DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11442886

Frame	: 324/6T	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: F-1
Duty cycle	: Cont.(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	: 246 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.5561 kgm²
Design	: B		

Output [HP]		30	25	25	25	30	30	30
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]		72.4/36.2	37.4	36.2	35.4	43.7	41.7	40.7
L. R. Amperes [A]		449/225	217	228	237	214	225	236
LRC [A]		6.2x(Code G)	5.8x(Code G)	6.3x(Code H)	6.7x(Code H)	4.9x(Code E)	5.4x(Code F)	5.8x(Code G)
No load current [A]		32.8/16.4	15.5	16.8	18.0	15.5	16.8	18.0
Rated speed [RPM]		1180	980	980	985	970	975	980
Slip [%]		1.67	2.00	2.00	1.50	3.00	2.50	2.00
Rated torque [kgfm]		18.5	18.5	18.5	18.4	22.4	22.3	22.2
Locked rotor torque [%]		220	190	220	240	160	180	200
Breakdown torque [%]		240	229	260	280	200	220	240
Service factor		1.25	1.00	1.15	1.15	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		37s (cold) 21s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level²		62.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)
Efficiency (%)	25%							
	50%	91.7	91.3	91.3	90.7	91.7	91.7	91.0
	75%	93.0	91.8	92.2	91.9	91.7	92.4	92.4
	100%	93.0	91.7	92.1	92.0	91.0	91.7	91.7
Power Factor	25%							
	50%	0.65	0.64	0.61	0.58	0.71	0.68	0.65
	75%	0.76	0.76	0.74	0.71	0.80	0.78	0.76
	100%	0.82	0.82	0.80	0.79	0.84	0.83	0.82

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

Losses (%)	P1 (0,9;1,0)	7.3	8.8	8.3	8.4	9.6	8.8	8.8
	P2 (0,5;1,0)	6.1	7.4	7.0	7.1	8.1	7.4	7.4
	P3 (0,25;1,0)	6.0	7.2	6.8	6.9	7.9	7.2	7.2
	P4 (0,9;0,5)	3.6	4.3	4.1	4.2	4.8	4.3	4.3
	P5 (0,5;0,5)	2.5	3.1	2.9	2.9	3.3	3.1	3.1
	P6 (0,5;0,25)	1.7	2.1	2.0	2.0	2.3	2.1	2.1
	P7 (0,25;0,25)	1.2	1.5	1.4	1.4	1.6	1.5	1.5

		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 : 548 kgf

Max. compression : 794 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 79.2A SF 1.15 SFA 91.0A

