DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12446942

Frame	: 284/6T	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]	: 178 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.3310 kgm²
Design	: B		

Output [HP]		15	10	10	10	15	15	15
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		35.8/17.9	15.5	15.1	15.0	22.0	20.9	20.2
L. R. Amperes [A]		229/115	112	119	124	103	111	117
LRC [A]		6.4x(Code G)	7.2x(Code J)	7.9x(Code K)	8.3x(Code K)	4.7x(Code E)	5.3x(Code F)	5.8x(Code G)
No load current [A]		14.0/7.00	7.00	7.40	7.70	7.00	7.40	7.70
Rated speed [RPM]		1175	980	985	985	970	975	975
Slip [%]		2.08	2.00	1.50	1.50	3.00	2.50	2.50
Rated torque [kgfm]		9.26	7.41	7.37	7.37	11.2	11.2	11.2
Locked rotor torque [%]		229	270	300	330	170	200	220
Breakdown torque [%]		260	300	340	360	200	229	250
Service factor		1.25	1.25	1.25	1.25	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		36s (cold) 20s (hot)	57s (cold) 32s (hot)	52s (cold) 29s (hot)	48s (cold) 27s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level[2]		59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%							
	50%	91.0	89.0	89.1	89.1	91.0	90.2	90.2
	75%	91.7	89.4	89.5	89.5	90.2	90.2	91.0
	100%	91.7	89.4	89.5	89.5	88.5	89.5	90.2
Power Factor	25%							
	50%	0.69	0.64	0.61	0.58	0.75	0.72	0.70
	75%	0.80	0.76	0.73	0.71	0.83	0.81	0.80
	100%	0.84	0.82	0.80	0.78	0.86	0.85	0.84

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

Losses (%)	P1 (0,9;1,0)	8.6	11.2	11.1	11.1	12.3	11.1	10.3
	P2 (0,5;1,0)	6.9	9.1	9.0	9.0	10.0	9.0	8.3
	P3 (0,25;1,0)	6.2	8.1	8.0	8.0	8.9	8.0	7.4
	P4 (0,9;0,5)	4.3	5.6	5.6	5.6	6.2	5.6	5.2
	P5 (0,5;0,5)	2.8	3.6	3.6	3.6	4.0	3.6	3.3
	P6 (0,5;0,25)	1.8	2.4	2.4	2.4	2.6	2.4	2.2
	P7 (0,25;0,25)	1.2	1.6	1.6	1.6	1.8	1.6	1.5

		Drive end	Non drive end
Bearing type	:	6311 C3	6211 C3
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 310 kgf

Max. compression : 488 kgf

This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Notes
USABLE @208V 39.6A SF 1.15 SFA 45.5A

