DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12739547

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	: 16.5 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.0014 kgm²

Output [HP]		1	0.75	0.75	0.75	1	1	1
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]		2.94/1.47	1.34	1.32	1.33	1.71	1.65	1.63
L. R. Amperes [A]		24.1/12.1	11.5	11.9	12.5	11.5	11.9	12.6
LRC [A]		8.2x(Code L)	8.6x(Code M)	9.0x(Code M)	9.4x(Code N)	6.7x(Code J)	7.2x(Code K)	7.7x(Code L)
No load current [A]		1.54/0.770	0.740	0.820	0.880	0.740	0.820	0.880
Rated speed [RPM]		3500	2910	2920	2925	2865	2885	2895
Slip [%]		2.78	3.00	2.67	2.50	4.50	3.83	3.50
Rated torque [kgfm]		0	0	0	0	0	0	0
Locked rotor torque [%]		220	229	250	270	170	190	200
Breakdown torque [%]		310	310	340	360	220	250	270
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		36s (cold) 20s (hot)	46s (cold) 26s (hot)	43s (cold) 24s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (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%	75.0	72.9	72.3	71.7	77.0	77.0	77.0
	75%	79.0	77.6	77.6	77.6	78.5	78.5	78.5
	100%	80.0	80.0	80.0	80.0	78.5	80.0	80.0
Power Factor	25%							
	50%	0.63	0.58	0.53	0.50	0.68	0.63	0.60
	75%	0.74	0.70	0.66	0.63	0.78	0.75	0.72
	100%	0.80	0.78	0.75	0.72	0.85	0.82	0.80

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

Losses (%)	P1 (0,9;1,0)	22.8	22.8	22.8	22.8	22.8	22.8	22.8
	P2 (0,5;1,0)	16.9	16.9	16.9	16.9	16.9	16.9	16.9
	P3 (0,25;1,0)	16.0	16.0	16.0	16.0	16.0	16.0	16.0
	P4 (0,9;0,5)	14.5	14.5	14.5	14.5	14.5	14.5	14.5
	P5 (0,5;0,5)	8.4	8.4	8.4	8.4	8.4	8.4	8.4
	P6 (0,5;0,25)	6.7	6.7	6.7	6.7	6.7	6.7	6.7
	P7 (0,25;0,25)	4.4	4.4	4.4	4.4	4.4	4.4	4.4

		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 : 9 kgf

Max. compression : 29 kgf

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).