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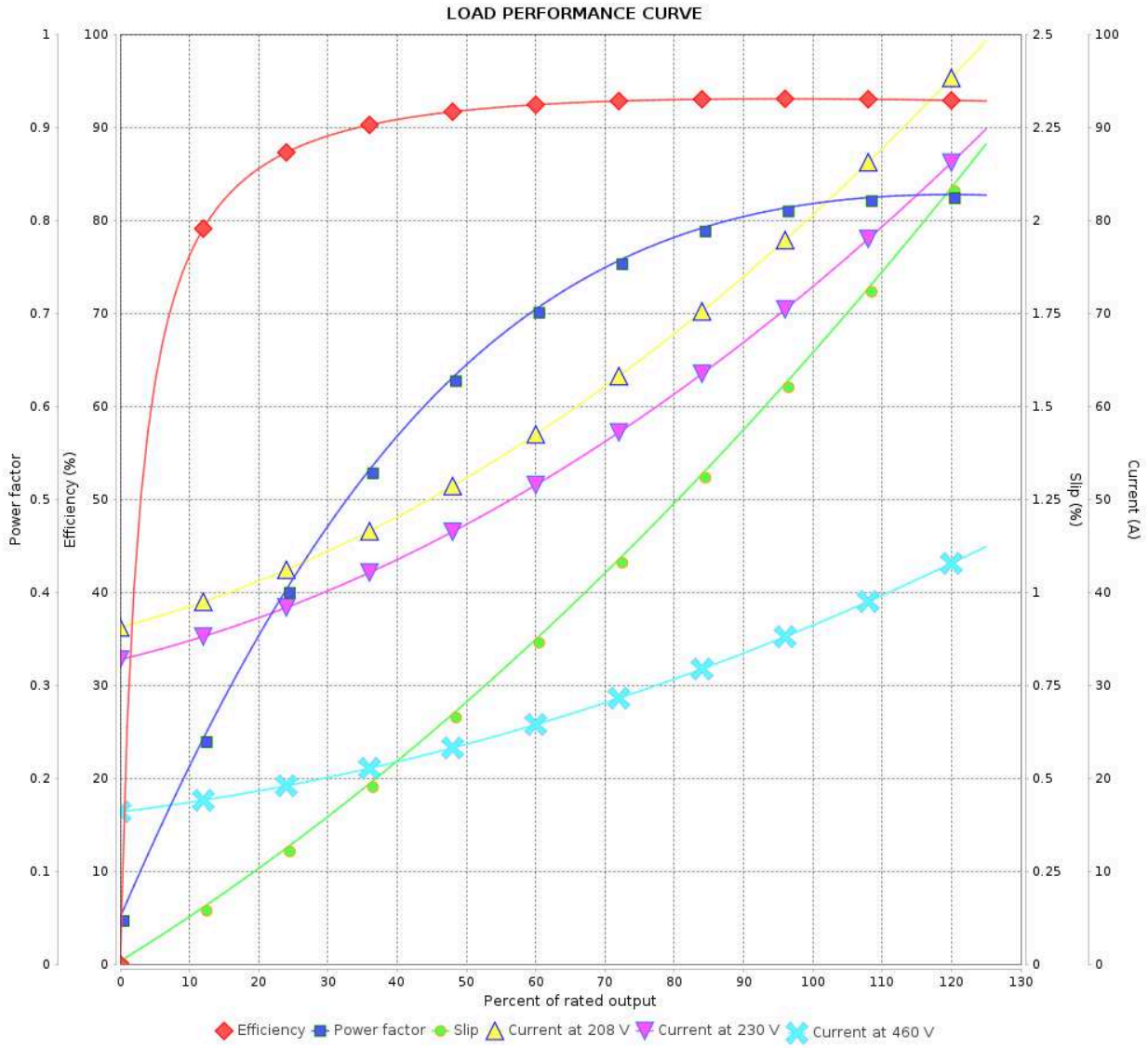
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11442886



Performance	: 230/460 V 60 Hz 6P		
Rated current	: 72.4/36.2 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.2	Duty cycle	: Cont.(S1)
Rated torque	: 18.5 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1180 rpm	Design	: B

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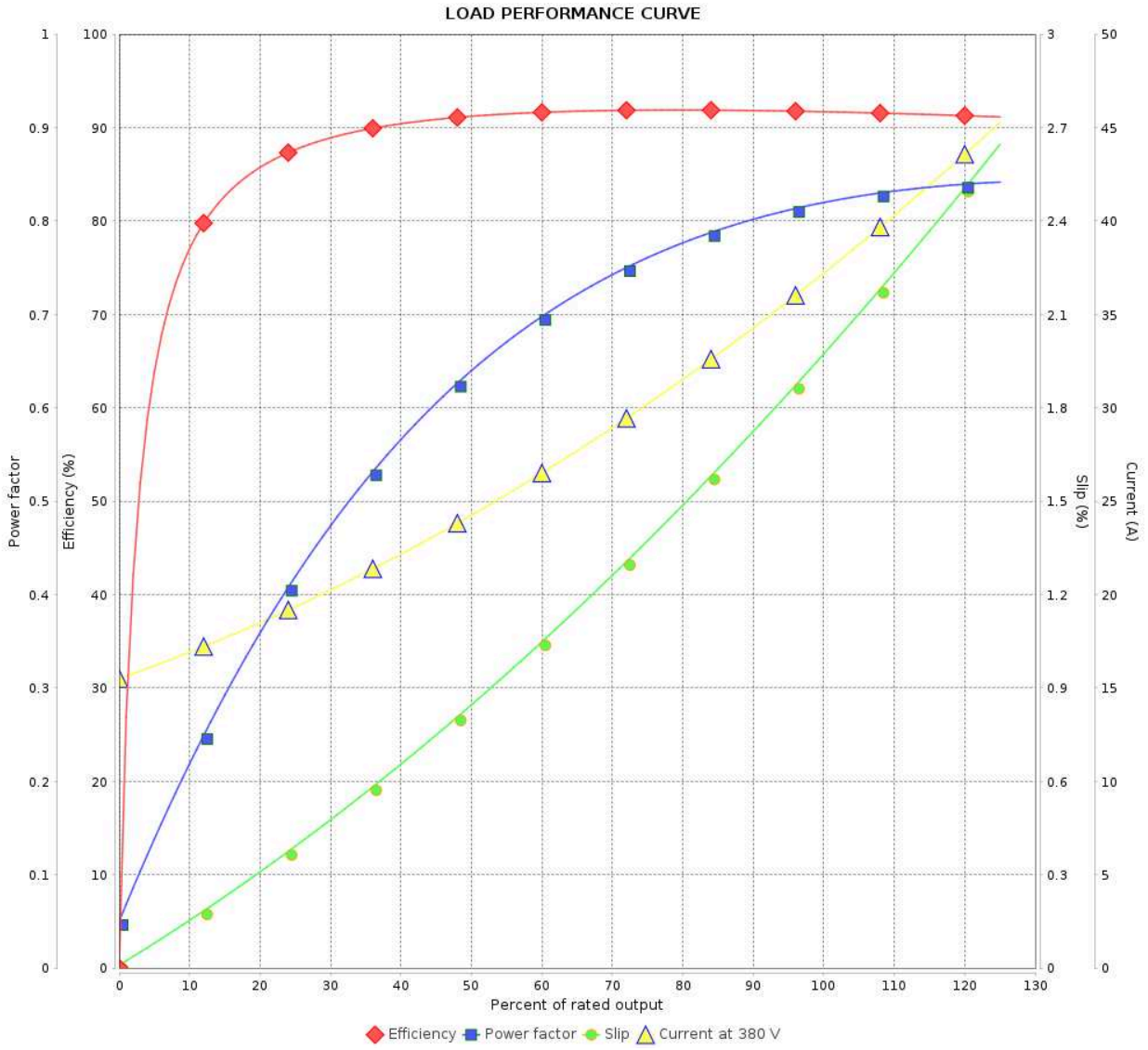
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11442886



