DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11456858

Frame	: 143/5TC	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	: 23.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0026 kgm²
Design	: B		

Output [HP]		2	1.5	1.5	1.5	2	2	2
Poles		2	2	2	2	2	2	2
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		230/460	380	400	415	380	400	415
Rated current [A]		5.38/2.69	2.47	2.42	2.43	3.18	3.03	2.99
L. R. Amperes [A]		47.9/23.9	21.2	22.5	22.6	21.0	21.8	23.3
LRC [A]		8.9x(Code L)	8.6x(Code L)	9.3x(Code M)	9.3x(Code M)	6.6x(Code H)	7.2x(Code J)	7.8x(Code K)
No load current [A]		2.40/1.20	1.20	1.30	1.40	1.20	1.30	1.50
Rated speed [RPM]		3500	2915	2920	2930	2855	2880	2890
Slip [%]		2.78	2.83	2.67	2.33	4.83	4.00	3.67
Rated torque [kgfm]		0	0	0	0	0	0	0
Locked rotor torque [%]		270	280	310	340	200	229	250
Breakdown torque [%]		380	370	420	440	250	300	300
Service factor		1.25	1.25	1.25	1.25	1.25	1.25	1.25
Temperature rise		80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time		21s (cold) 12s (hot)	25s (cold) 14s (hot)	25s (cold) 14s (hot)	23s (cold) 13s (hot)	19s (cold) 11s (hot)	21s (cold) 12s (hot)	18s (cold) 10s (hot)
Noise level²		68.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)	62.0 dB(A)
Efficiency (%)	25%							
	50%	82.5	81.4	80.3	80.1	82.5	82.5	82.5
	75%	85.5	83.3	83.1	83.1	84.0	84.0	84.0
	100%	85.5	83.5	84.0	84.0	82.5	84.0	84.0
Power Factor	25%							
	50%	0.64	0.61	0.60	0.52	0.71	0.68	0.65
	75%	0.76	0.73	0.69	0.65	0.82	0.79	0.77
	100%	0.82	0.81	0.78	0.75	0.87	0.85	0.83

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

Losses (%)	P1 (0,9;1,0)	15.7	18.3	17.6	17.6	19.6	17.6	17.6
	P2 (0,5;1,0)	12.3	14.3	13.8	13.8	15.4	13.8	13.8
	P3 (0,25;1,0)	11.6	13.5	13.0	13.0	14.5	13.0	13.0
	P4 (0,9;0,5)	8.8	10.3	9.9	9.9	11.0	9.9	9.9
	P5 (0,5;0,5)	5.4	6.3	6.1	6.1	6.8	6.1	6.1
	P6 (0,5;0,25)	3.9	4.6	4.4	4.4	4.9	4.4	4.4
	P7 (0,25;0,25)	2.7	3.1	3.0	3.0	3.4	3.0	3.0

		Drive end	Non drive end
Bearing type	:	6205 ZZ	6204 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads

Max. traction : 31 kgf

Max. compression : 54 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 5.60A SF 1.15 SFA 6.43A