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 3.16A SF 1.15 SFA 3.64A

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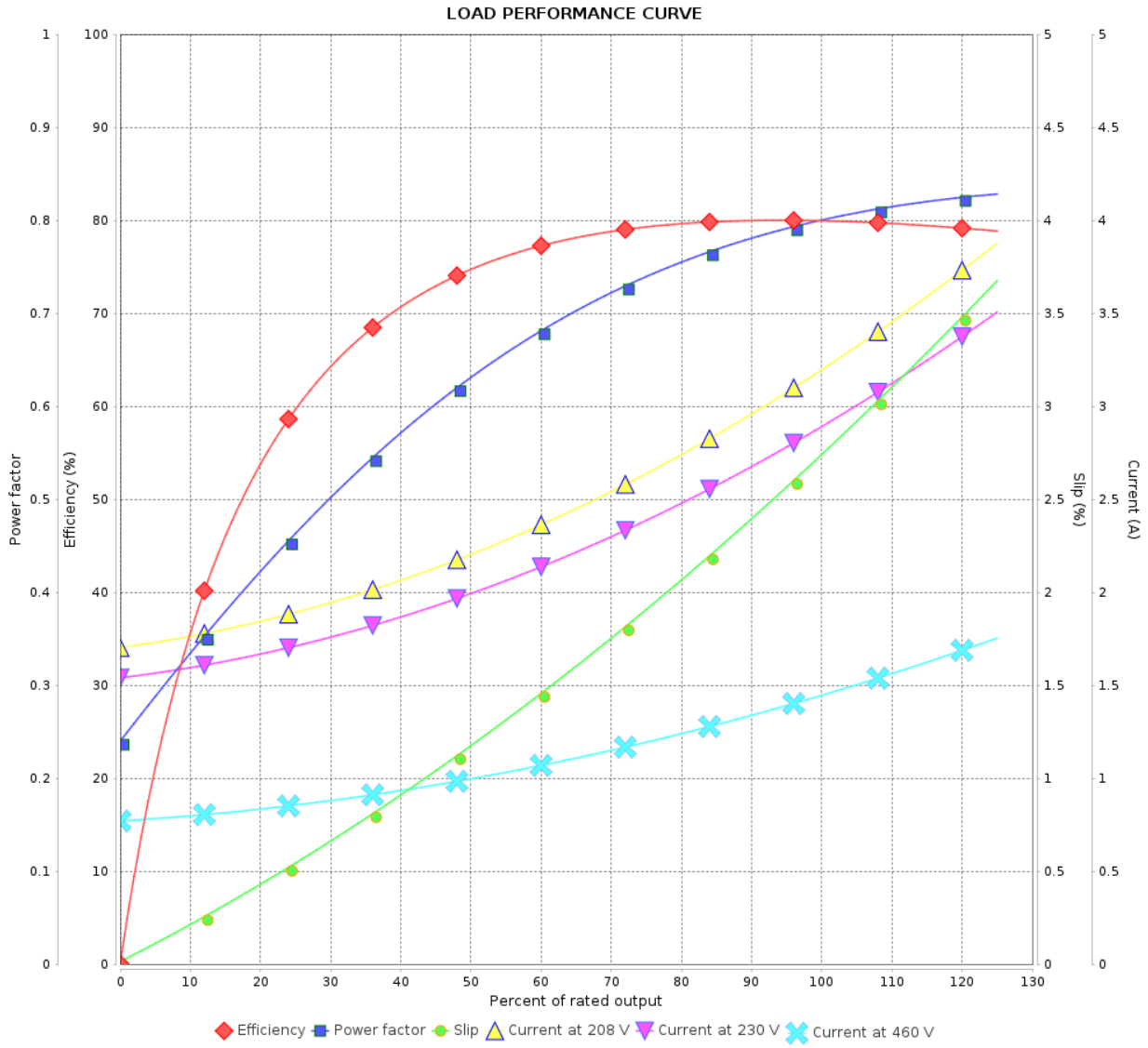
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12739547



Performance	: 230/460 V 60 Hz 2P

Rated current	: 2.94/1.47 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 8.2	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 3500 rpm		

