DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11997216

Frame	: 284TC	Cooling method	: IC01 - ODP
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]	: 165 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.1435 kgm²
Design	: B		

Output [HP]		25	20	20	20	25	25	25
Poles		4	4	4	4	4	4	4
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		59.8/29.9	29.8	29.4	28.6	36.1	35.1	34.0
L. R. Amperes [A]		401/200	197	194	186	195	193	187
LRC [A]		6.7x(Code H)	6.6x(Code H)	6.6x(Code H)	6.5x(Code H)	5.4x(Code F)	5.5x(Code F)	5.5x(Code F)
No load current [A]		24.0/12.0	11.9	12.9	13.8	11.9	12.9	13.8
Rated speed [RPM]		1770	1470	1470	1475	1460	1465	1470
Slip [%]		1.67	2.00	2.00	1.67	2.67	2.33	2.00
Rated torque [kgfm]		10.3	9.87	9.87	9.84	12.4	12.4	12.3
Locked rotor torque [%]		250	290	300	330	229	240	260
Breakdown torque [%]		280	300	330	360	240	260	290
Service factor		1.15	1.15	1.15	1.15	1.15	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		27s (cold) 15s (hot)	36s (cold) 20s (hot)	37s (cold) 21s (hot)	41s (cold) 23s (hot)	36s (cold) 20s (hot)	37s (cold) 21s (hot)	41s (cold) 23s (hot)
Noise level[2]		62.0 dB(A)						
Efficiency (%)	25%							
	50%	92.4	89.6	89.4	88.8	91.0	91.0	91.0
	75%	93.0	91.5	91.5	91.4	91.7	91.7	91.7
	100%	93.6	92.1	92.1	92.3	91.7	91.7	92.4
Power Factor	25%							
	50%	0.67	0.66	0.62	0.59	0.73	0.69	0.66
	75%	0.78	0.78	0.74	0.71	0.82	0.79	0.77
	100%	0.83	0.83	0.80	0.78	0.85	0.83	0.82

		Drive end	Non drive end
Bearing type	:	6311 Z C3	6211 Z C3
Sealing	:	Without Bearing Seal	Without Bearing Seal
Lubrication interval	:	20000 h	20000 h
Lubricant amount	:	18 g	11 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 429 kgf

Max. compression : 594 kgf

Notes

USABLE @208V 66.1A SF 1.15 SFA 76.0A

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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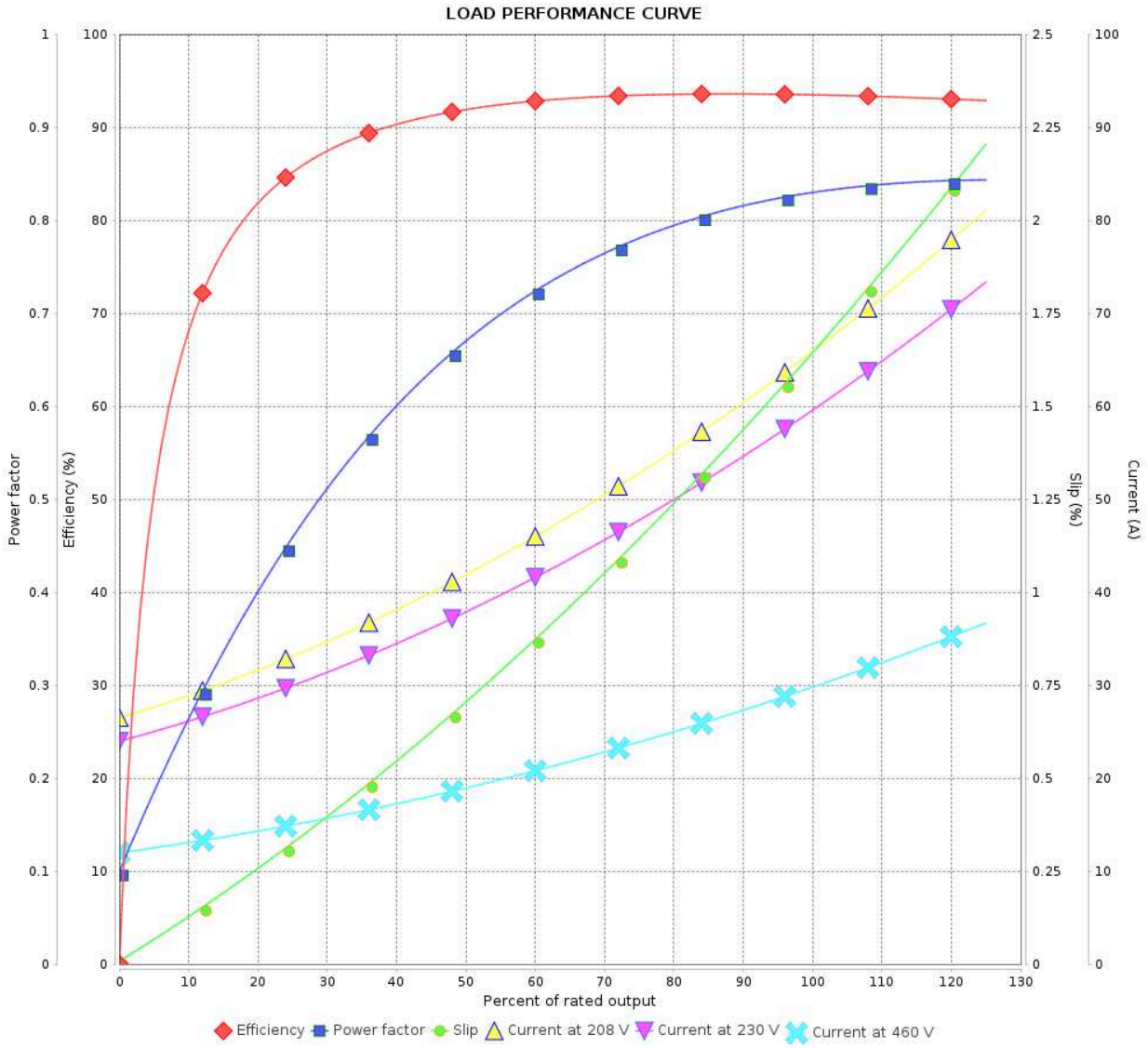
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11997216