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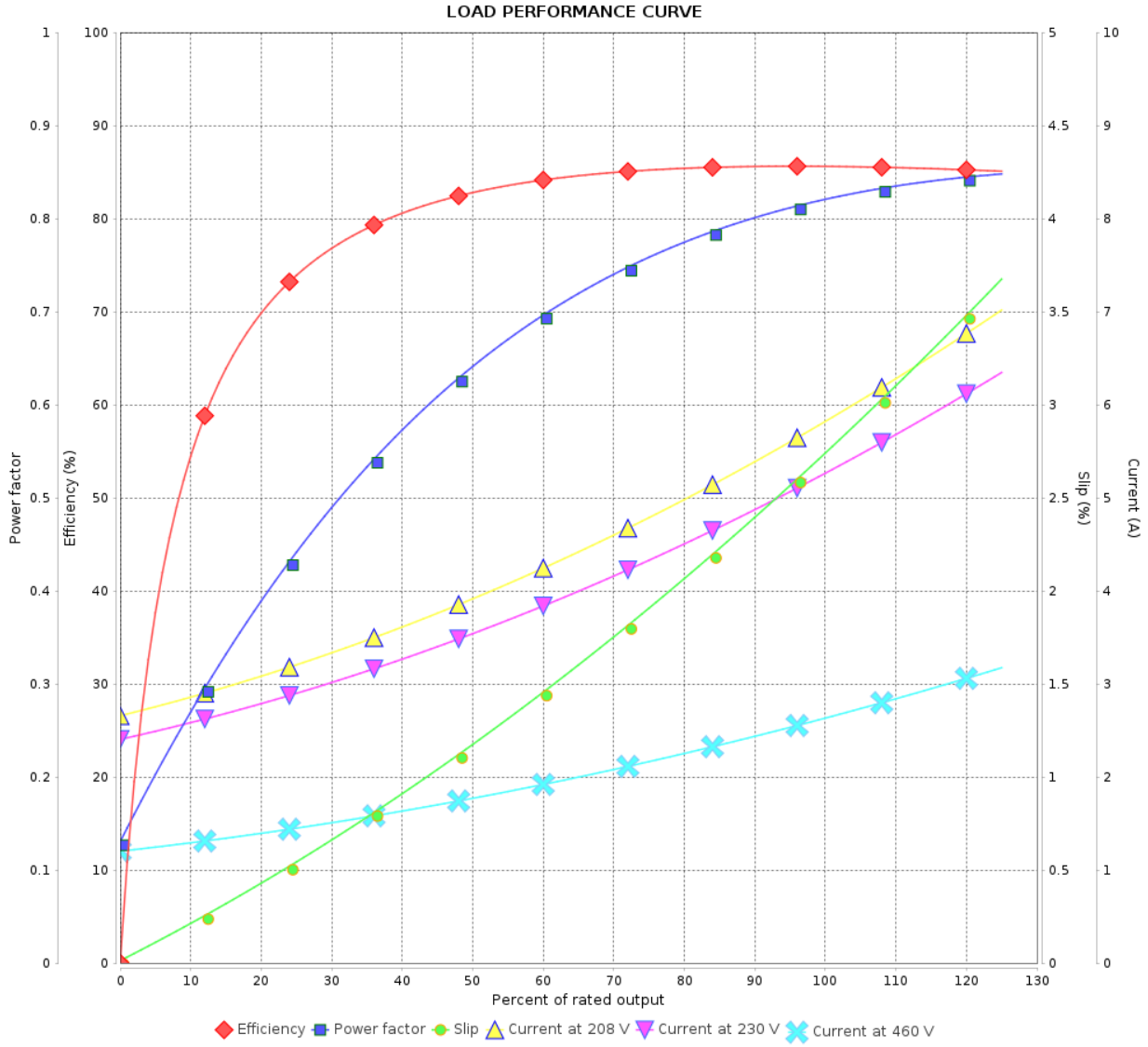
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11456858



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 5.38/2.69 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 8.9	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm	Design	: B