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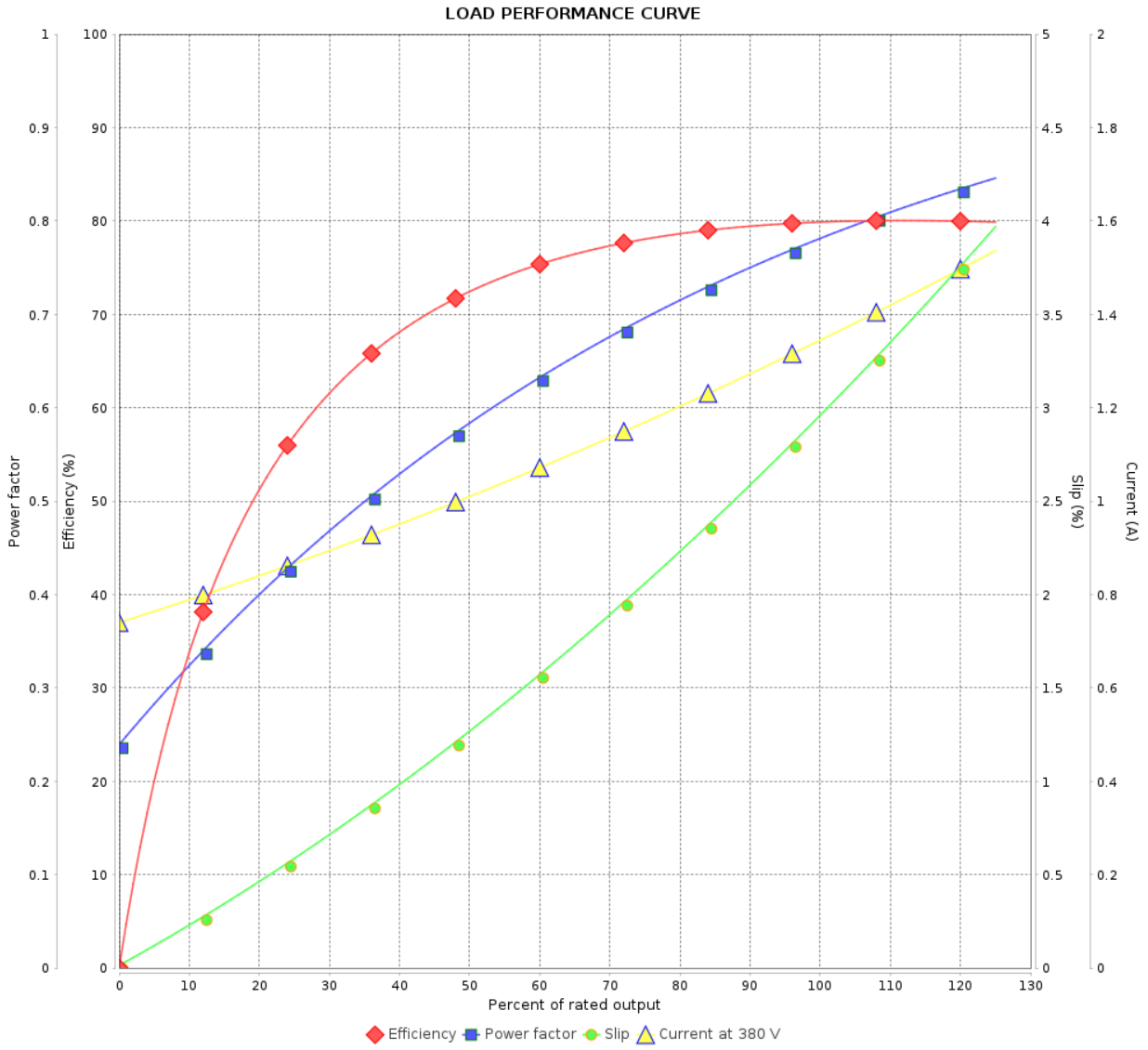
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12739547



Performance	: 380 V 50 Hz 2P IE3

Rated current	: 1.34 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 8.6	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 229 %	Service factor	: 1.25
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 2910 rpm		