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 59.8/29.9 A	Moment of inertia (J)	: 0.1435 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 10.3 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1770 rpm	Design	: B

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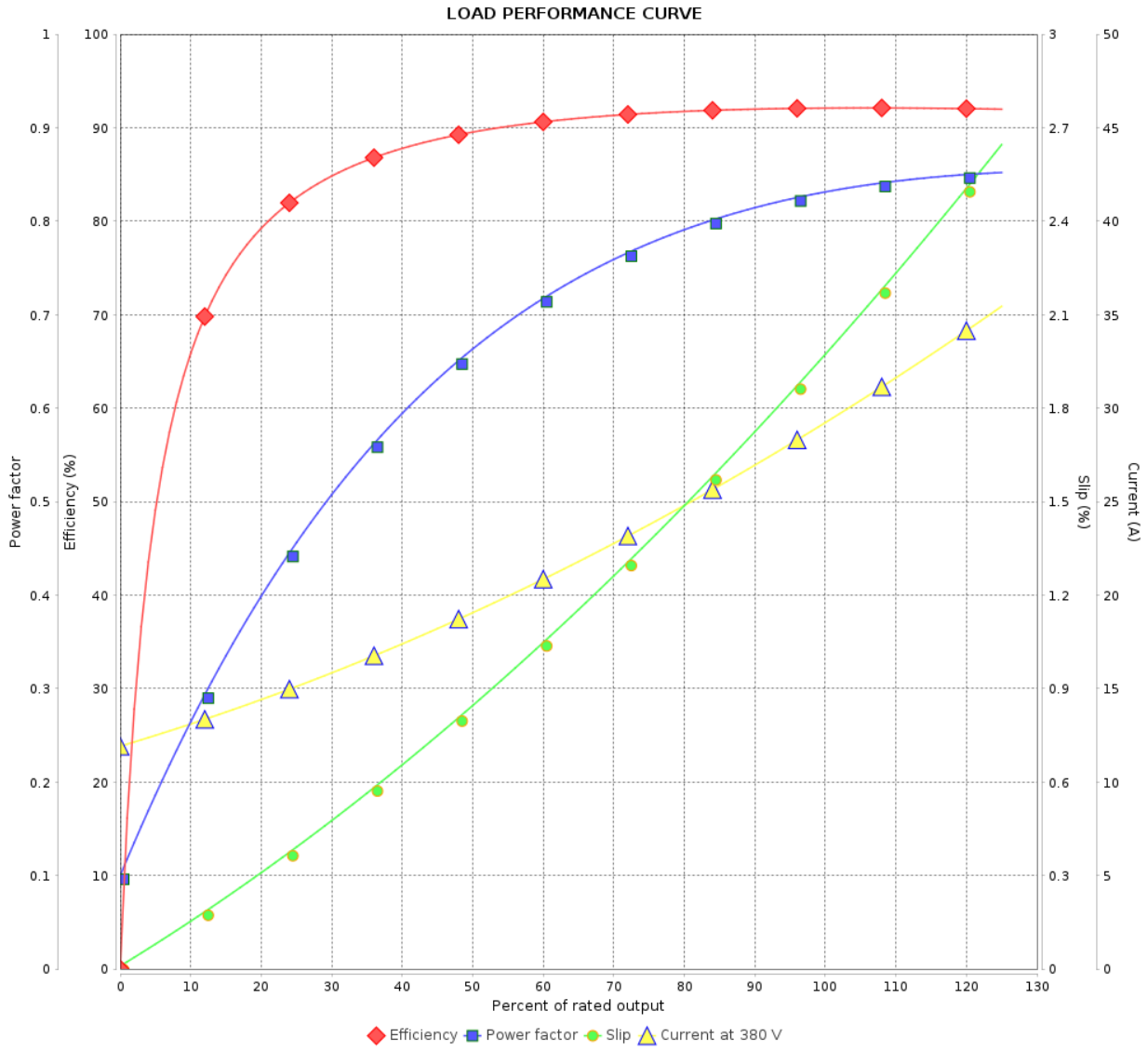
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11997216



