

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 12717665

Frame : 213/5T	Cooling method : IC411 - TEFC
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 : 67.5 kg
Protection degree : IP55	Moment of inertia (J) : 0.0753 kgm ²
Design : B	

Output [HP]	2	2	2	2
Poles	8	8	8	8
Frequency [Hz]	60	50	50	50
Rated voltage [V]	230/460	380	400	415
Rated current [A]	6.78/3.39	3.91	3.80	3.78
L. R. Amperes [A]	46.8/23.4	23.5	24.7	27.2
LRC [A]	6.9x(Code L)	6.0x(Code J)	6.5x(Code K)	7.2x(Code L)
No load current [A]	4.60/2.30	2.30	2.42	2.54
Rated speed [RPM]	875	715	720	725
Slip [%]	2.78	4.67	4.00	3.33
Rated torque [kgfm]	1	2	2	2
Locked rotor torque [%]	220	170	210	240
Breakdown torque [%]	290	210	250	280
Service factor	1.25	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	70s (cold) 39s (hot)	70s (cold) 39s (hot)	70s (cold) 39s (hot)	70s (cold) 39s (hot)
Noise level ²	52.0 dB(A)	48.0 dB(A)	48.0 dB(A)	48.0 dB(A)
Efficiency (%)	25%			
	50%	82.5	81.5	81.5
	75%	84.0	82.0	82.5
	100%	85.5	82.0	82.5
Power Factor	25%			
	50%	0.45	0.52	0.49
	75%	0.55	0.62	0.59
	100%	0.65	0.71	0.69

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

Losses (%)	P1 (0,9;1,0)	16.1	20.8	20.1	20.1
	P2 (0,5;1,0)	13.5	17.5	16.9	16.9
	P3 (0,25;1,0)	13.2	17.1	16.5	16.5
	P4 (0,9;0,5)	9.6	12.4	12.0	12.0
	P5 (0,5;0,5)	7.0	9.0	8.7	8.7
	P6 (0,5;0,25)	5.6	7.2	7.0	7.0
	P7 (0,25;0,25)	4.4	5.7	5.5	5.5

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type :	6308 ZZ	6207 ZZ	Max. traction : 68 kgf
Sealing :	V'Ring	V'Ring	Max. compression : 139 kgf
Lubrication interval :	-	-	
Lubricant amount :	-	-	
Lubricant type :	00088		

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.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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Revision

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Customer :

Notes
USABLE @208V 7.49A SF 1.15 SFA 8.62A

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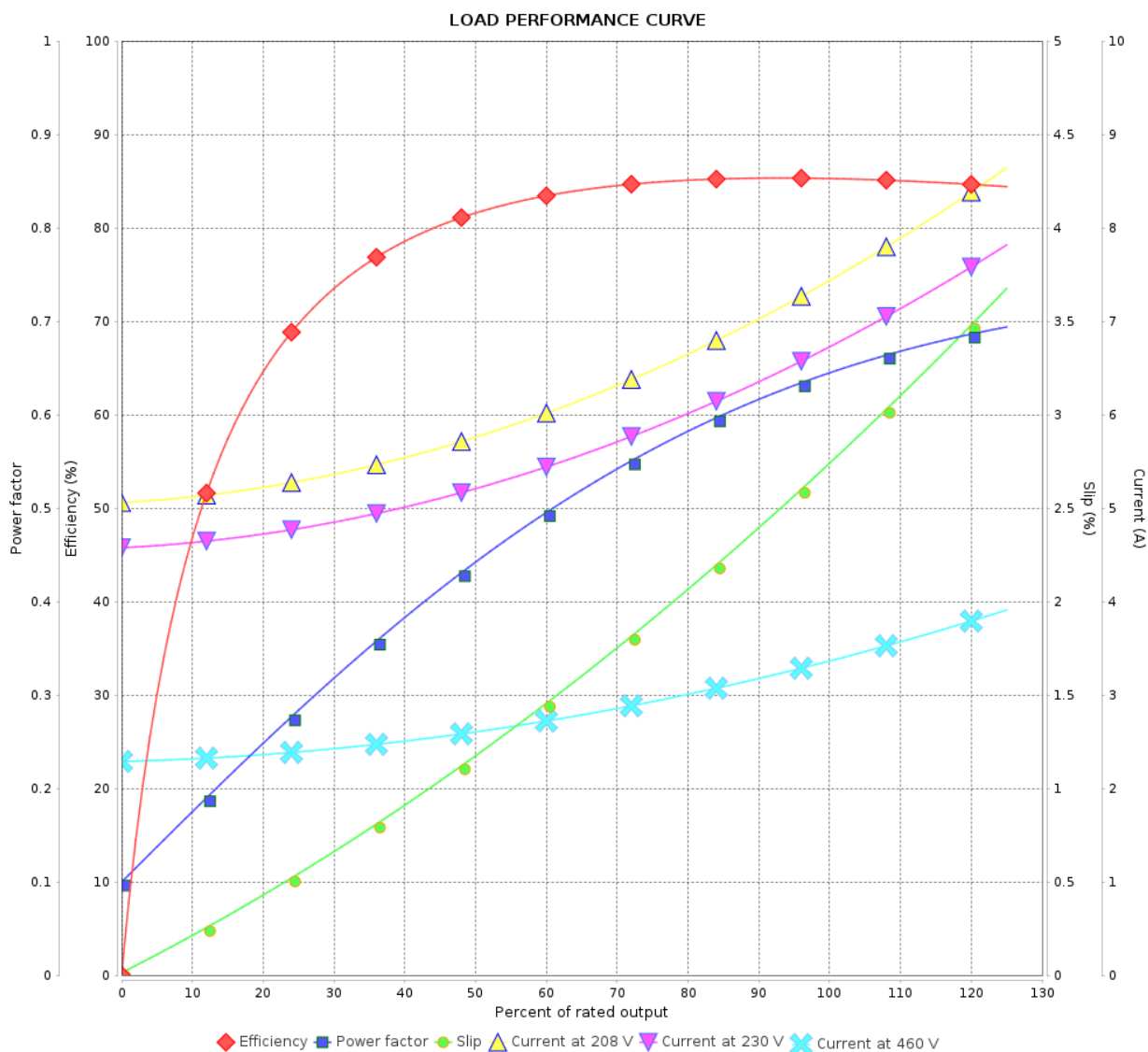
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12717665