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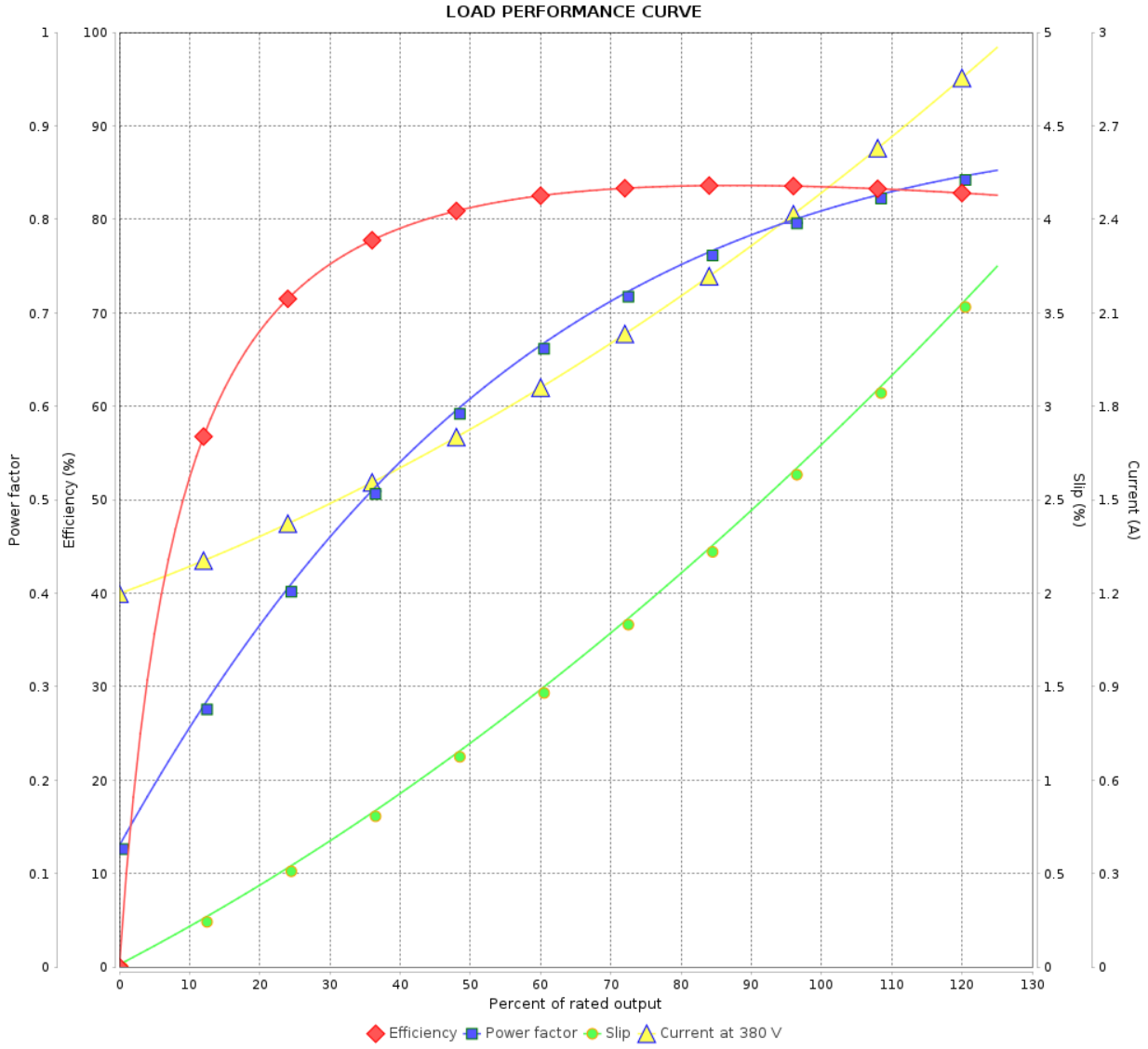
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11456858



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 2.47 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 370 %	Temperature rise	: 80 K
Rated speed	: 2915 rpm	Design	: B