Performance	: 380 V 50 Hz 4P IE3		
Rated current	: 29.8 A	Moment of inertia (J)	: 0.1435 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 9.87 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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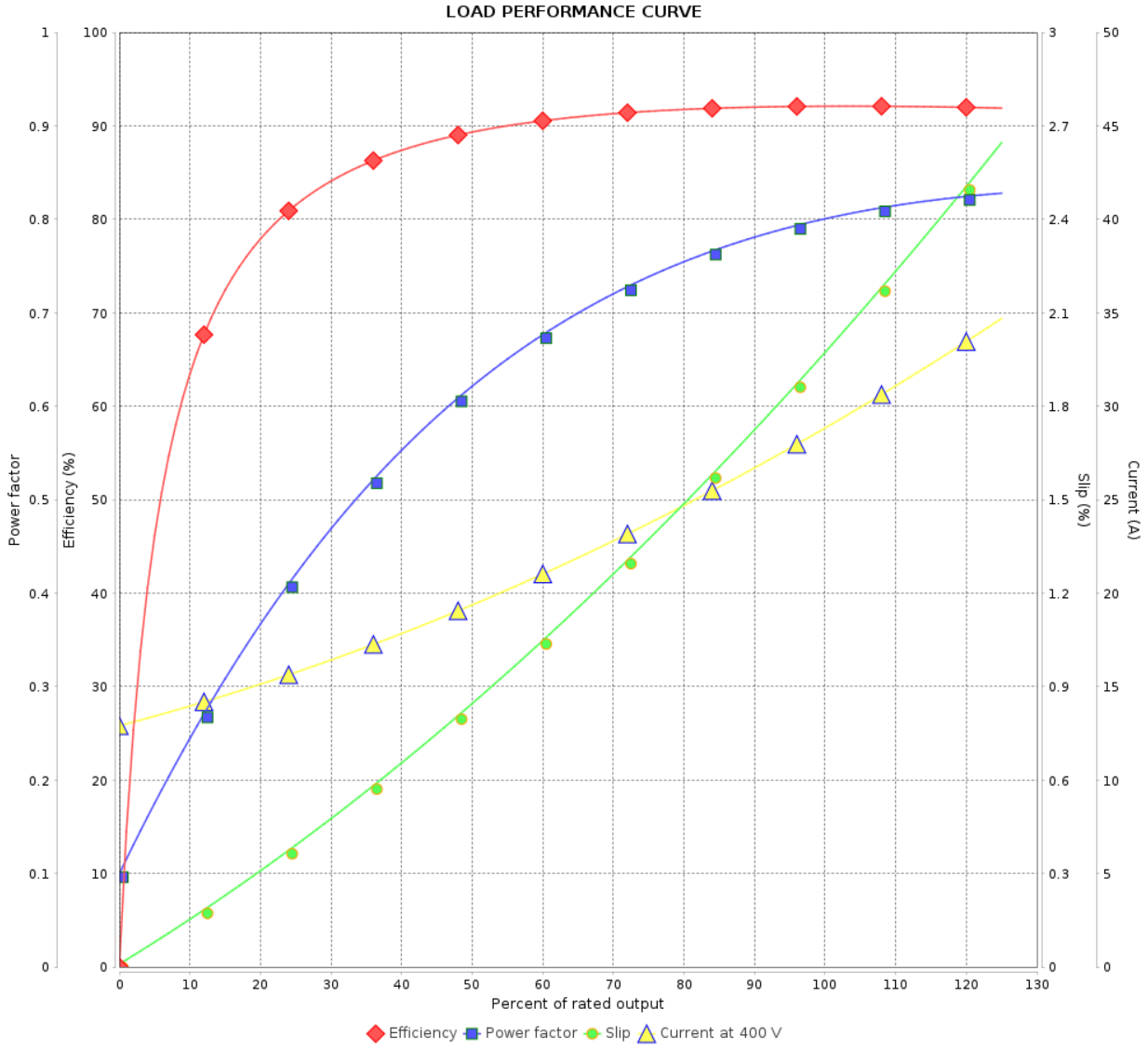
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	11997216