Performance : 230/460 V 60 Hz 8P

Rated current : 6.78/3.39 A
LRC : 6.9
Rated torque : 1 kgfm
Locked rotor torque : 220 %
Breakdown torque : 290 %
Rated speed : 875 rpm

Moment of inertia (J) : 0.0753 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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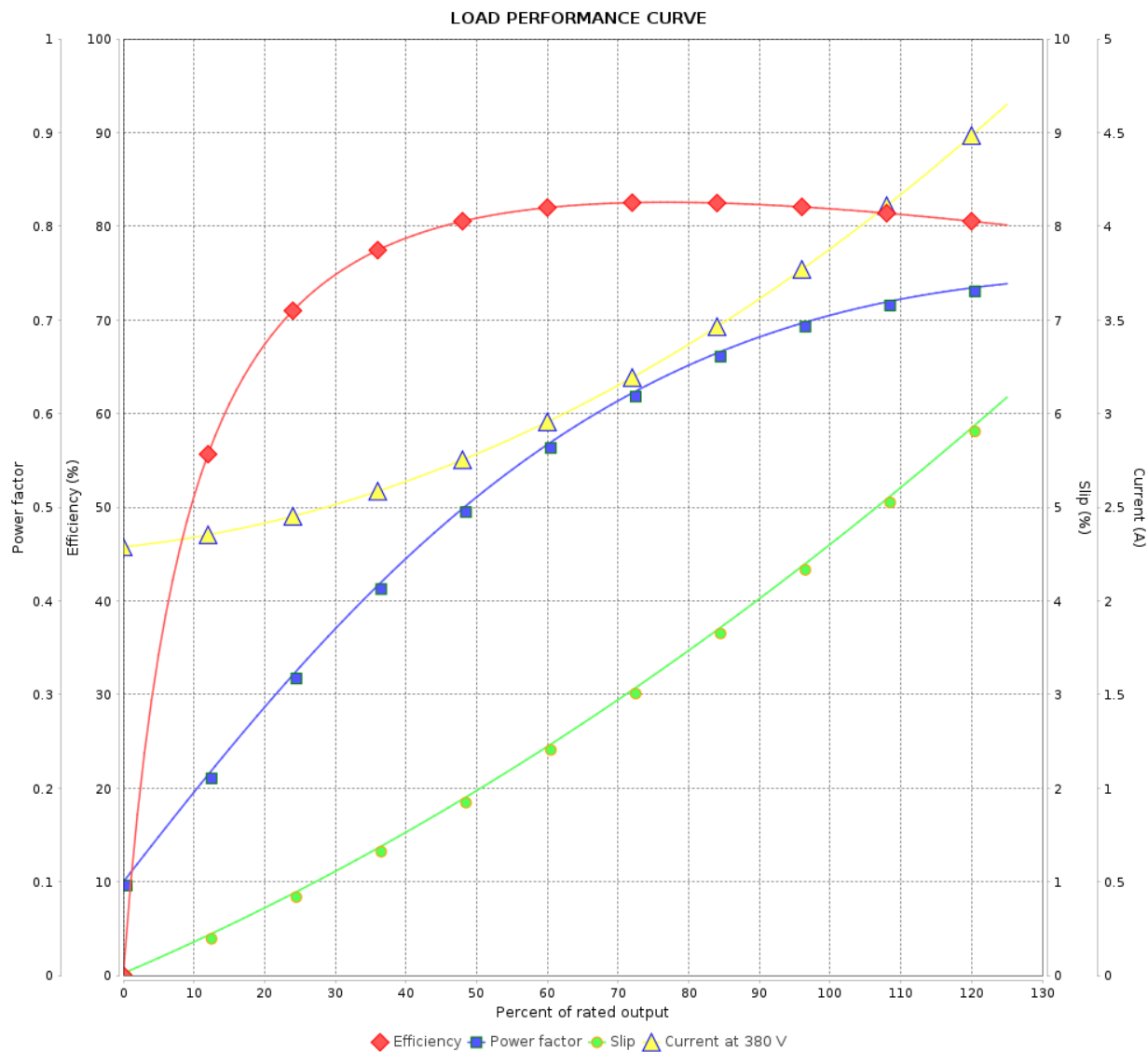
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 380 V 50 Hz 8P IE3