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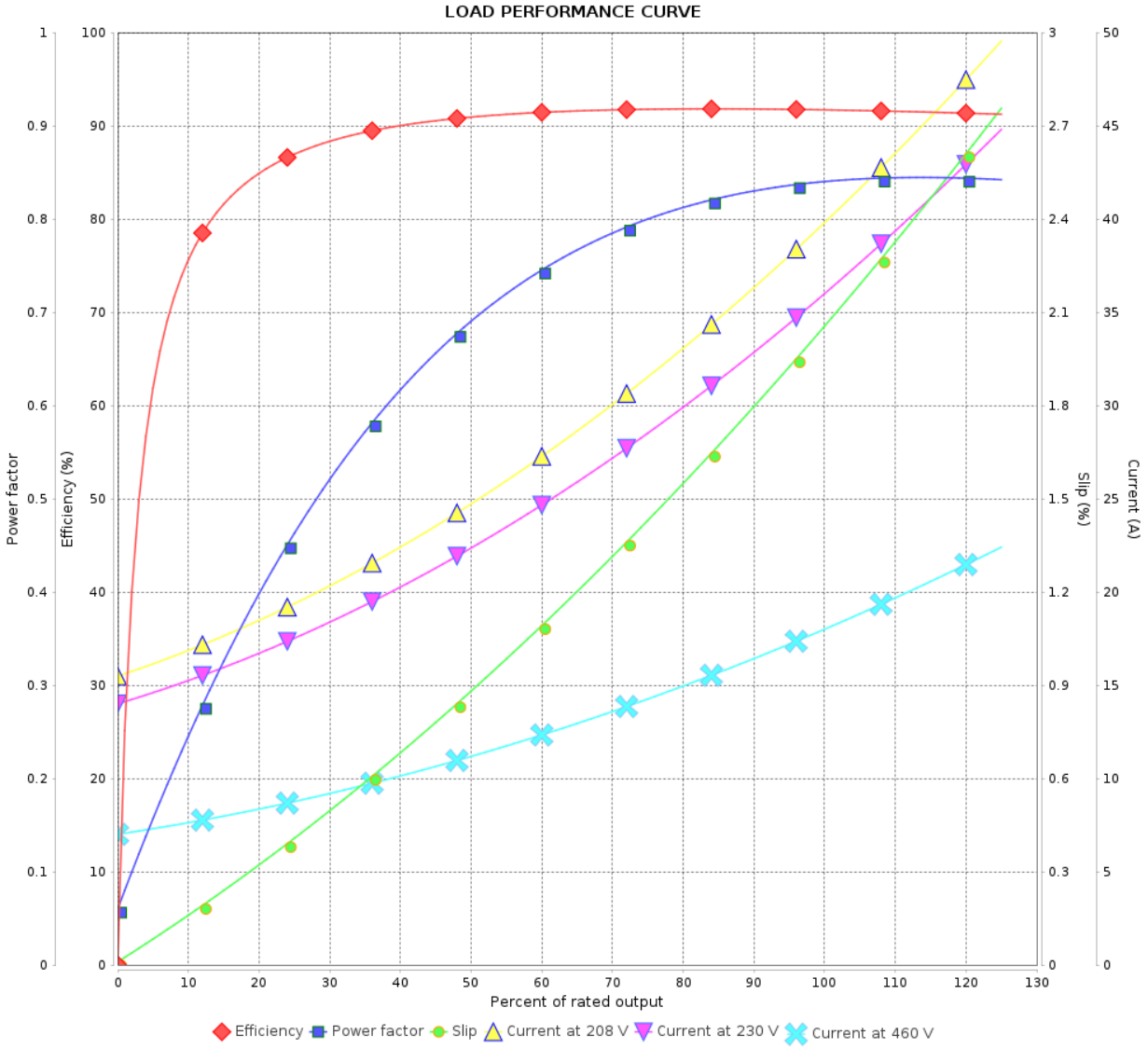
LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12446942



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 35.8/17.9 A	Moment of inertia (J)	: 0.3310 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 9.26 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1175 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage

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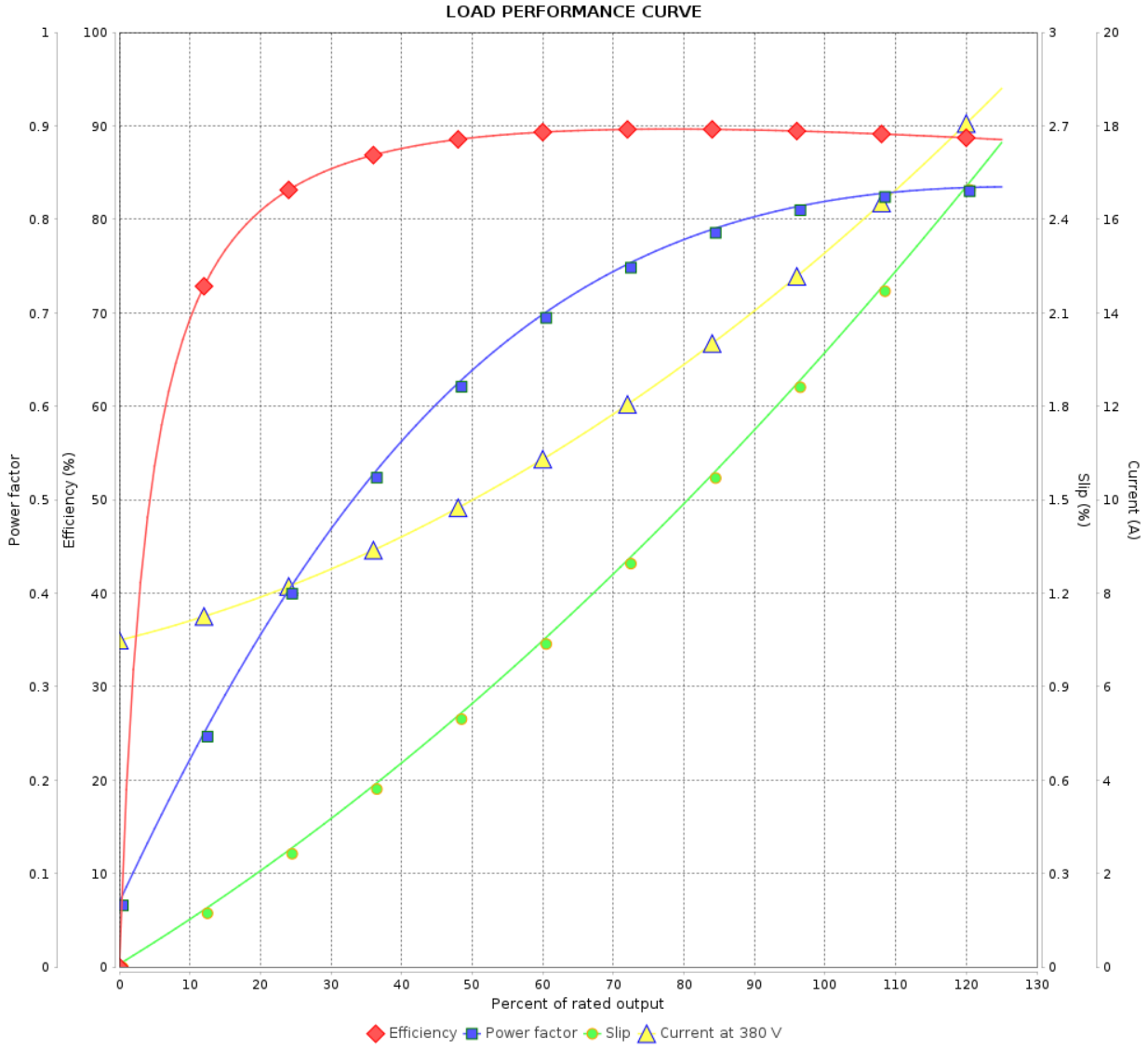
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12446942