Performance	: 400 V 50 Hz 4P IE3

Rated current	: 29.4 A	Moment of inertia (J)	: 0.1435 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 9.87 kgfm	Insulation class	: F
Locked rotor torque	: 300 %	Service factor	: 1.15
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

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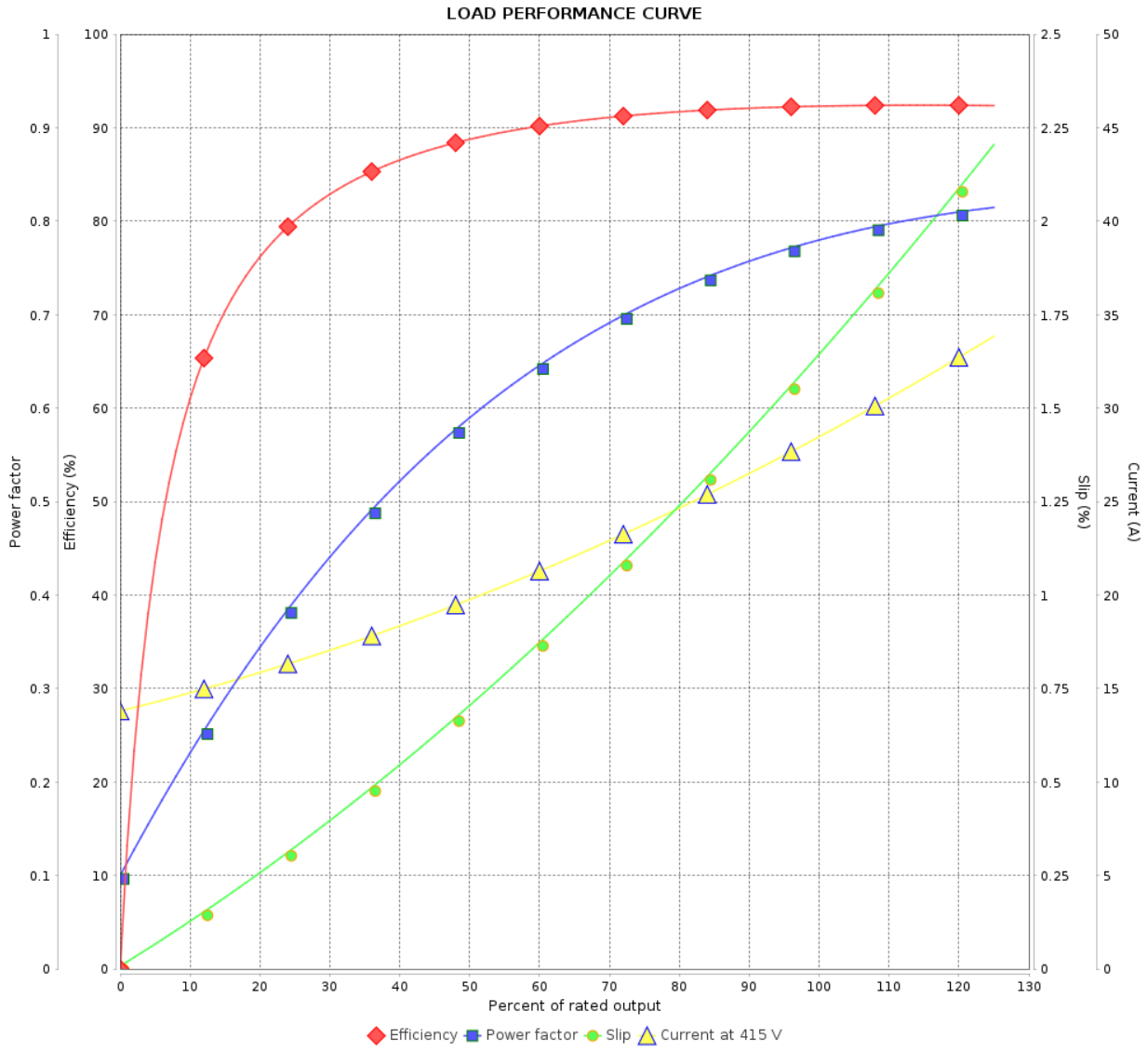
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	11997216



