DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717137

Frame	: 182/4TC	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	: 40.0 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0080 kgm²
Design	: B		

Output [HP]		3	2	2	2	3	3	3
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]		7.52/3.76	3.28	3.24	3.24	4.44	4.32	4.26
L. R. Amperes [A]		64.7/32.3	31.8	35.0	36.0	31.1	32.8	35.4
LRC [A]		8.6x(Code K)	9.7x(Code M)	10.8x(Code N)	11.1x(Code P)	7.0x(Code H)	7.6x(Code J)	8.3x(Code K)
No load current [A]		3.20/1.60	1.50	1.65	1.80	1.50	1.70	1.80
Rated speed [RPM]		3515	2935	2940	2945	2890	2900	2910
Slip [%]		2.36	2.17	2.00	1.83	3.67	3.33	3.00
Rated torque [kgfm]		0	0	0	0	0	0	0
Locked rotor torque [%]		250	280	320	350	190	210	229
Breakdown torque [%]		380	420	470	509	270	300	330
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		46s (cold) 26s (hot)	52s (cold) 29s (hot)	43s (cold) 24s (hot)	48s (cold) 27s (hot)	41s (cold) 23s (hot)	43s (cold) 24s (hot)	34s (cold) 19s (hot)
Noise level²		66.0 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%	82.0	81.0	80.6	79.7	84.0	84.0	84.0
	75%	86.0	84.5	84.5	84.1	85.5	85.5	85.5
	100%	86.5	85.8	85.8	85.9	85.5	85.5	85.5
Power Factor	25%							
	50%	0.70	0.63	0.58	0.55	0.76	0.71	0.68
	75%	0.80	0.75	0.71	0.67	0.84	0.81	0.79
	100%	0.85	0.81	0.78	0.75	0.88	0.86	0.84

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

Losses (%)	P1 (0,9;1,0)	14.6	14.6	14.6	14.6	14.6	14.6	14.6
	P2 (0,5;1,0)	10.7	10.7	10.7	10.7	10.7	10.7	10.7
	P3 (0,25;1,0)	9.4	9.4	9.4	9.4	9.4	9.4	9.4
	P4 (0,9;0,5)	8.3	8.3	8.3	8.3	8.3	8.3	8.3
	P5 (0,5;0,5)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	P6 (0,5;0,25)	3.1	3.1	3.1	3.1	3.1	3.1	3.1
	P7 (0,25;0,25)	1.8	1.8	1.8	1.8	1.8	1.8	1.8

		Drive end	Non drive end
Bearing type	:	6207 ZZ	6206 ZZ
Sealing	:	V'Ring	V'Ring
Lubrication interval	:	-	-
Lubricant amount	:	-	-
Lubricant type	:	00088	

Foundation loads

Max. traction : 32 kgf

Max. compression : 70 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 8.01A SF 1.15 SFA 9.21A