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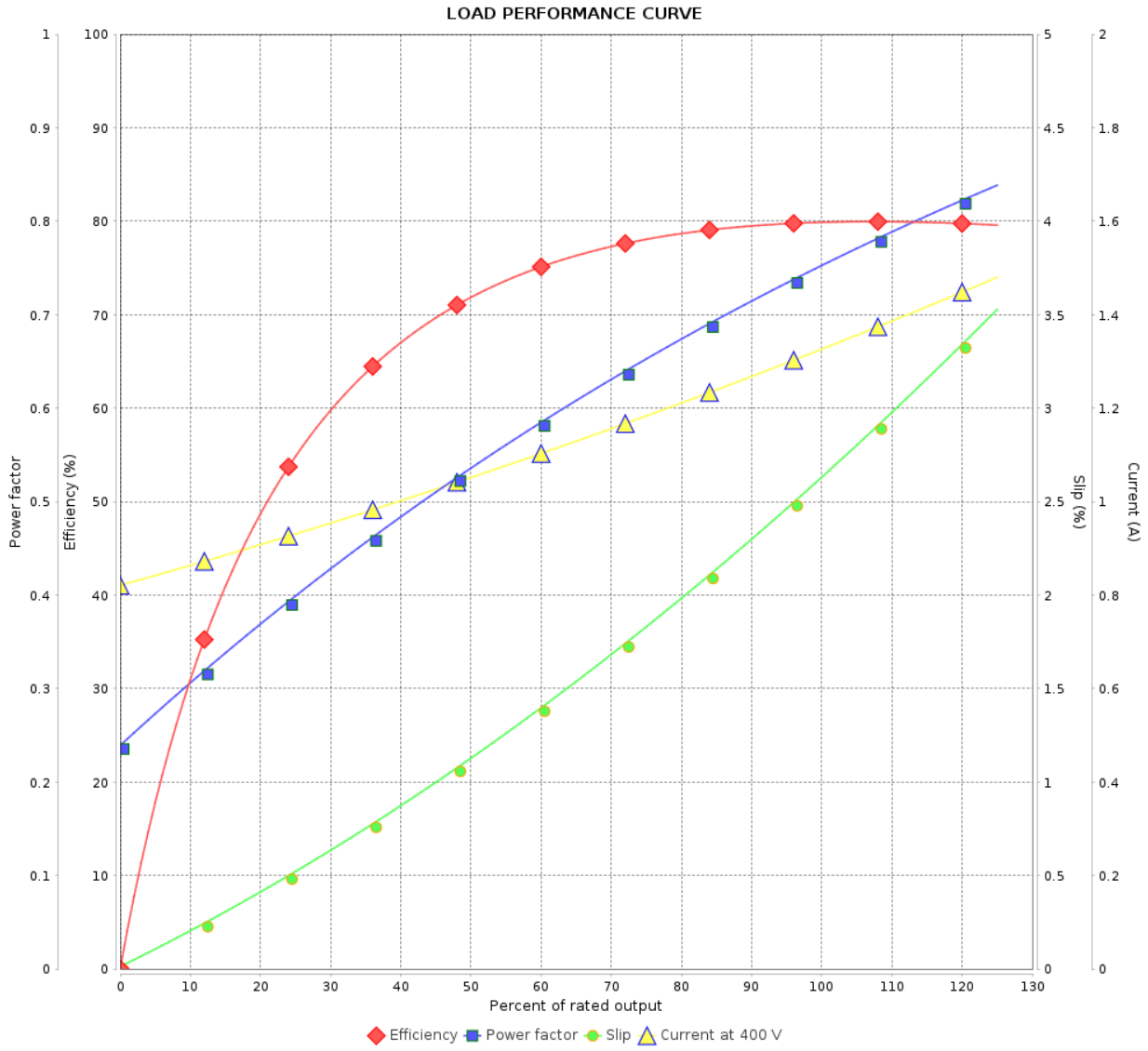
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12739547



Performance	: 400 V 50 Hz 2P IE3		
Rated current	: 1.32 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 9.0	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 250 %	Service factor	: 1.25
Breakdown torque	: 340 %	Temperature rise	: 80 K
Rated speed	: 2920 rpm		