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 28.6 A	Moment of inertia (J)	: 0.1435 kgm²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 9.84 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	Service factor	: 1.15
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 1475 rpm	Design	: B

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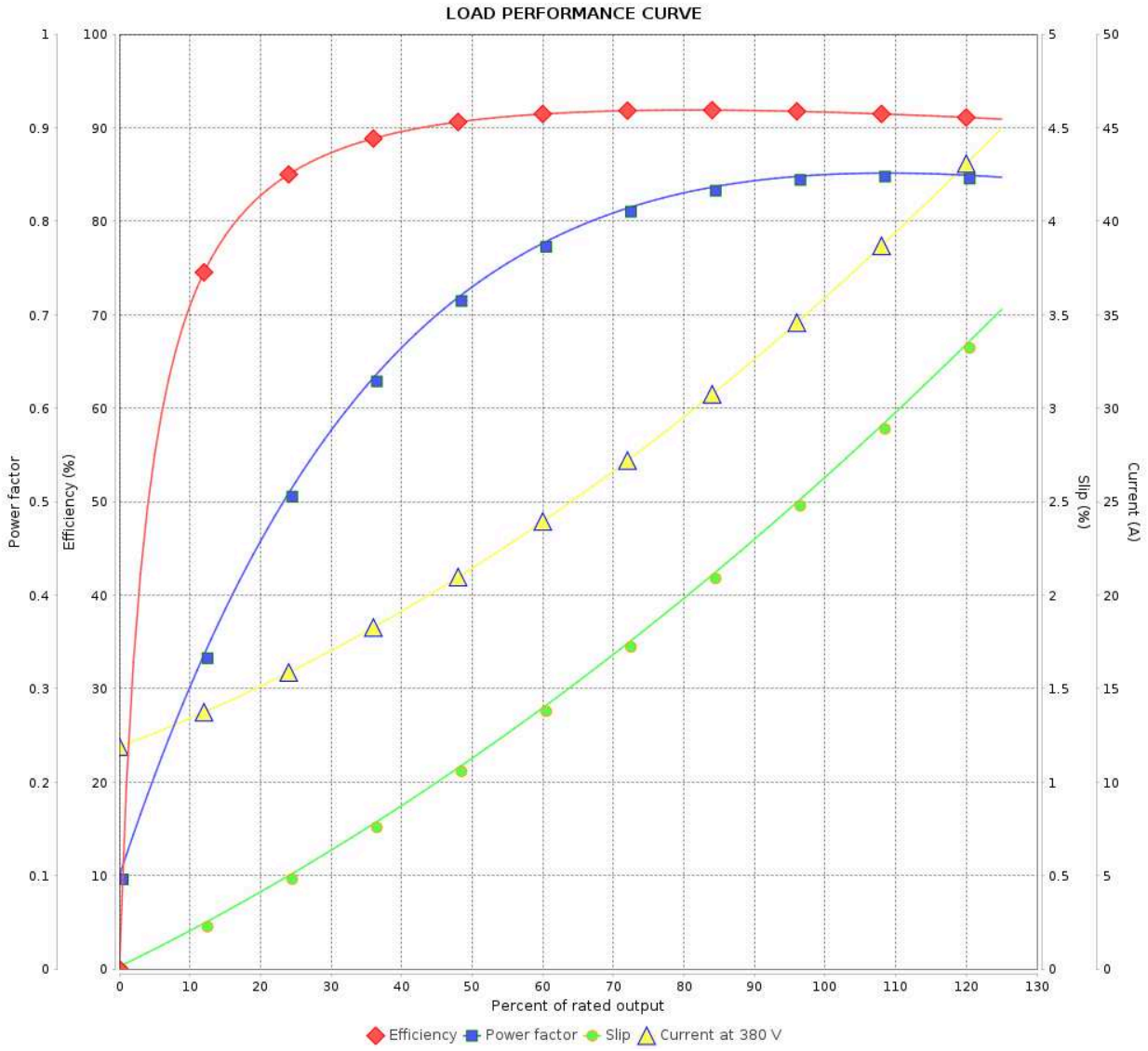
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	11997216