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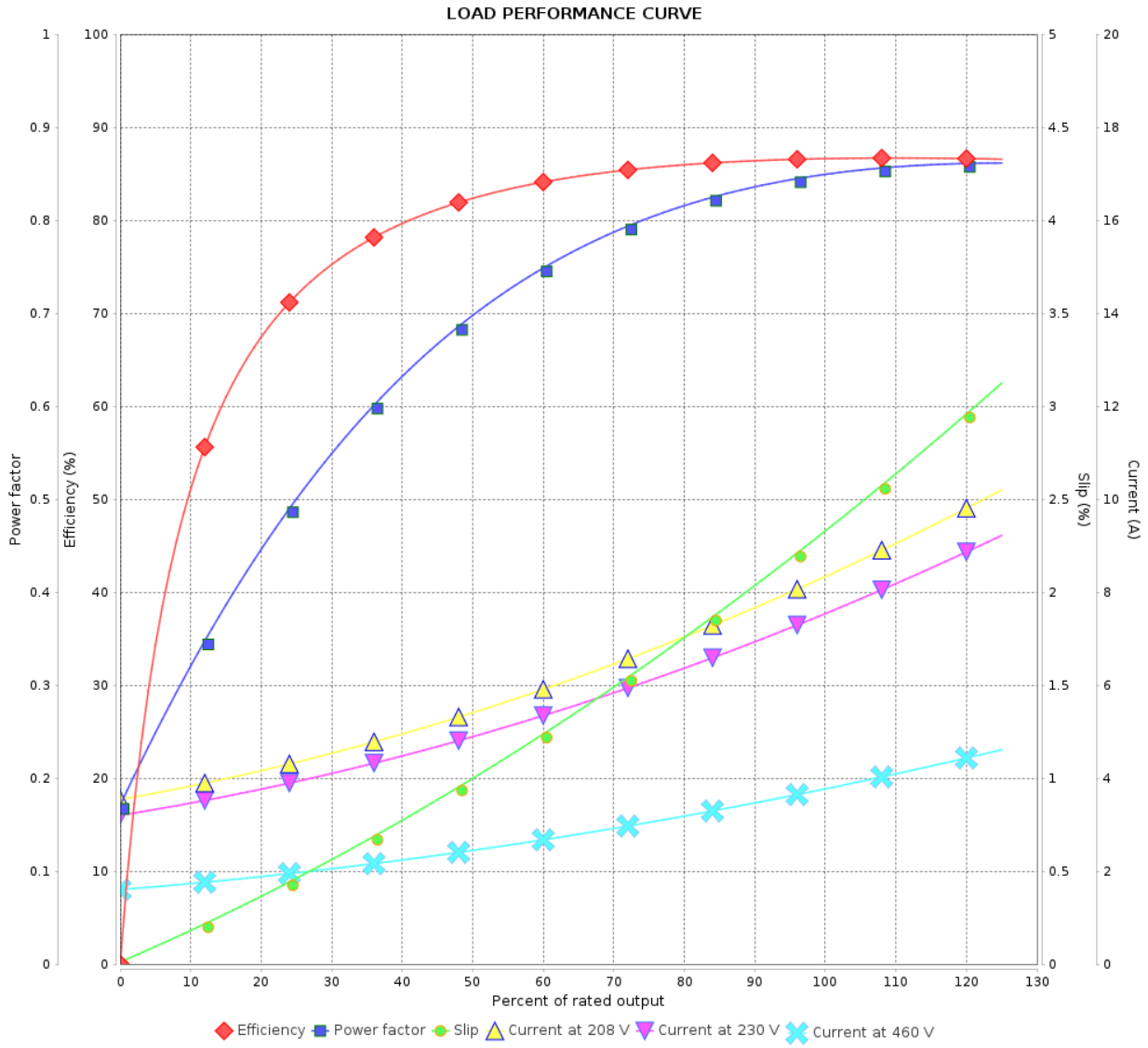
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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

Customer	:
Product line	: W22 NEMA Premium Efficiency Three-Phase
Product code :	12717137



Performance	: 230/460 V 60 Hz 2P		
Rated current	: 7.52/3.76 A	Moment of inertia (J)	: 0.0080 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 380 %	Temperature rise	: 80 K
Rated speed	: 3515 rpm	Design	: B