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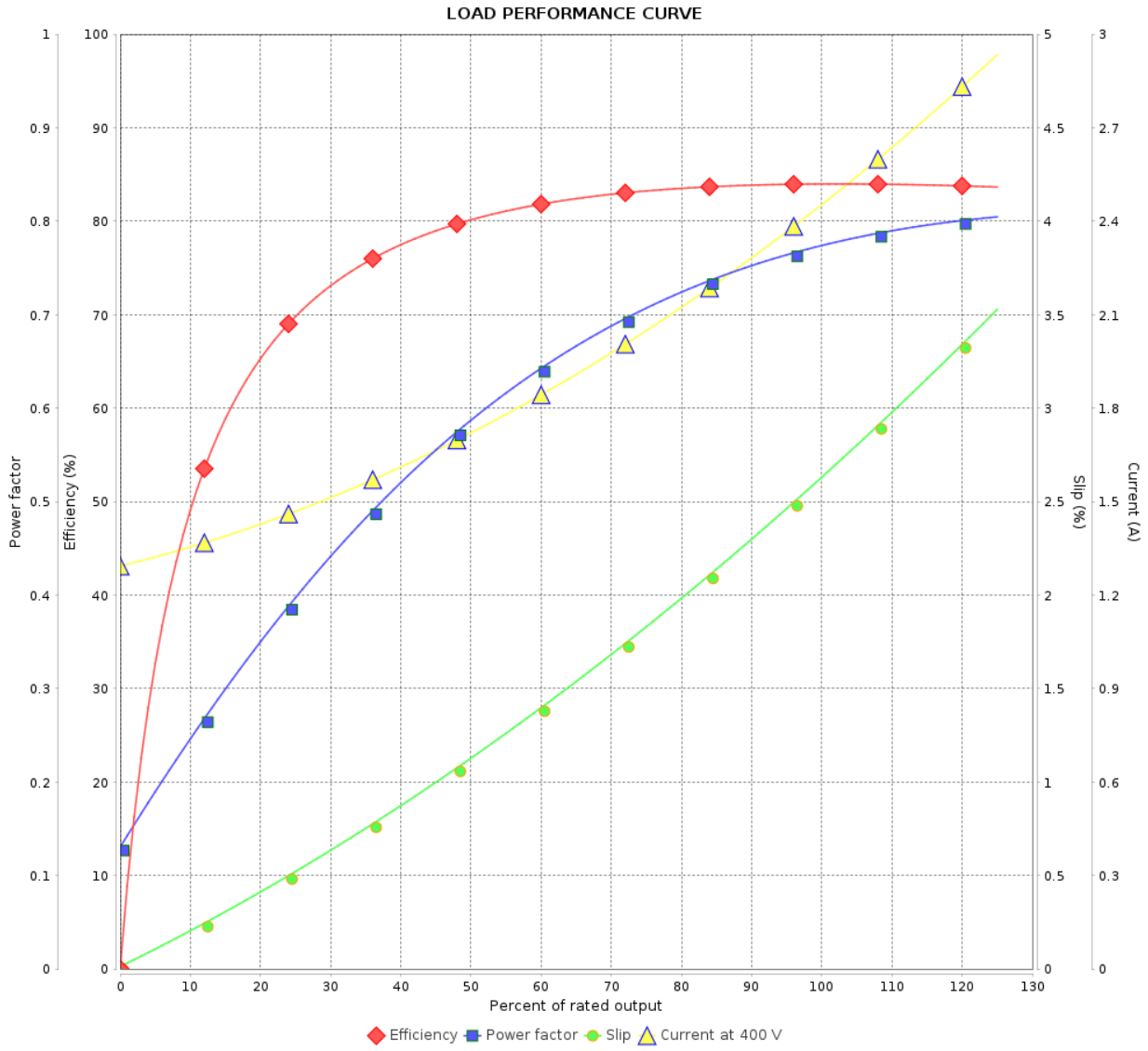
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11456858



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 2.42 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 9.3	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 310 %	Service factor	: 1.25
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm	Design	: B