Performance	: 380 V 50 Hz 6P IE3

Rated current	: 15.5 A	Moment of inertia (J)	: 0.3310 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 7.41 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

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Three Phase Induction Motor - Squirrel Cage

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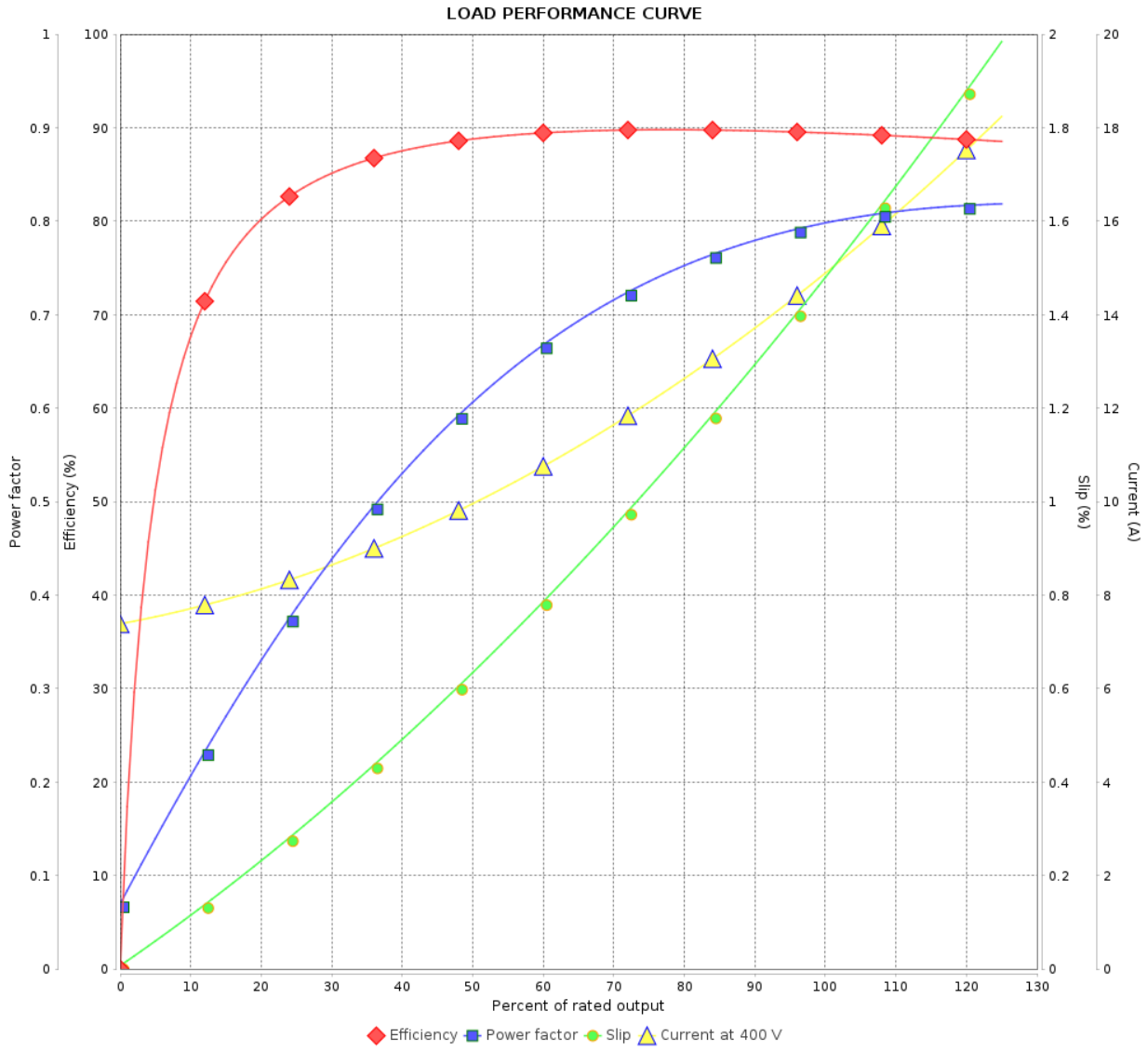

Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 15.1 A	Moment of inertia (J)	: 0.3310 kgm²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 7.37 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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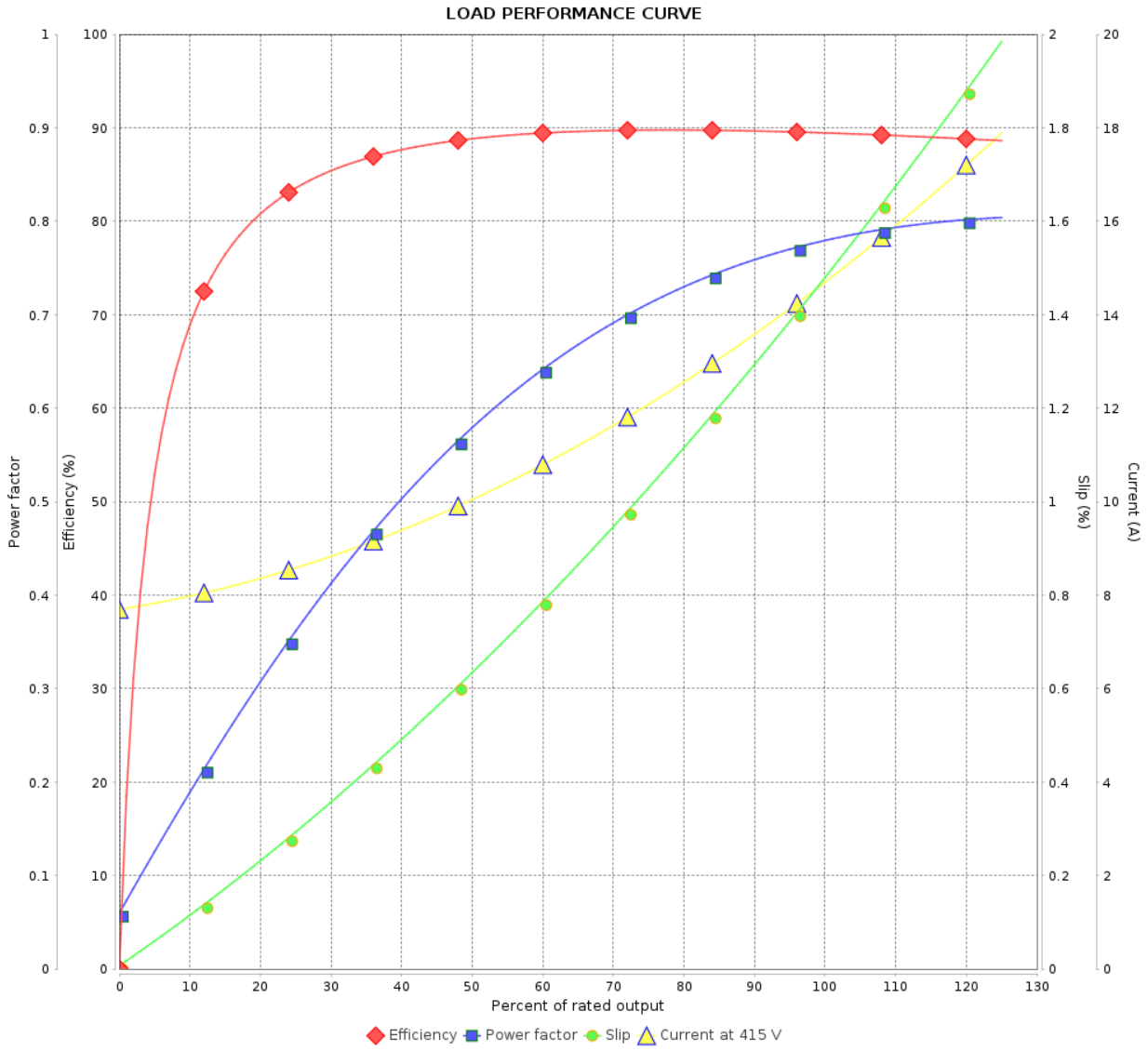
Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12446942



Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 15.0 A	Moment of inertia (J)	: 0.3310 kgm²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 7.37 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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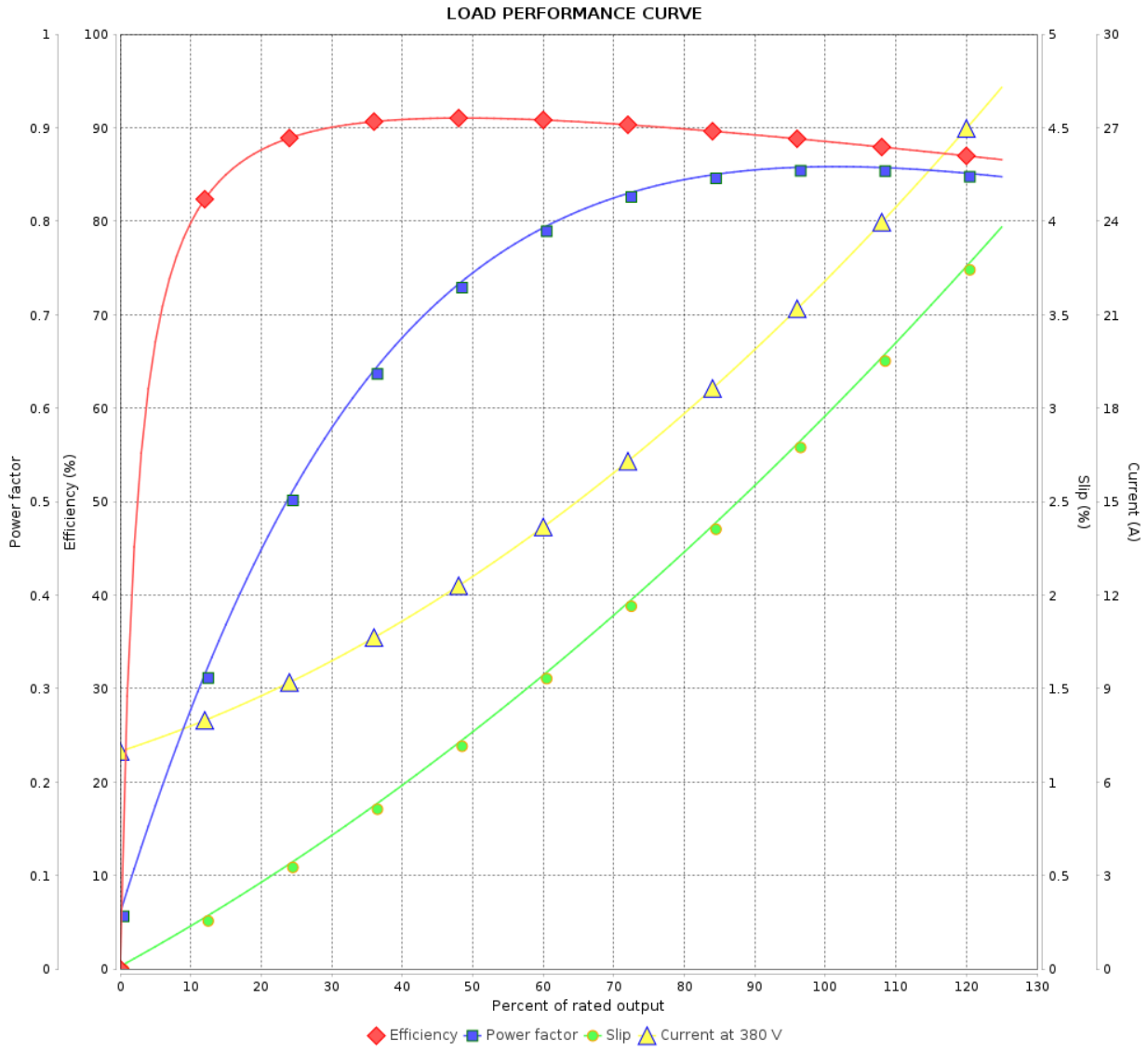