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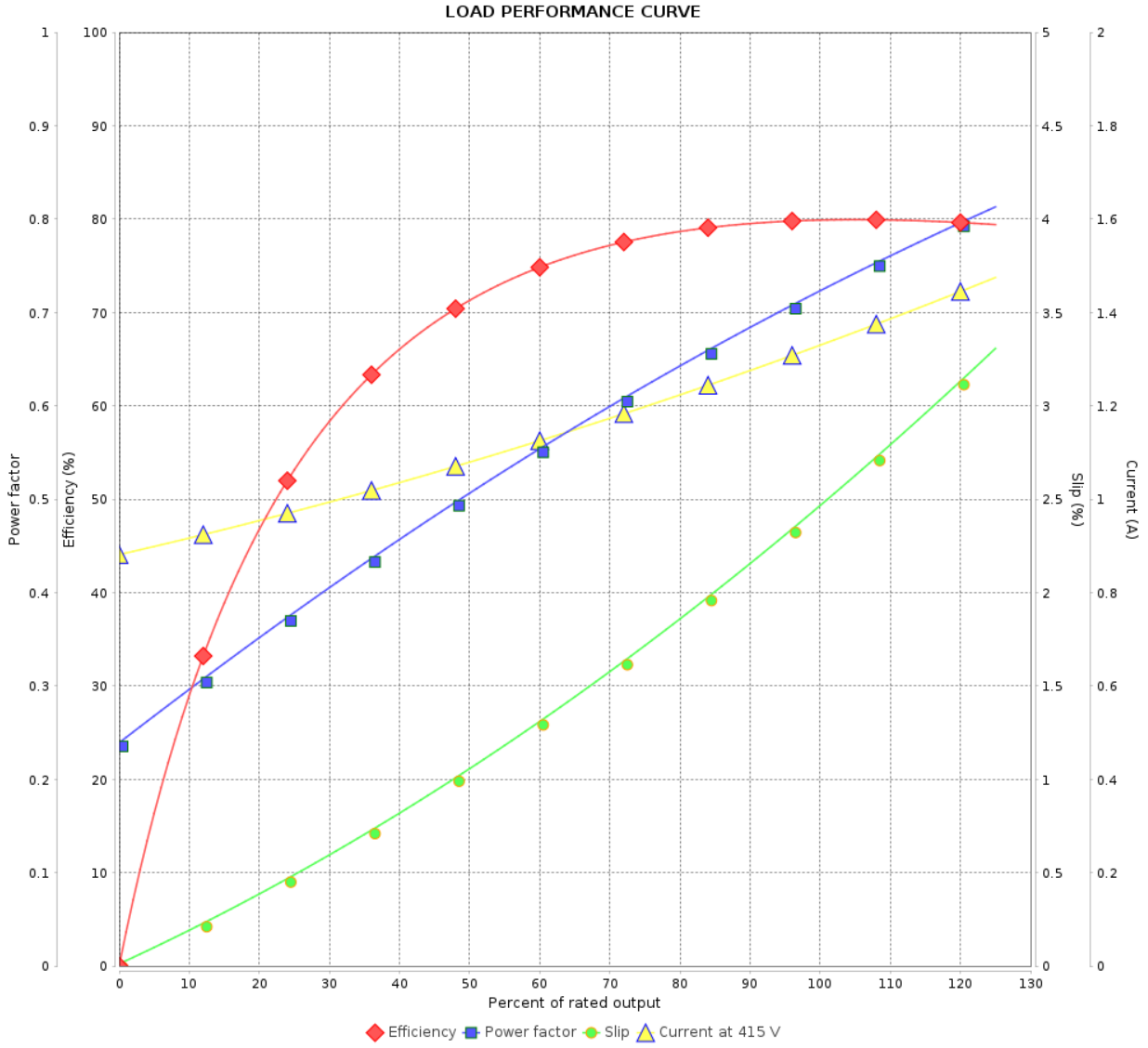
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12739547



Performance	: 415 V 50 Hz 2P IE3

Rated current	: 1.33 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 9.4	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.25
Breakdown torque	: 360 %	Temperature rise	: 80 K
Rated speed	: 2925 rpm		