Rated current : 3.91 A
LRC : 6.0
Rated torque : 2 kgfm
Locked rotor torque : 170 %
Breakdown torque : 210 %
Rated speed : 715 rpm

Moment of inertia (J) : 0.0753 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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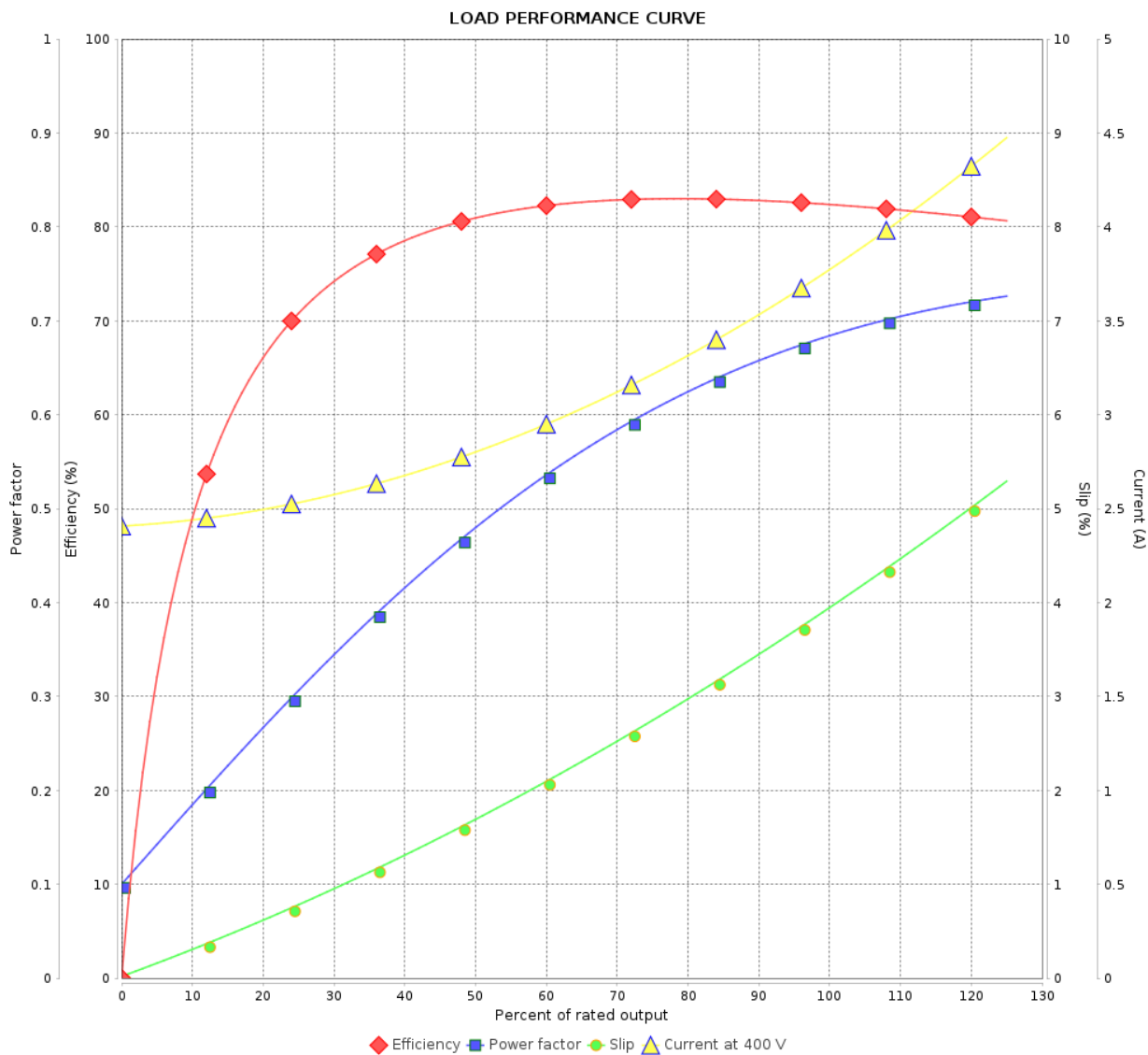
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 12717665