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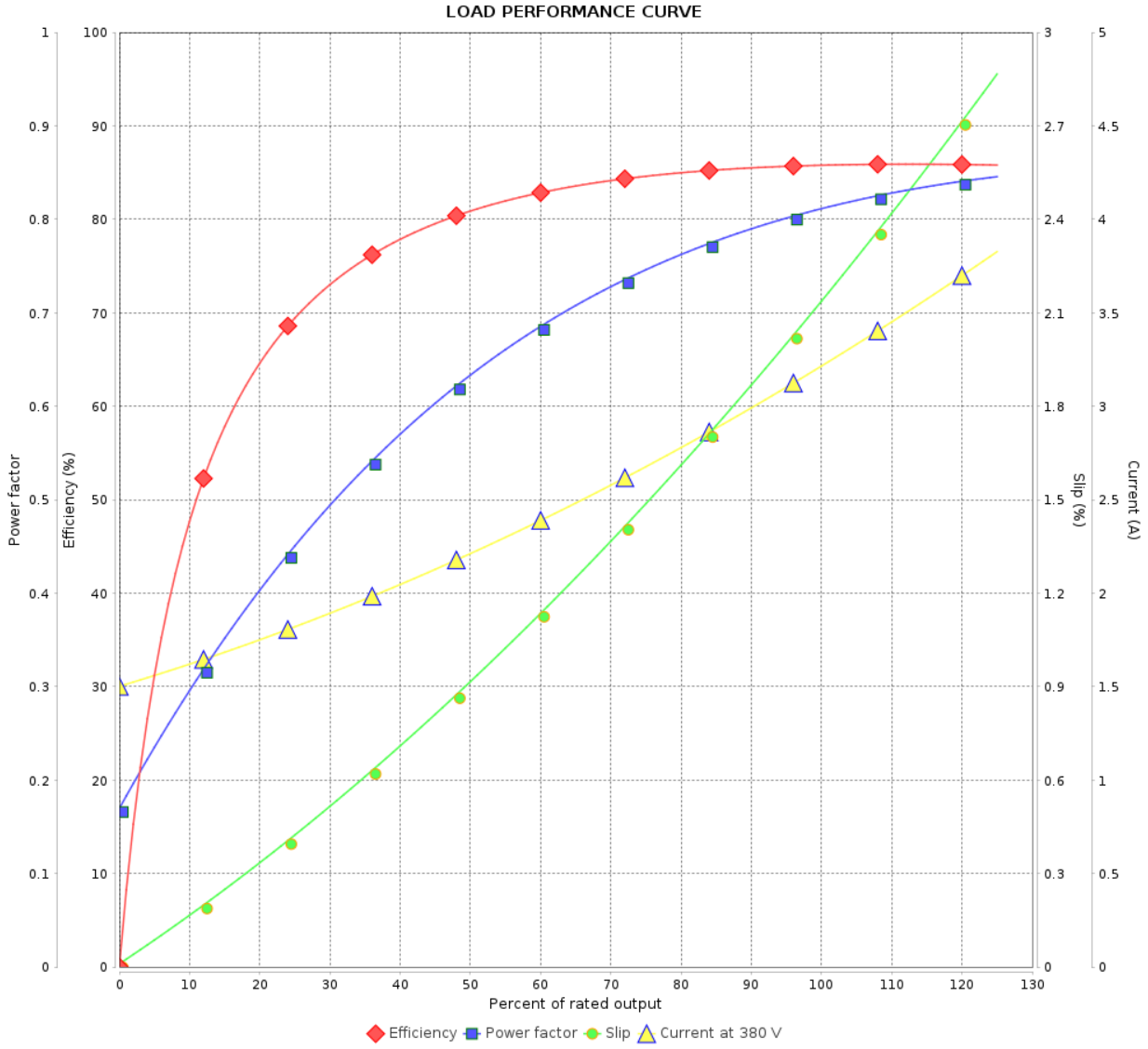
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717137



Performance	: 380 V 50 Hz 2P IE3		
Rated current	: 3.28 A	Moment of inertia (J)	: 0.0080 kgm²
LRC	: 9.7	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 280 %	Service factor	: 1.25
Breakdown torque	: 420 %	Temperature rise	: 80 K
Rated speed	: 2935 rpm	Design	: B