Performance	: 380 V 50 Hz 6P IE3

Rated current	: 37.4 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 18.5 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

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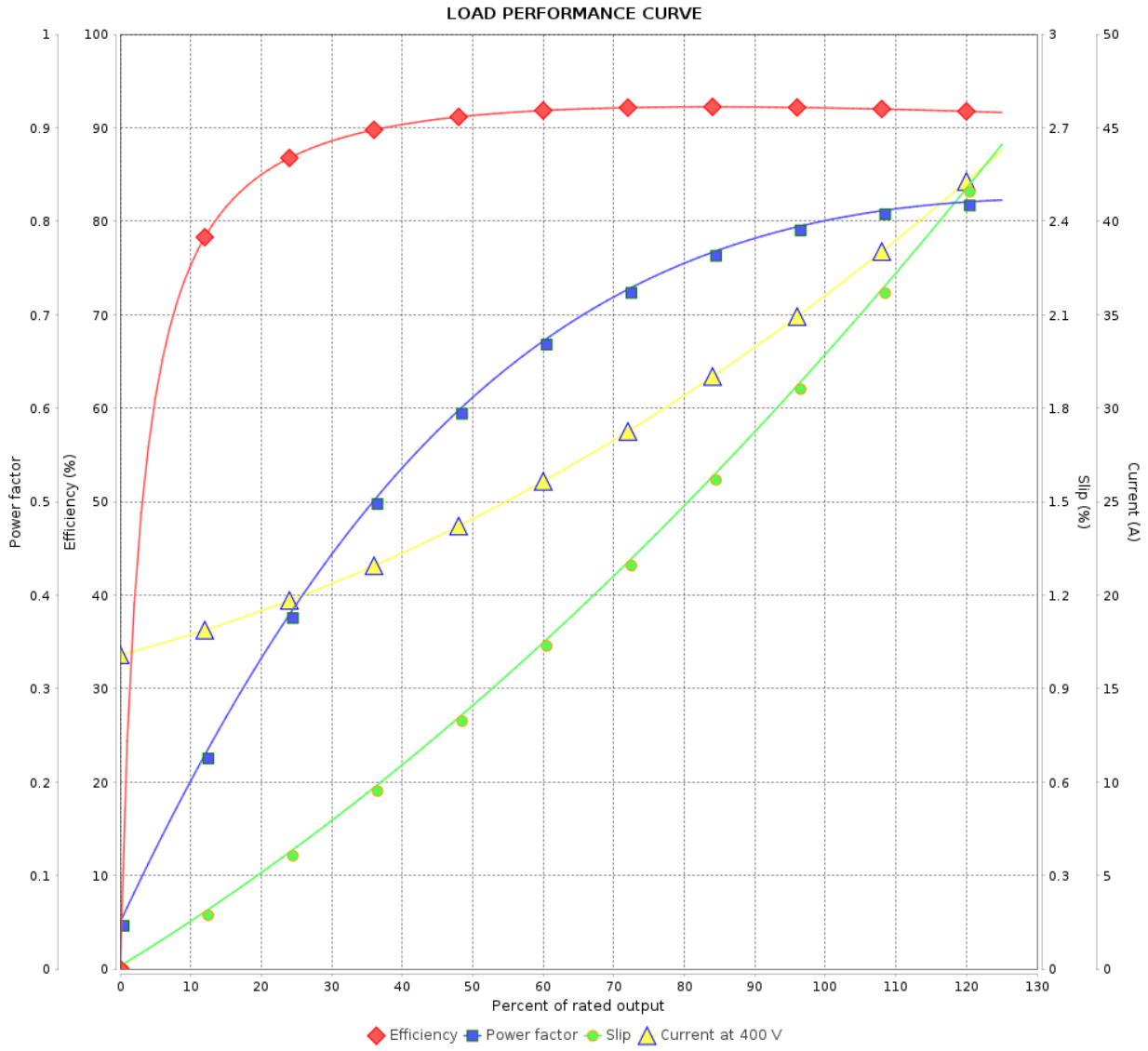
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11442886