Performance : 400 V 50 Hz 8P IE3

Rated current	: 3.80 A	Moment of inertia (J)	: 0.0753 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 2 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 720 rpm	Design	: B

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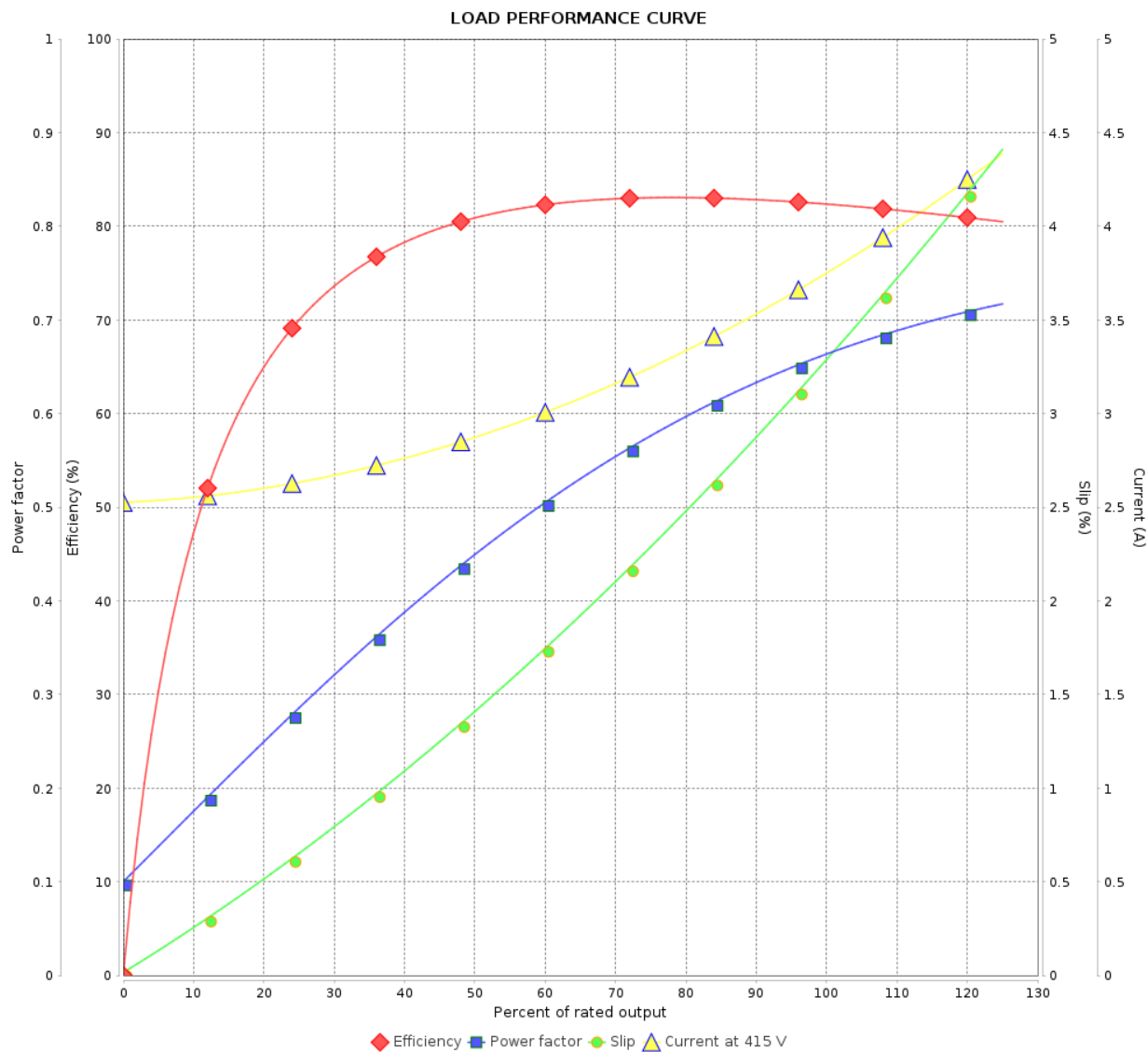
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Customer :

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Performance : 415 V 50 Hz 8P IE3

Rated current : 3.78 A
LRC : 7.2
Rated torque : 2 kgfm
Locked rotor torque : 240 %
Breakdown torque : 280 %
Rated speed : 725 rpm

Moment of inertia (J) : 0.0753 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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