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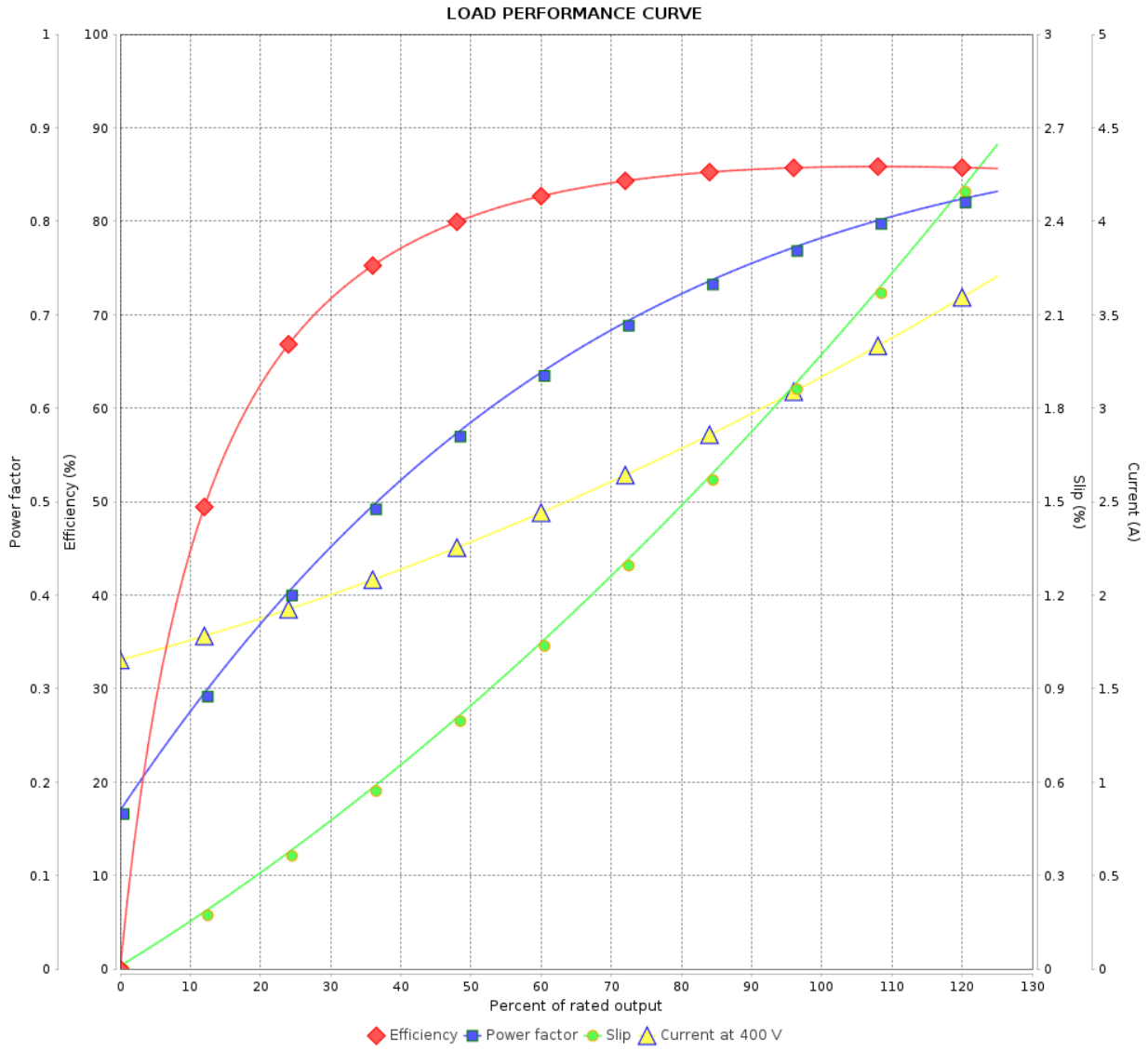
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717137



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 3.24 A	Moment of inertia (J)	: 0.0080 kgm²
LRC	: 10.8	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 320 %	Service factor	: 1.25
Breakdown torque	: 470 %	Temperature rise	: 80 K
Rated speed	: 2940 rpm	Design	: B