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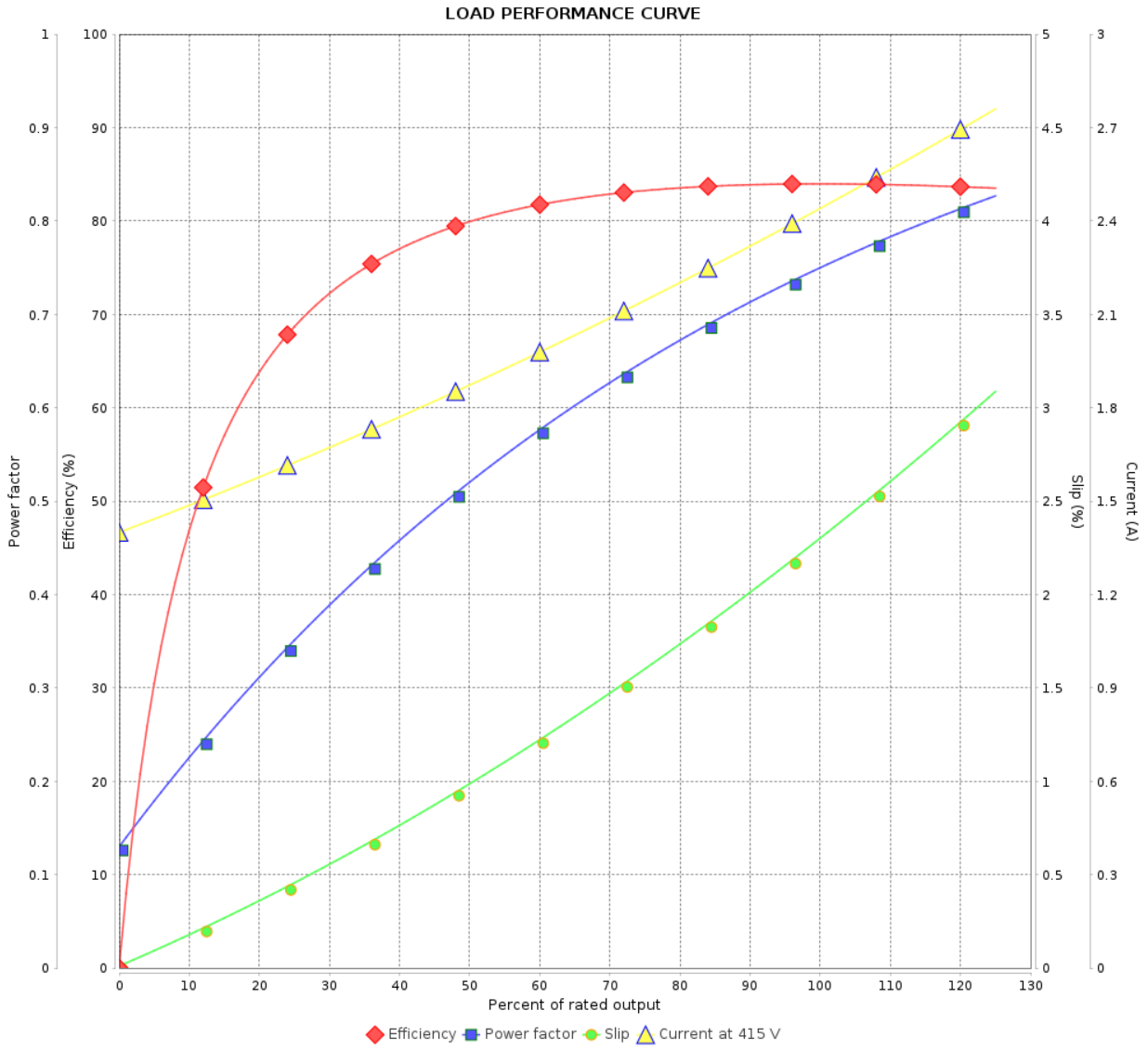
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	11456858



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 2.43 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 9.3	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 340 %	Service factor	: 1.25
Breakdown torque	: 440 %	Temperature rise	: 80 K
Rated speed	: 2930 rpm	Design	: B

