

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 15671900

Frame : 447/9T	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 : 1385 kg
Protection degree : IP55	Moment of inertia (J) : 6.78 kgm ²
Design : B	

Output [HP]	200	150	150	150
Poles	8	8	8	8
Frequency [Hz]	60	50	50	50
Rated voltage [V]	460	380	400	415
Rated current [A]	254	230	227	228
L. R. Amperes [A]	1626	1495	1612	1687
LRC [A]	6.4x(Code H)	6.5x(Code H)	7.1x(Code J)	7.4x(Code K)
No load current [A]	115	113	125	135
Rated speed [RPM]	890	740	740	745
Slip [%]	1.11	1.33	1.33	0.67
Rated torque [kgfm]	163	147	147	146
Locked rotor torque [%]	200	210	240	270
Breakdown torque [%]	220	240	270	300
Service factor	1.15	1.15	1.15	1.15
Temperature rise	80 K	80 K	80 K	80 K
Locked rotor time	23s (cold) 13s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)	21s (cold) 12s (hot)
Noise level ²	66.0 dB(A)			
Efficiency (%)	25%			
	50%	94.5	94.1	93.6
	75%	95.0	94.5	94.5
	100%	95.0	94.5	94.5
Power Factor	25%			
	50%	0.62	0.59	0.54
	75%	0.73	0.71	0.67
	100%	0.78	0.77	0.74

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

Losses (%)	P1 (0,9;1,0)	5.4	5.4	5.4	5.4
	P2 (0,5;1,0)	4.3	4.3	4.3	4.3
	P3 (0,25;1,0)	3.8	3.8	3.8	3.8
	P4 (0,9;0,5)	2.9	2.9	2.9	2.9
	P5 (0,5;0,5)	2.0	2.0	2.0	2.0
	P6 (0,5;0,25)	1.5	1.5	1.5	1.5
	P7 (0,25;0,25)	1.0	1.0	1.0	1.0

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6322 C3	6319 C3	Max. traction : 3142 kgf
Sealing	: WSeal	WSeal	Max. compression : 4527 kgf
Lubrication interval	: 14000 h	17000 h	
Lubricant amount	: 60 g	45 g	
Lubricant type	: Mobil Polyrex EM		

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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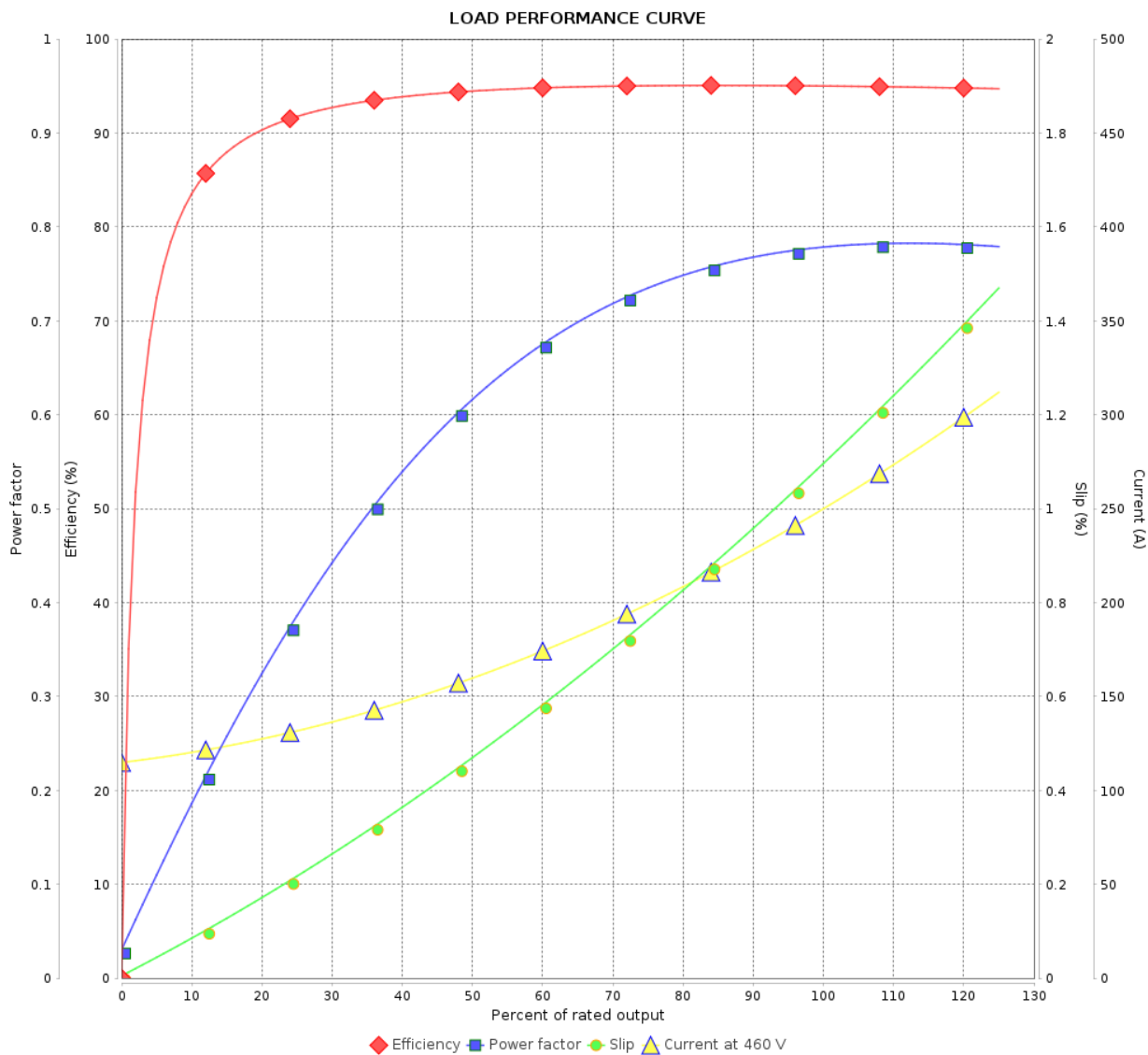
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 15671900