Performance	: 380 V 50 Hz 6P IE1		
Rated current	: 22.0 A	Moment of inertia (J)	: 0.3310 kgm²
LRC	: 4.7	Duty cycle	: Cont.(S1)
Rated torque	: 11.2 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

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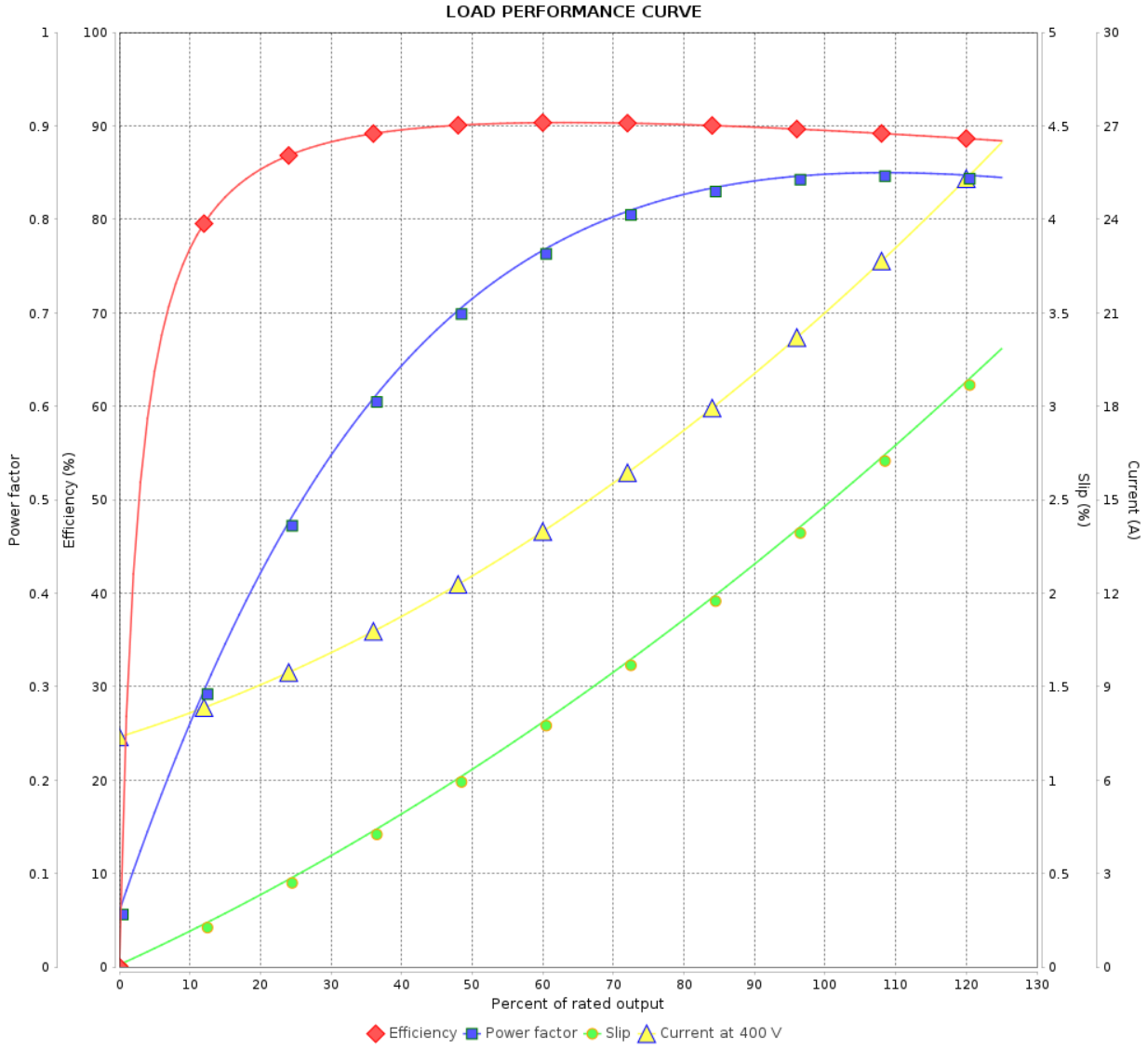
Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12446942