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 36.2 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.3	Duty cycle	: Cont.(S1)
Rated torque	: 18.5 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

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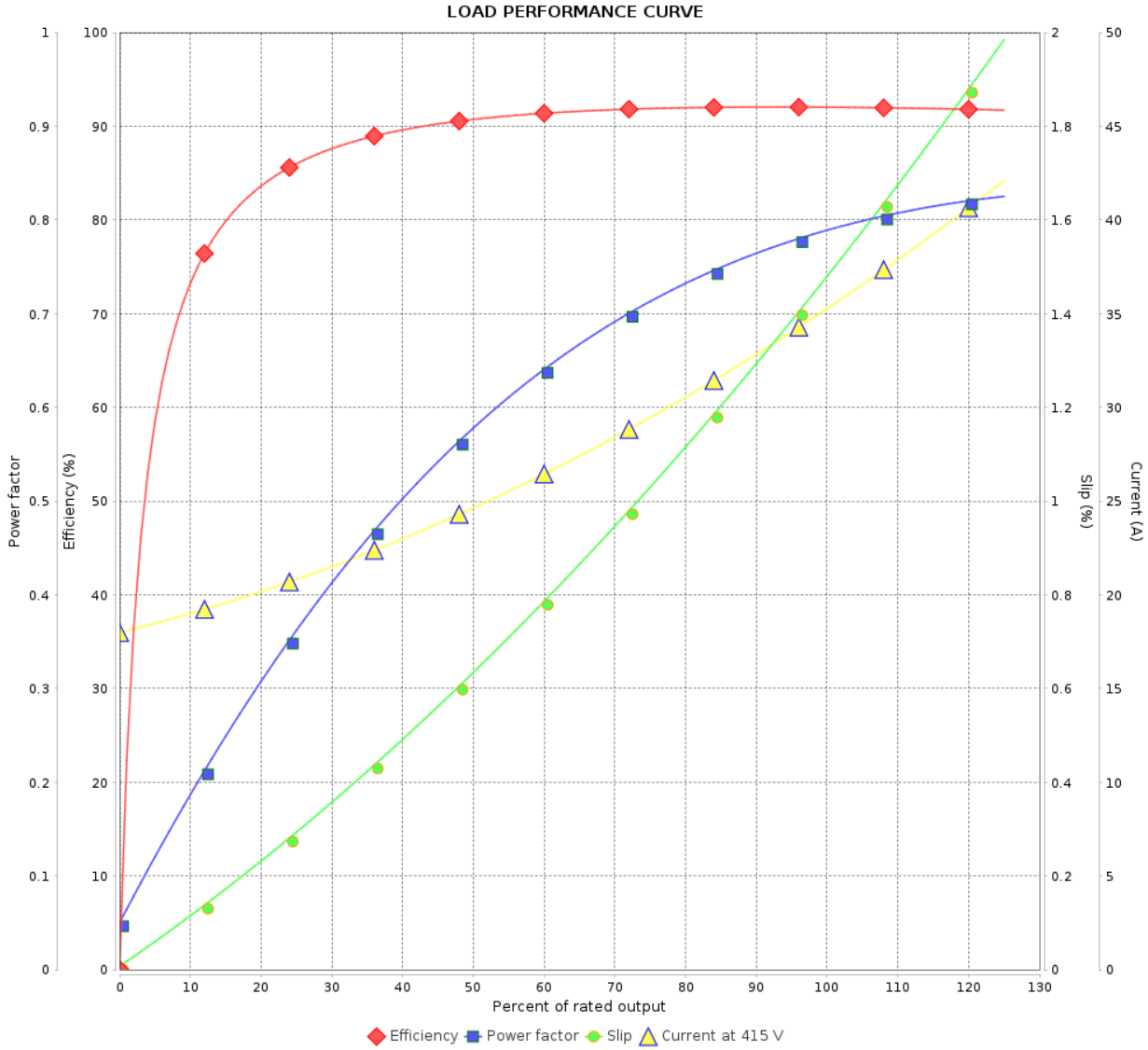
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11442886



Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 35.4 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 18.4 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 985 rpm	Design	: B

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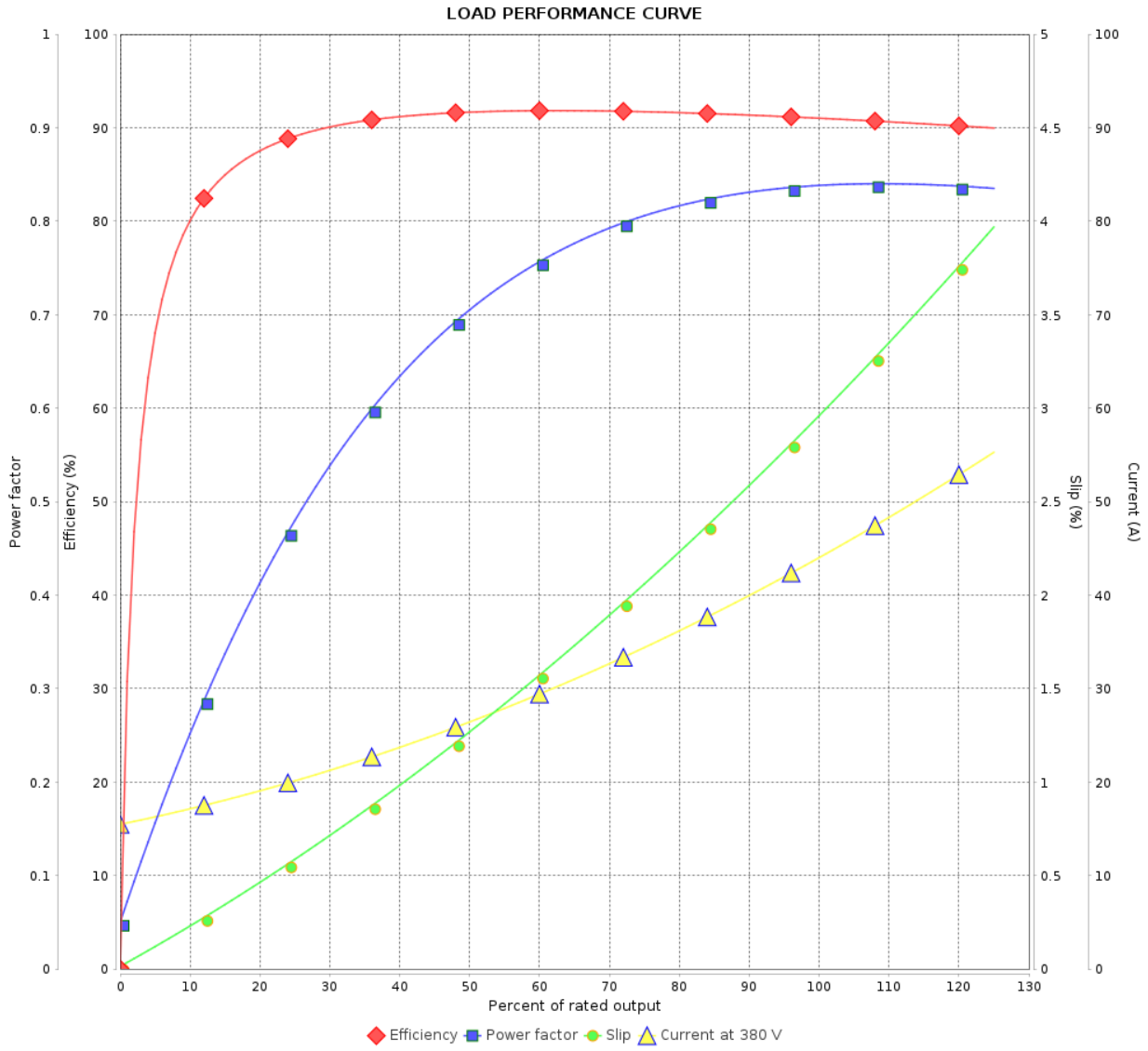
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11442886