Performance : 460 V 60 Hz 8P

Rated current : 254 A
LRC : 6.4
Rated torque : 163 kgfm
Locked rotor torque : 200 %
Breakdown torque : 220 %
Rated speed : 890 rpm

Moment of inertia (J) : 6.78 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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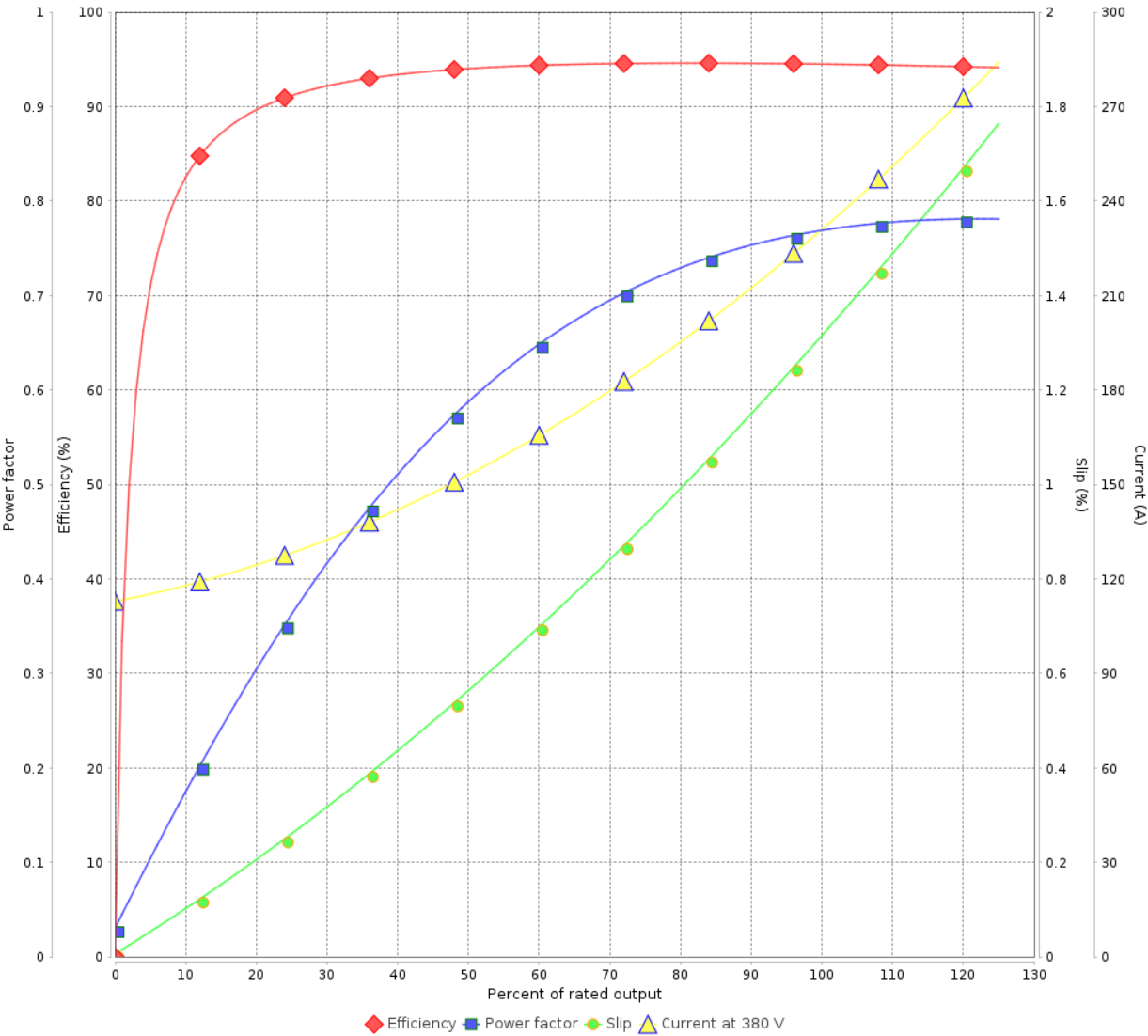
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 380 V 50 Hz 8P IE3