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 36.1 A	Moment of inertia (J)	: 0.1435 kgm²
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 12.4 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 1460 rpm	Design	: B

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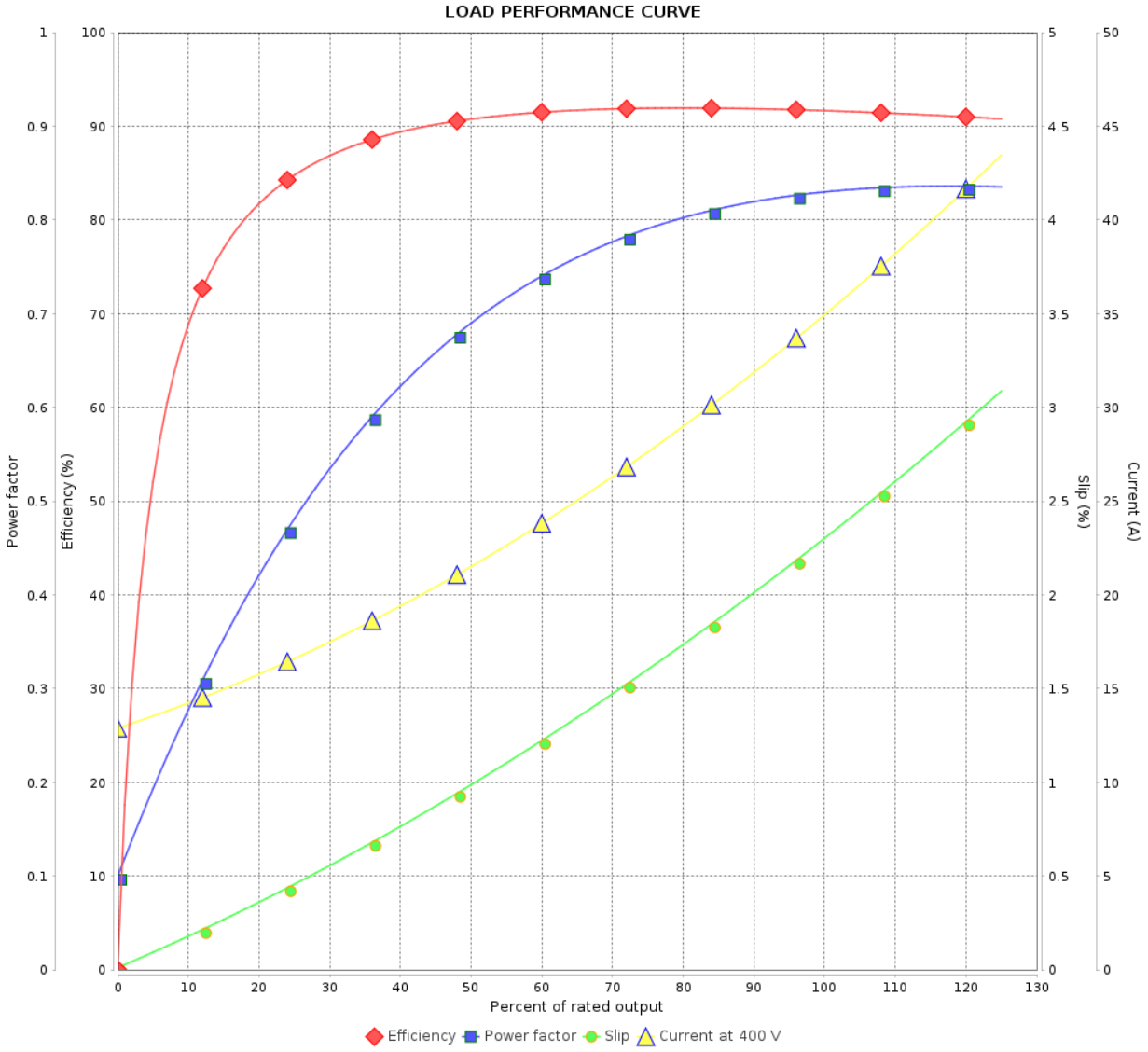
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11997216