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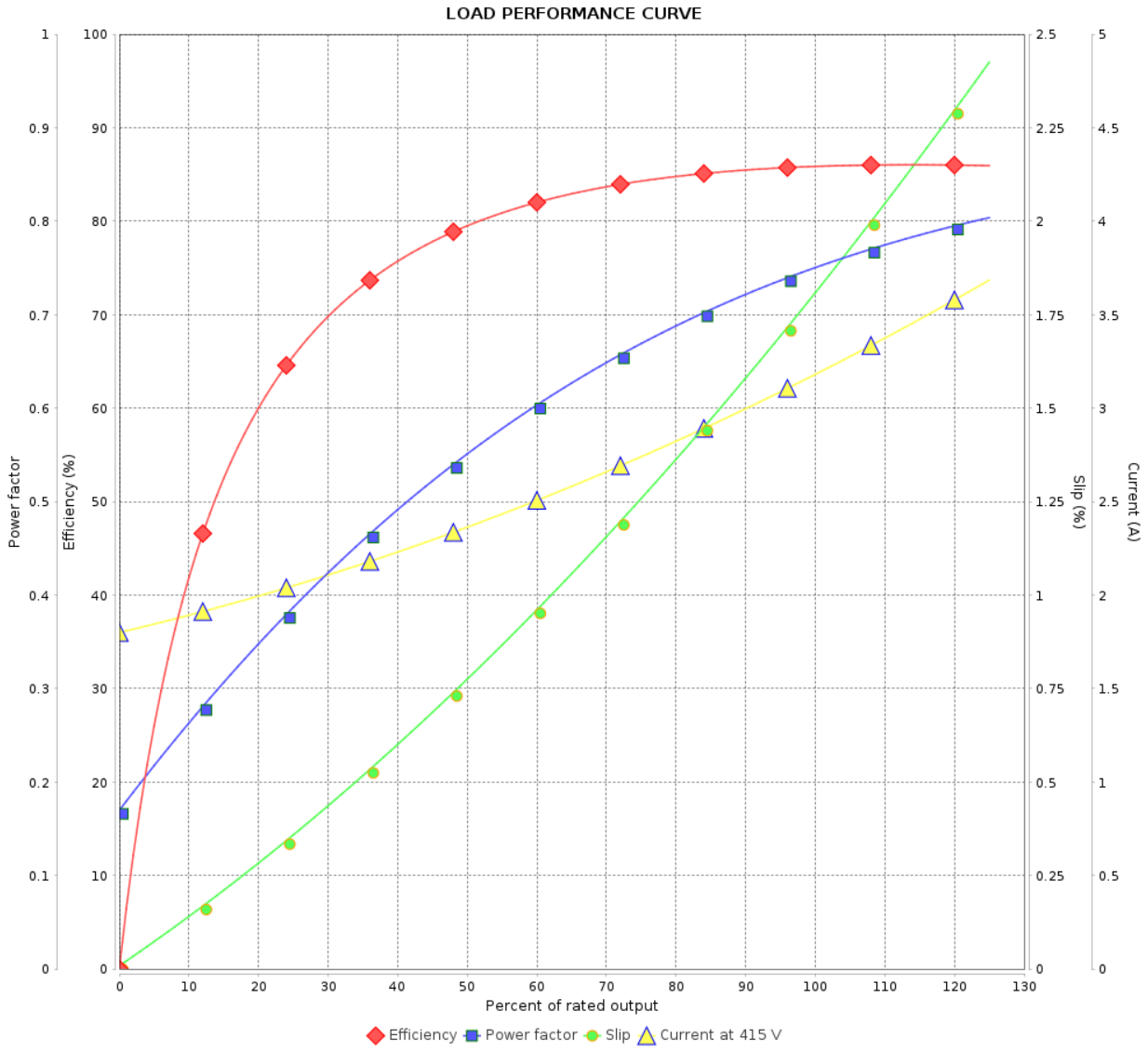
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717137



Performance	: 415 V 50 Hz 2P IE3		
Rated current	: 3.24 A	Moment of inertia (J)	: 0.0080 kgm²
LRC	: 11.1	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 350 %	Service factor	: 1.25
Breakdown torque	: 509 %	Temperature rise	: 80 K
Rated speed	: 2945 rpm	Design	: B