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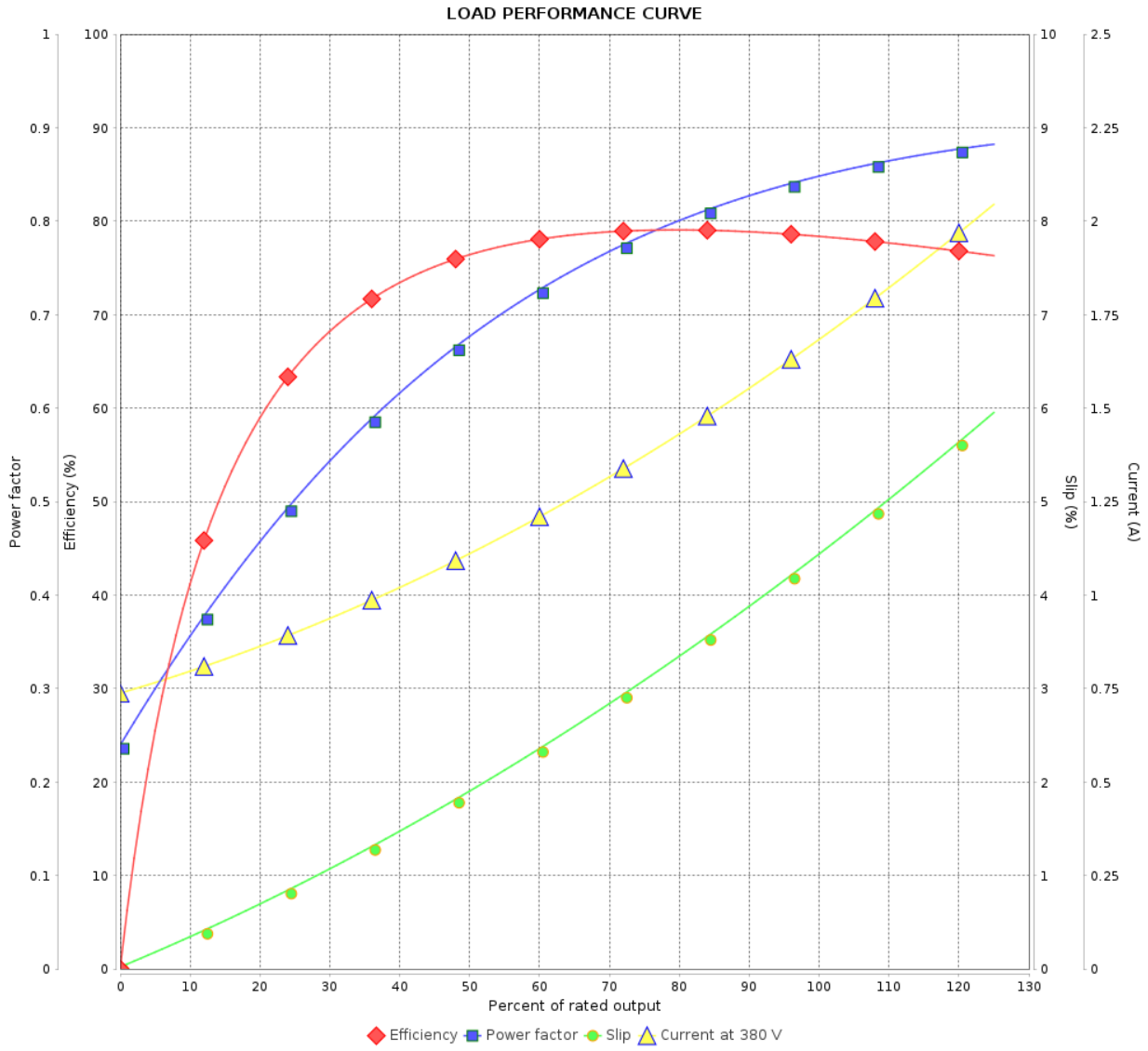
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12739547



Performance	: 380 V 50 Hz 2P IE2		
Rated current	: 1.71 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.25
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 2865 rpm		