Performance	: 400 V 50 Hz 6P IE2

Rated current	: 20.9 A	Moment of inertia (J)	: 0.3310 kgm²
LRC	: 5.3	Duty cycle	: Cont.(S1)
Rated torque	: 11.2 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

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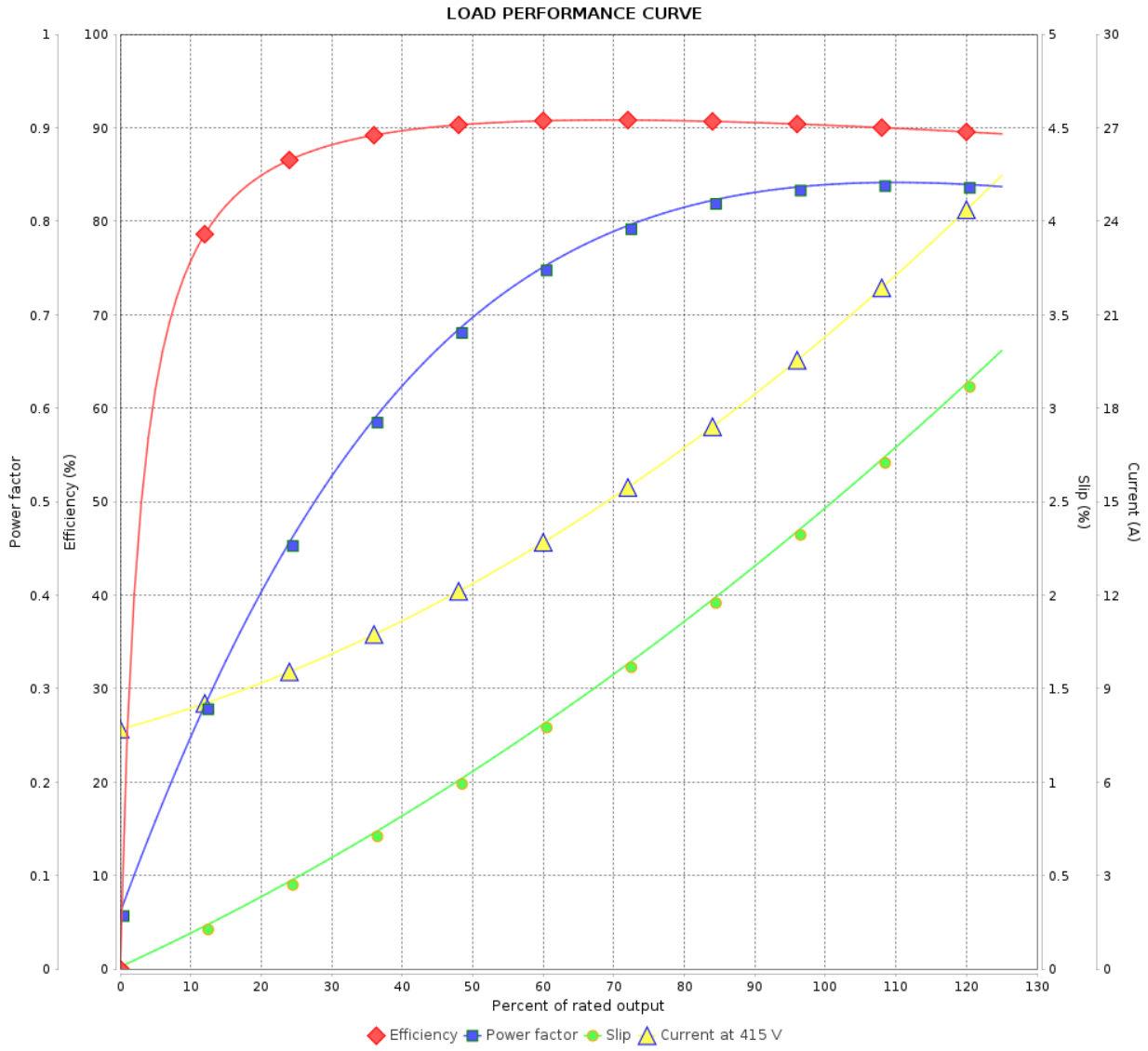