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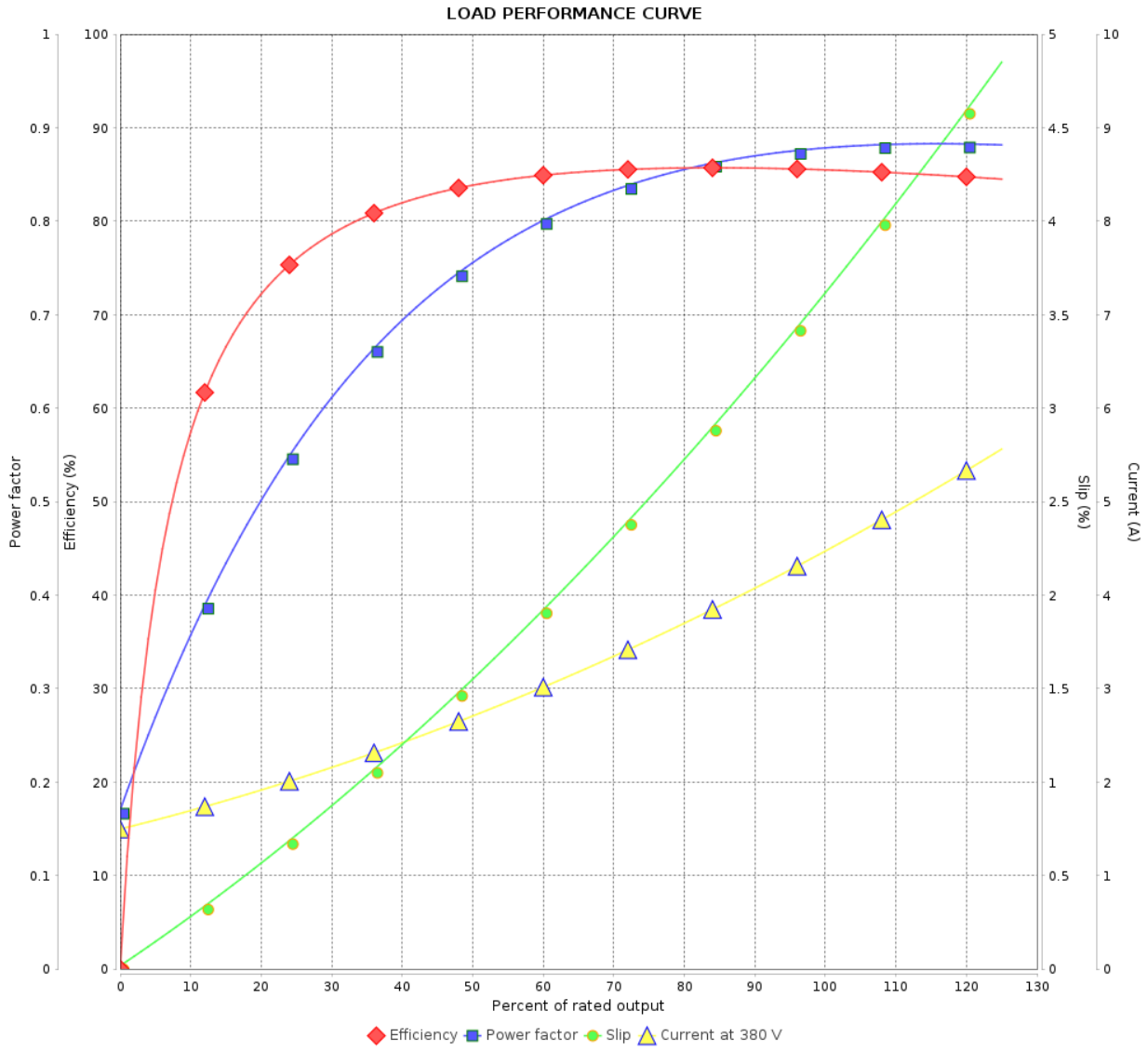
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717137



Performance	: 380 V 50 Hz 2P IE2		
Rated current	: 4.44 A	Moment of inertia (J)	: 0.0080 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2890 rpm	Design	: B