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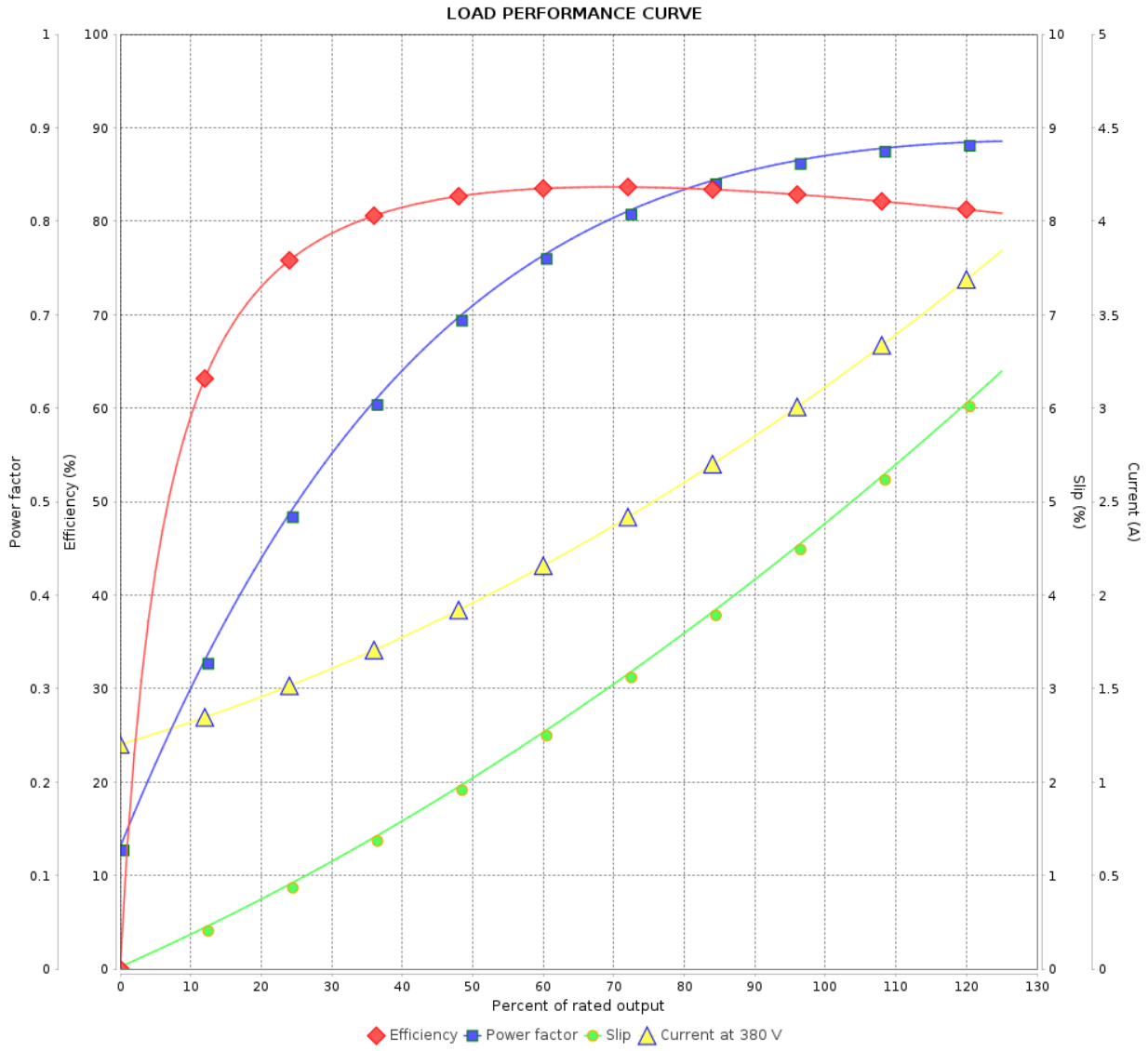
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11456858



Performance	: 380 V 50 Hz 2P IE2		
Rated current	: 3.18 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 6.6	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2855 rpm	Design	: B