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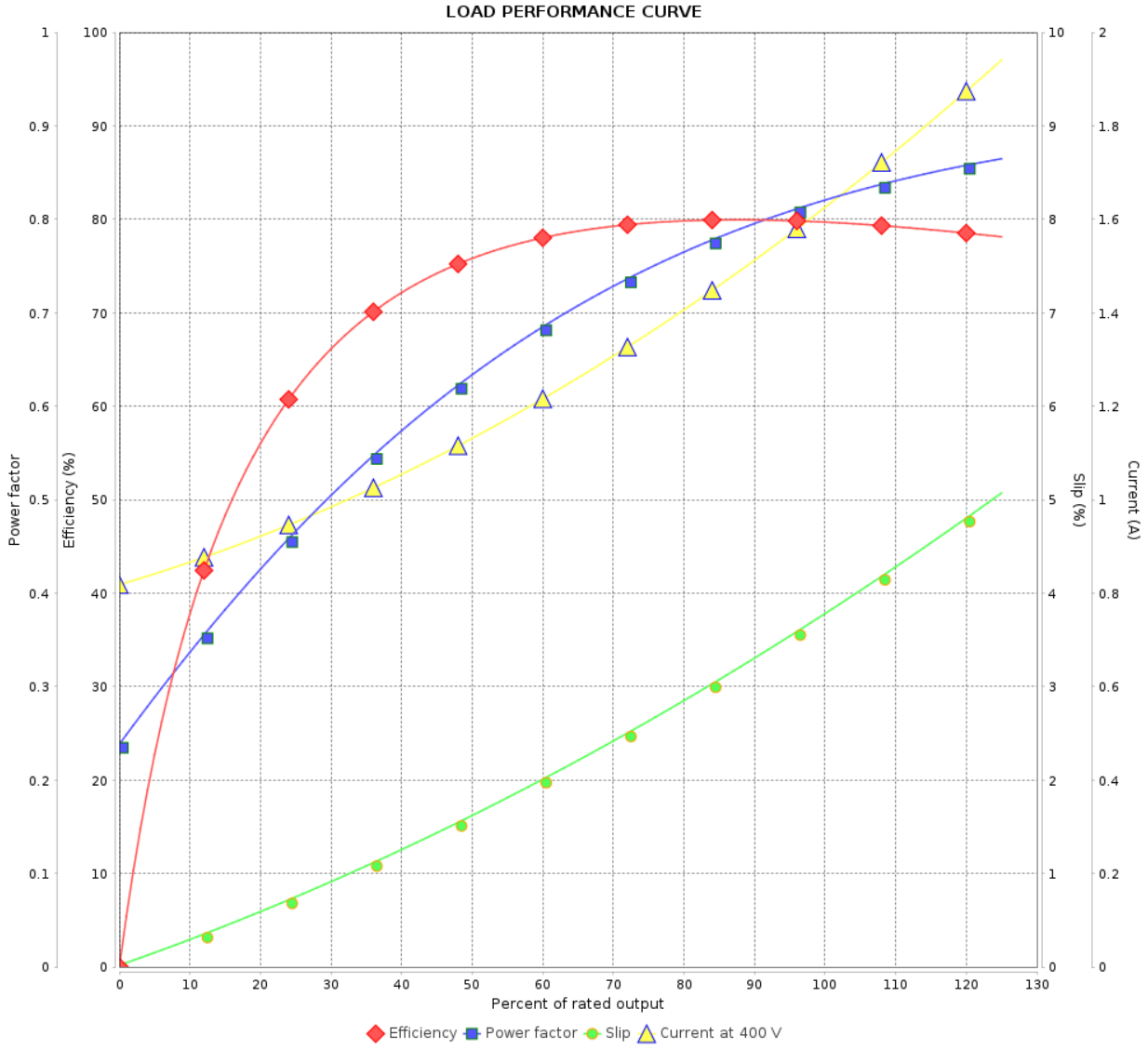
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Three Phase Induction Motor - Squirrel Cage

Customer	:

Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12739547



Performance	: 400 V 50 Hz 2P IE2

Rated current	: 1.65 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 7.2	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.25
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 2885 rpm		