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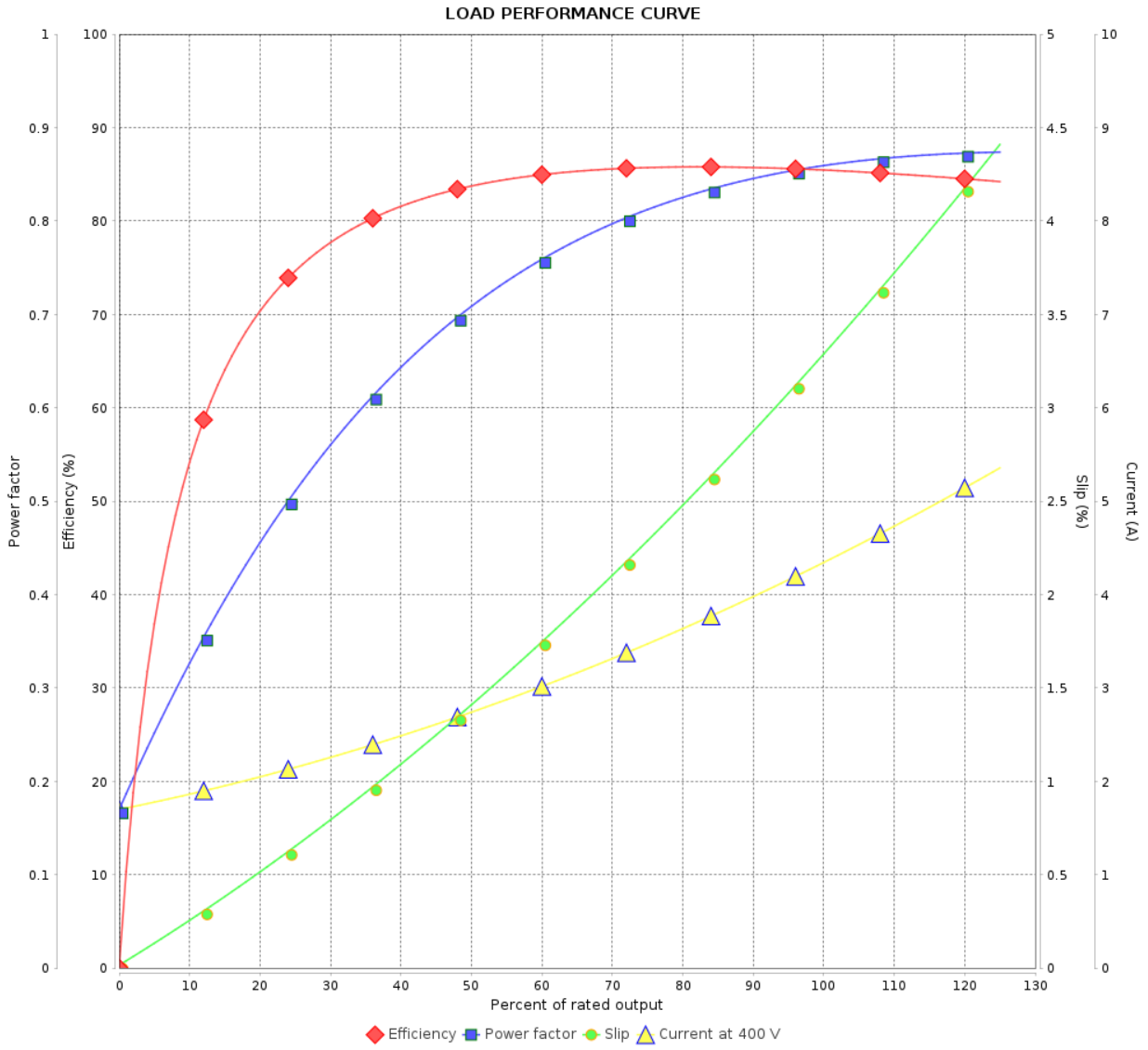
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717137



Performance	: 400 V 50 Hz 2P IE2

Rated current	: 4.32 A	Moment of inertia (J)	: 0.0080 kgm²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.25
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 2900 rpm	Design	: B