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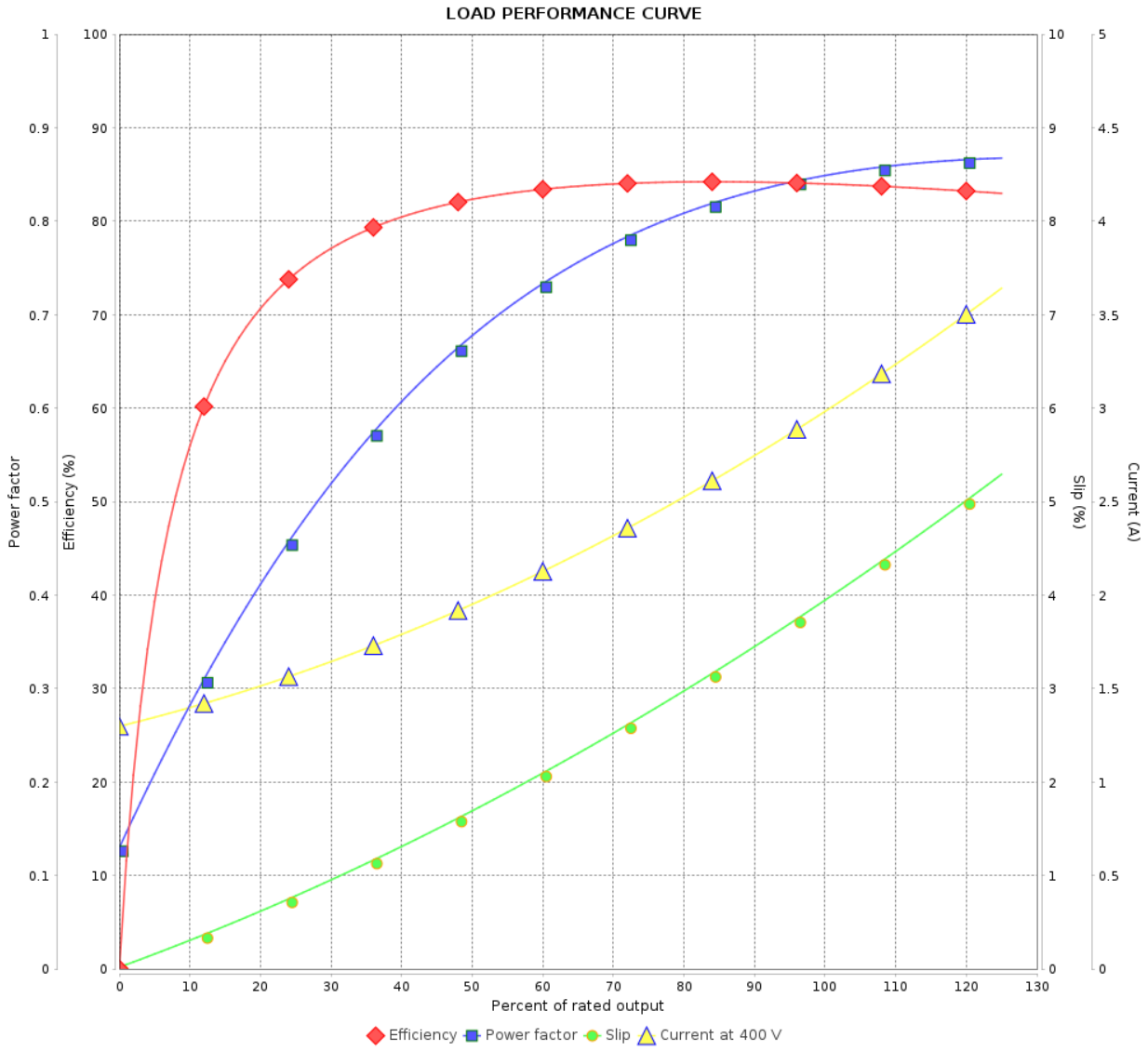
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Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 NEMA Premium Efficiency Three-Phase
Product code :	11456858



Performance	: 400 V 50 Hz 2P IE2		
Rated current	: 3.03 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2880 rpm	Design	: B