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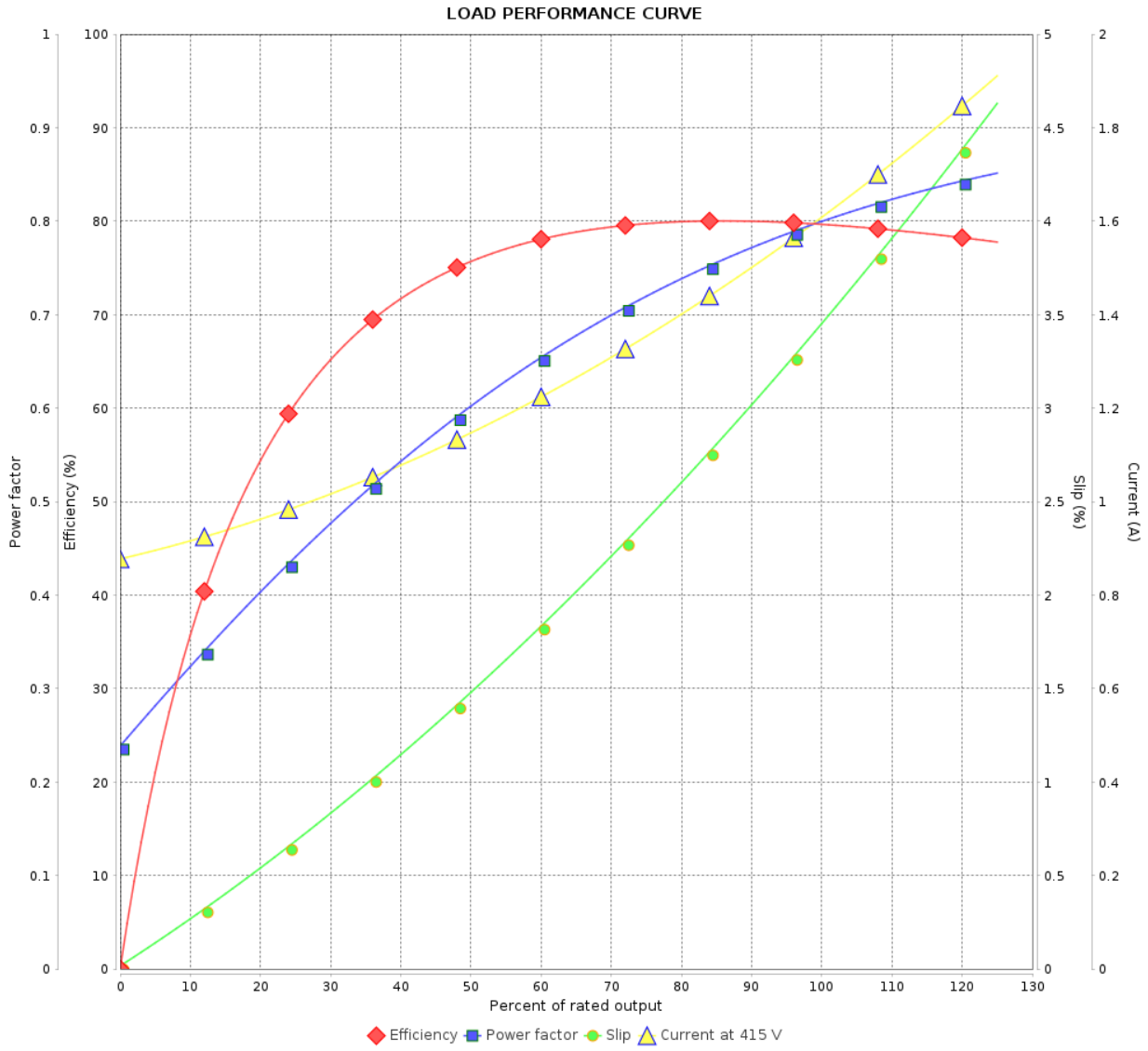
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12739547



Performance	: 415 V 50 Hz 2P IE2		
Rated current	: 1.63 A	Moment of inertia (J)	: 0.0014 kgm²
LRC	: 7.7	Duty cycle	: Cont.(S1)
Rated torque	: 0 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.25
Breakdown torque	: 270 %	Temperature rise	: 80 K
Rated speed	: 2895 rpm		

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