Performance	: 380 V 50 Hz 6P IE2		
Rated current	: 43.7 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 4.9	Duty cycle	: Cont.(S1)
Rated torque	: 22.4 kgfm	Insulation class	: F
Locked rotor torque	: 160 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 970 rpm	Design	: B

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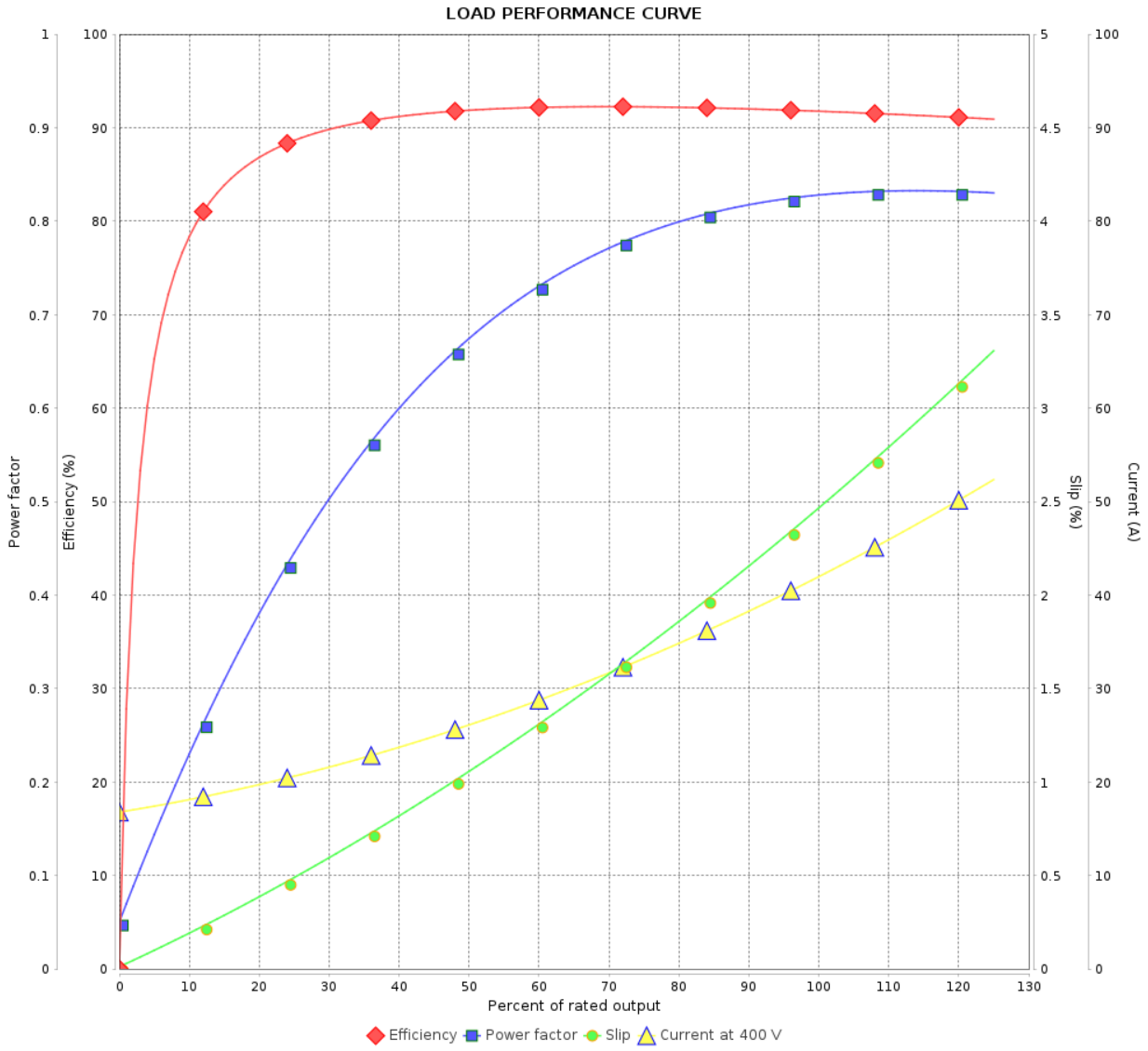
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11442886