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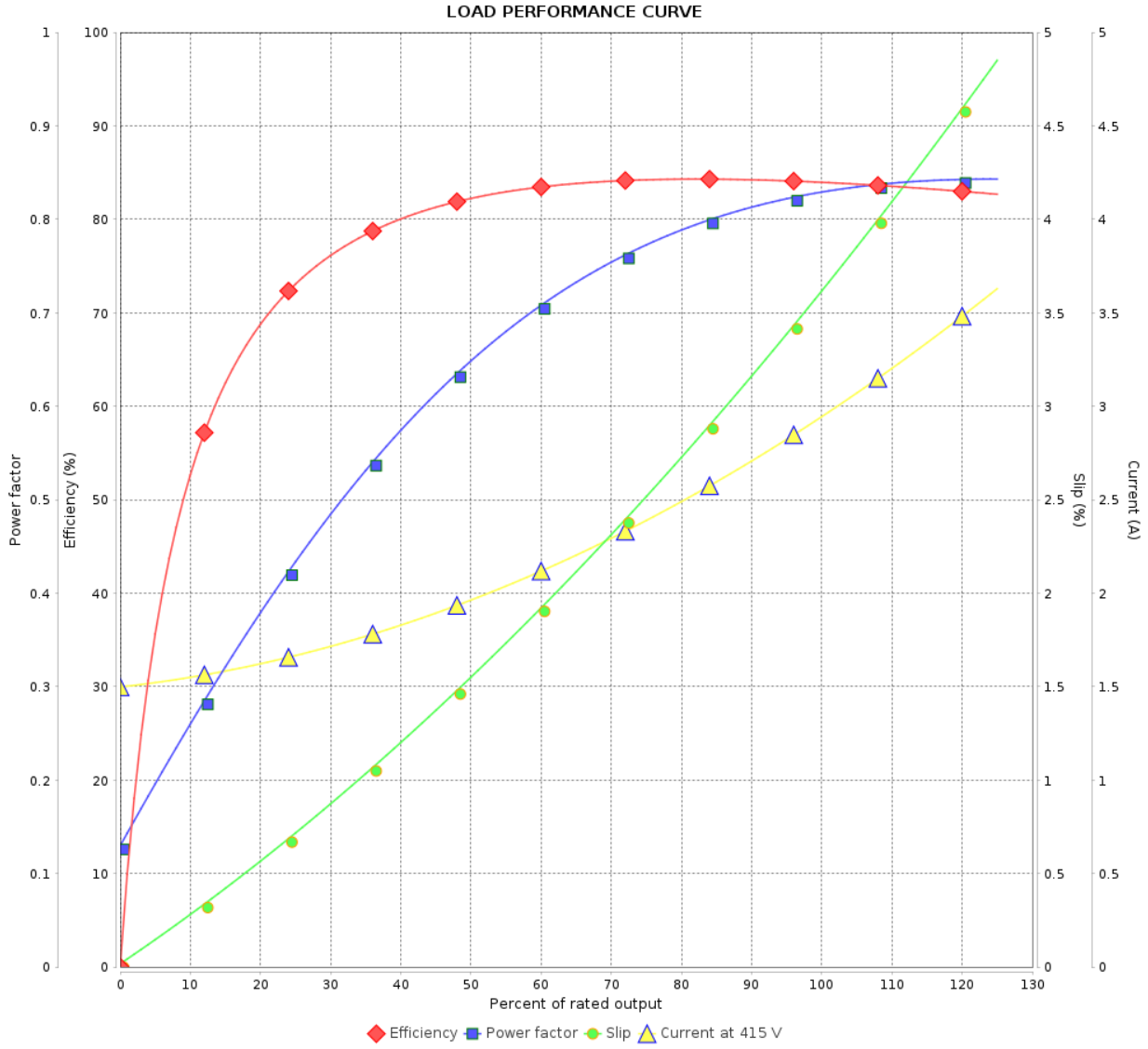
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 11456858



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 2.99 A	Moment of inertia (J)	: 0.0026 kgm²
LRC	: 7.8	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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