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 35.1 A	Moment of inertia (J)	: 0.1435 kgm²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 12.4 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1465 rpm	Design	: B

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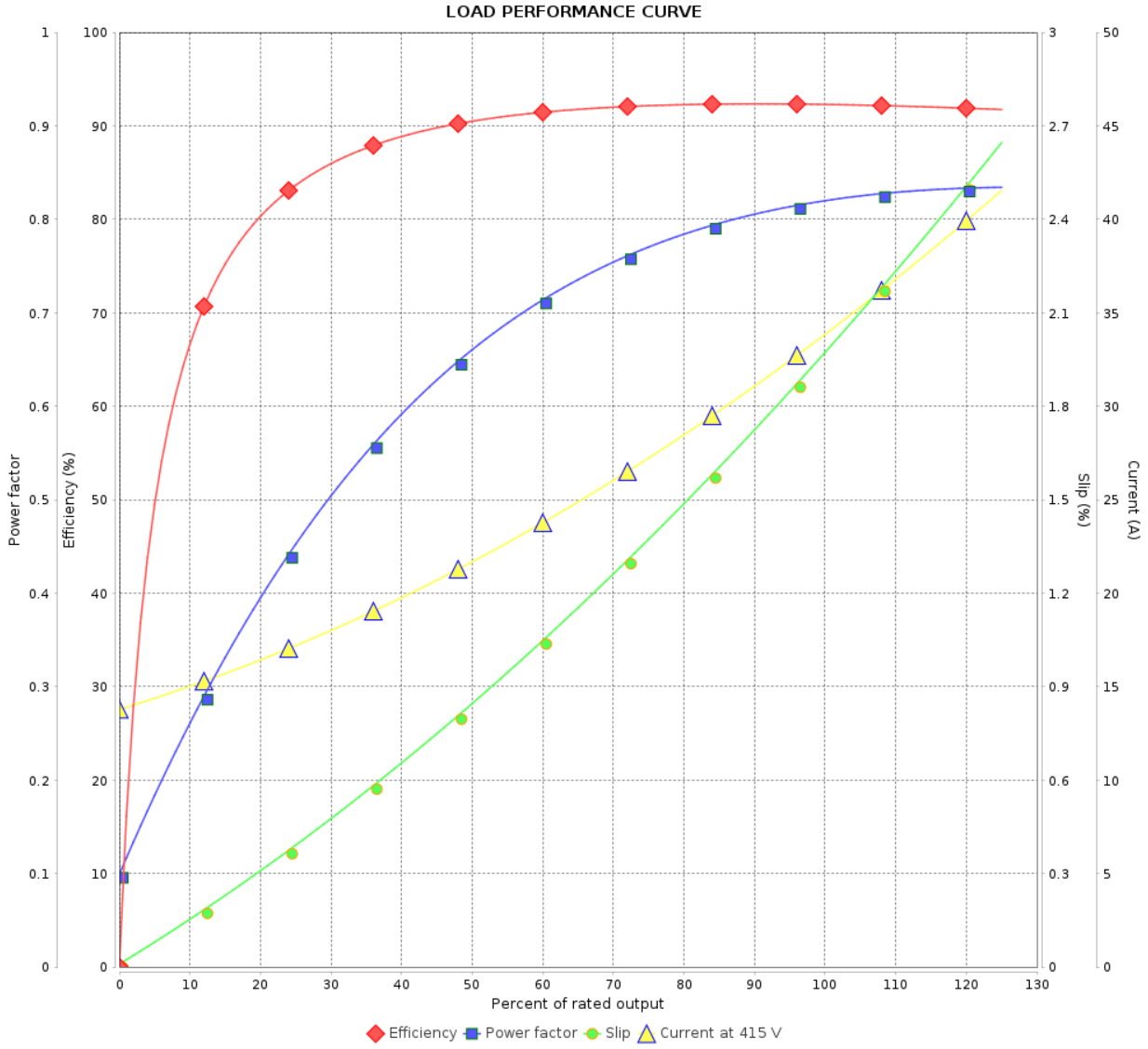
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Three Phase Induction Motor - Squirrel Cage