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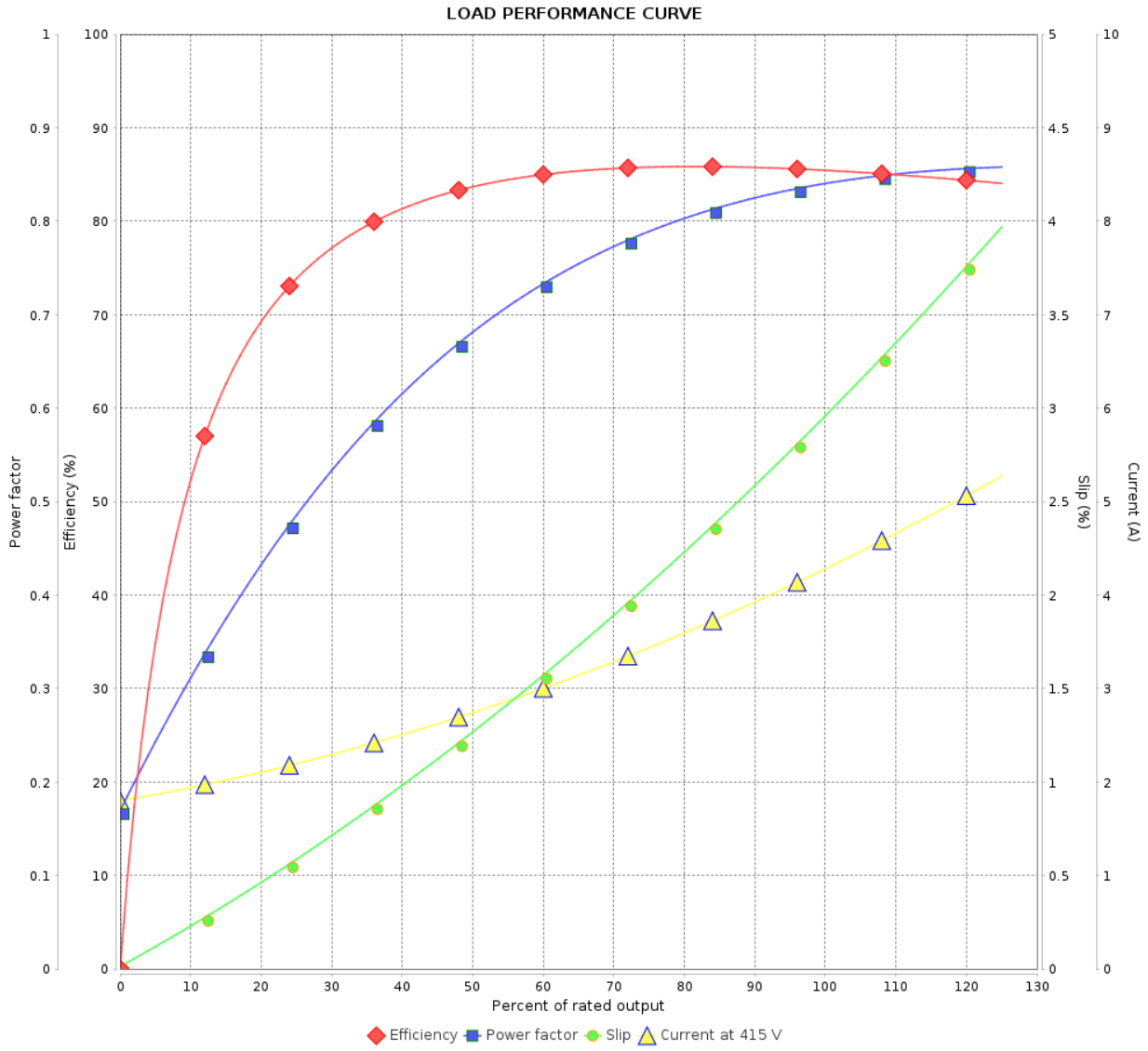
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717137



Performance	: 415 V 50 Hz 2P IE2

Rated current	: 4.26 A	Moment of inertia (J)	: 0.0080 kgm²
LRC	: 8.3	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 330 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm	Design	: B

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