19.5 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: N

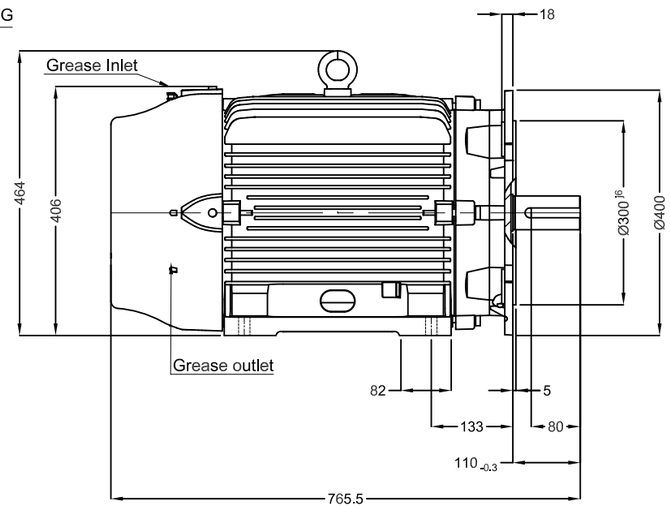
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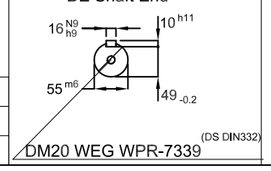


Color RAL 5009

Painting plan 203A

Mounting B35L(E)

DE Shaft End



40 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 200L IP55 TEFC	WDD 00
RELEASED			
REL. DATE			SHEET /

Dimensions in mm

A3

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