Performance	: 400 V 50 Hz 6P IE2

Rated current	: 41.7 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 22.3 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 975 rpm	Design	: B

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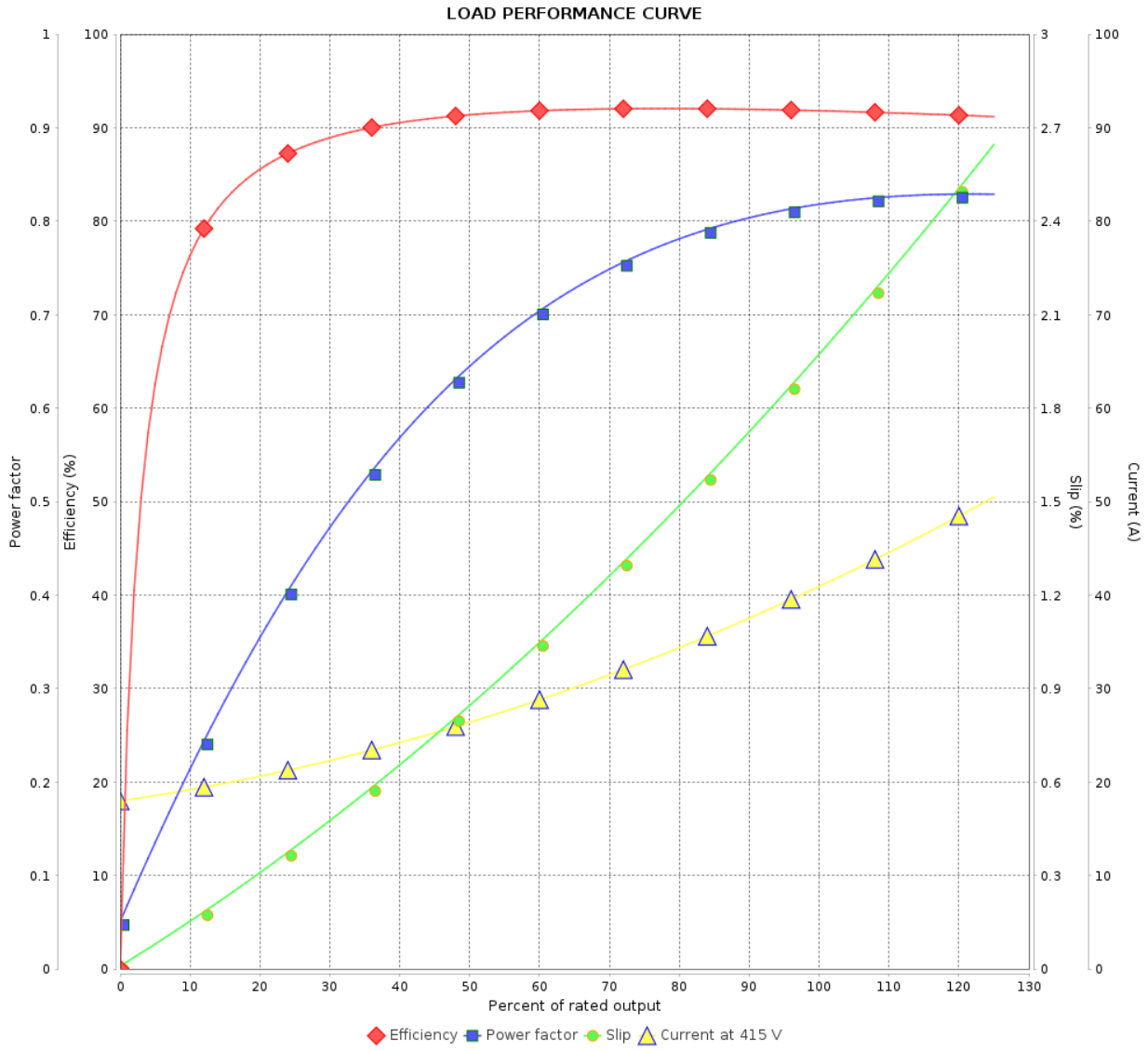
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11442886