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Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	11997216



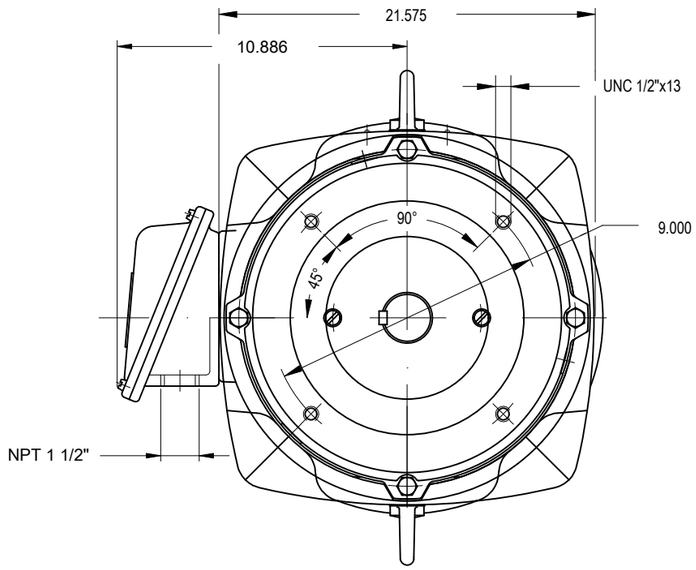
Performance	: 415 V 50 Hz 4P IE2

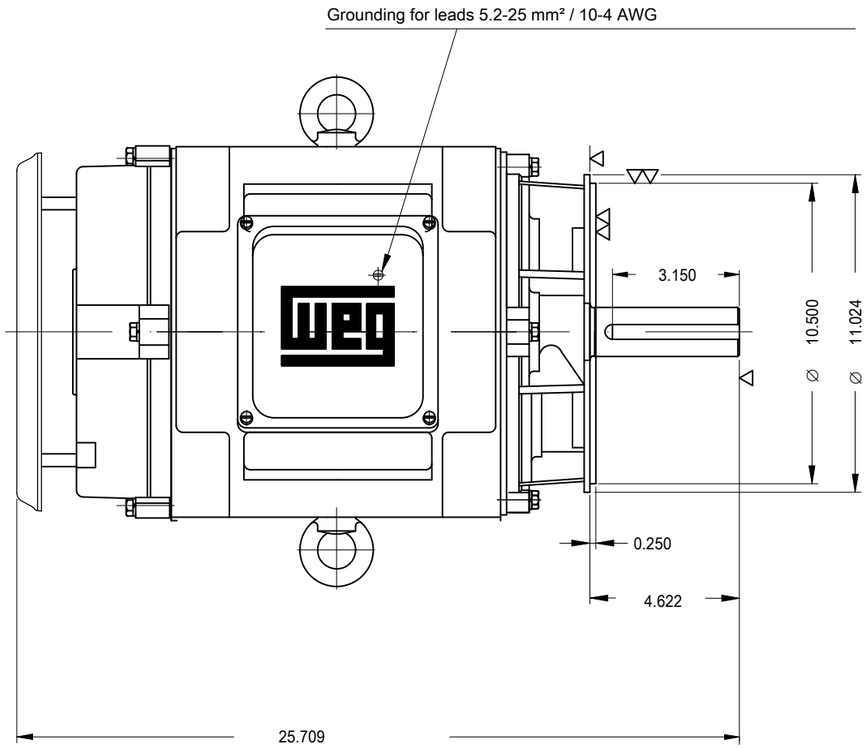
Rated current	: 34.0 A	Moment of inertia (J)	: 0.1435 kgm²
LRC	: 5.5	Duty cycle	: Cont.(S1)
Rated torque	: 12.3 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

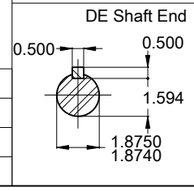
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With drip cover
Color RAL 5009
Painting plan 203A
Mounting B14R(D)

25 HP 04 Poles 60 Hz | A

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

EXECUTED	HYBRISUSER	THREE PH. MOTOR GENERAL NEMA PREM. EFF.	PREVIEW
CHECKED		FRAME 284TC IP23 ODP	WDD 00
RELEASED			
REL. DATE		WMO Jaragua do Sul Product Engineering	SHEET 1 / 1

Dimensions in inches
XME A3

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