Performance	: 415 V 50 Hz 6P IE2		
Rated current	: 20.2 A	Moment of inertia (J)	: 0.3310 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 11.2 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

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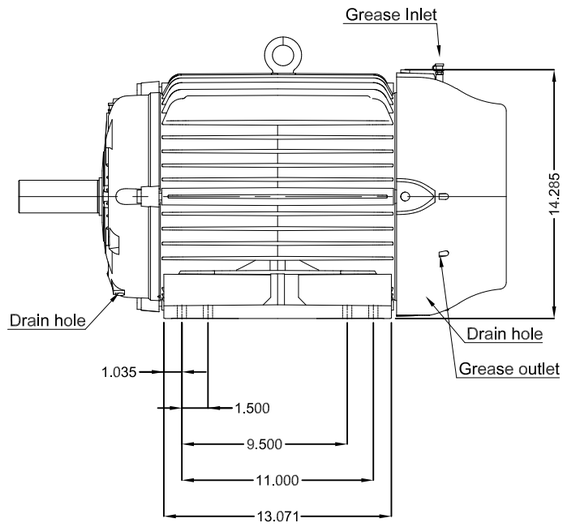
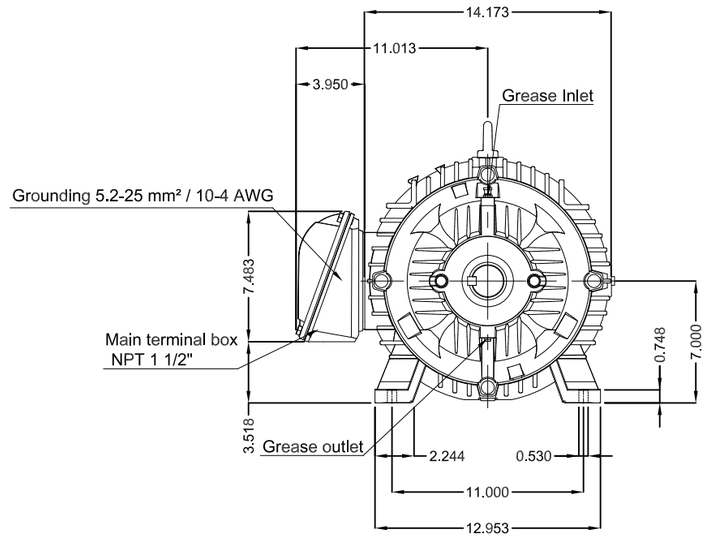
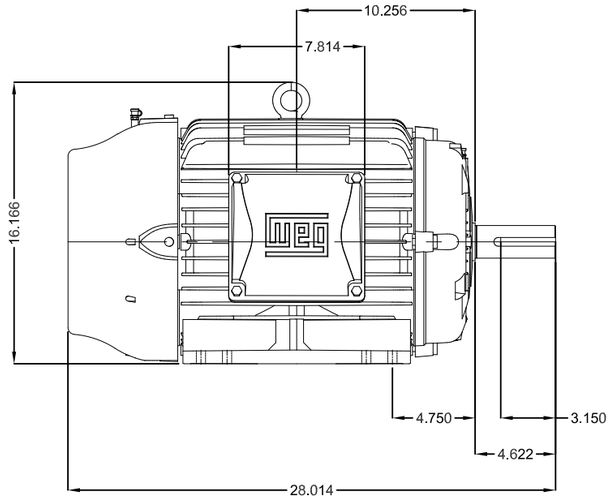
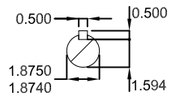






Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B3R(D)

DE Shaft End



15 HP 06 Poles 60 Hz | A

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

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 NEMA PREM. EFF.
FRAME 284/6T IP55 TEFC

PREVIEW
WDD 00
SHEET /

Dimensions in inches
A3

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