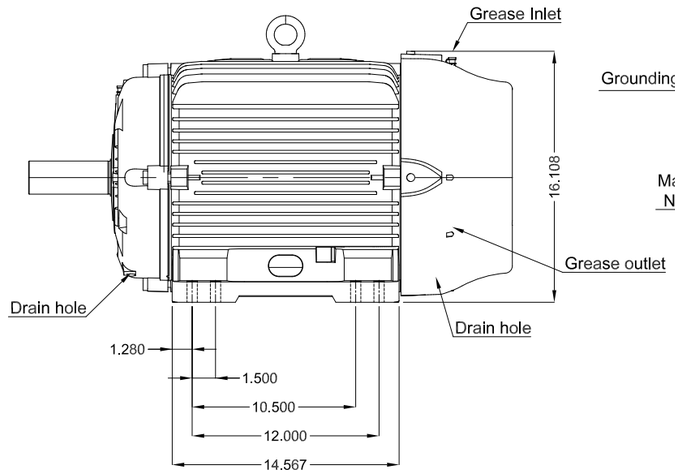


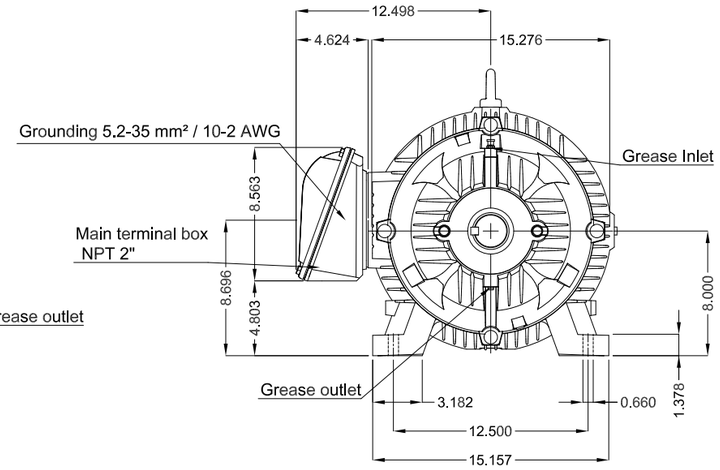
Performance	: 415 V 50 Hz 6P IE2		
Rated current	: 40.7 A	Moment of inertia (J)	: 0.5561 kgm²
LRC	: 5.8	Duty cycle	: Cont.(S1)
Rated torque	: 22.2 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 980 rpm	Design	: B

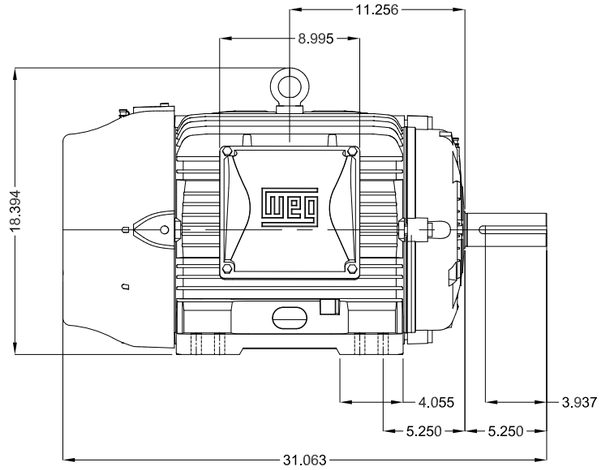
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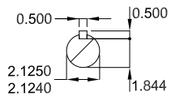
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DE Shaft End



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

30 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 324/6T IP55 TEFC

PREVIEW
WDD | 00
SHEET /

Dimensions in inches
A3

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