Rated current	: 230 A	Moment of inertia (J)	: 6.78 kgm ²
LRC	: 6.5	Duty cycle	: Cont.(S1)
Rated torque	: 147 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 240 %	Temperature rise	: 80 K
Rated speed	: 740 rpm	Design	: B

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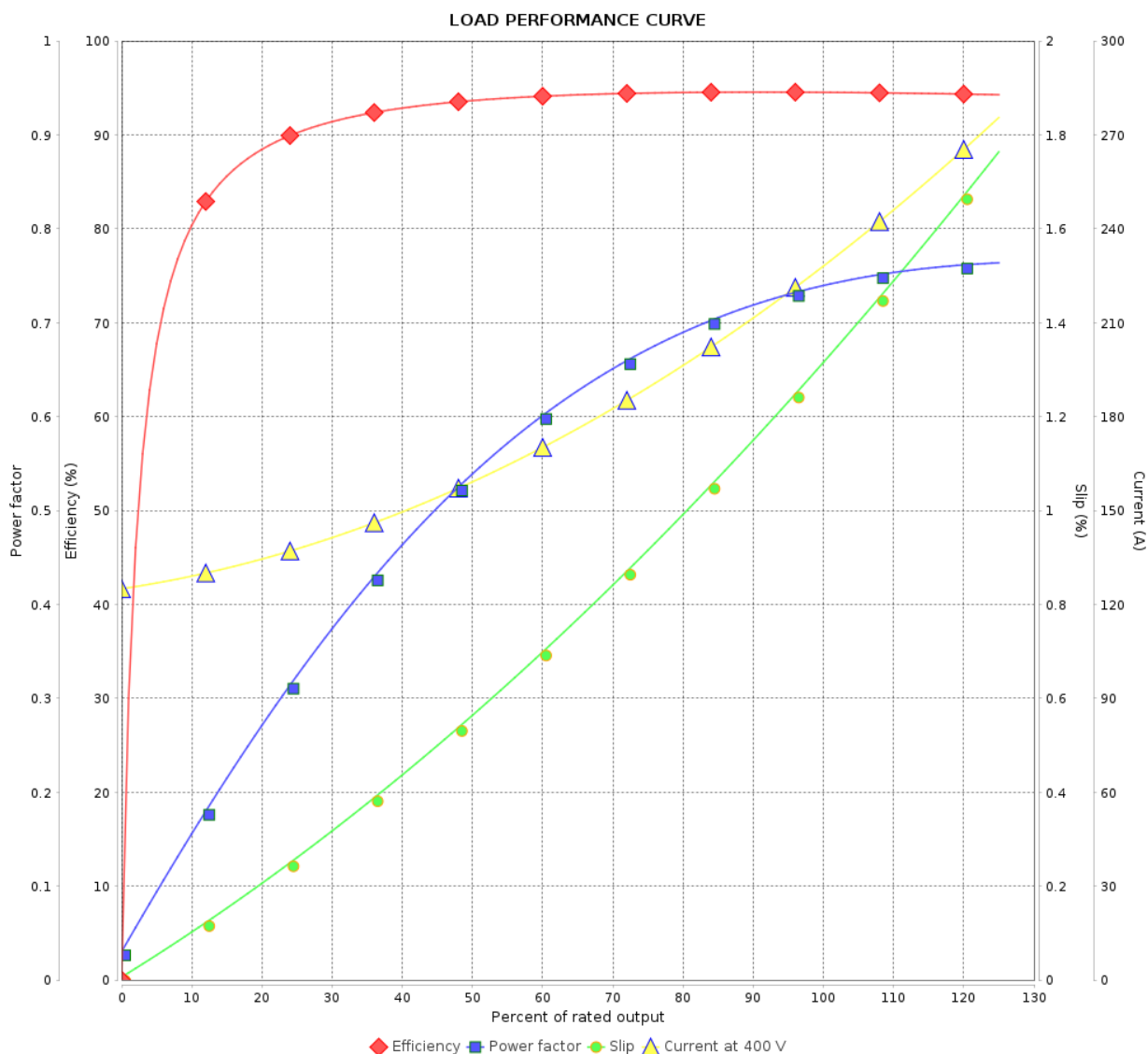
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase

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Performance : 400 V 50 Hz 8P IE3

Rated current : 227 A
LRC : 7.1
Rated torque : 147 kgfm
Locked rotor torque : 240 %
Breakdown torque : 270 %
Rated speed : 740 rpm

Moment of inertia (J) : 6.78 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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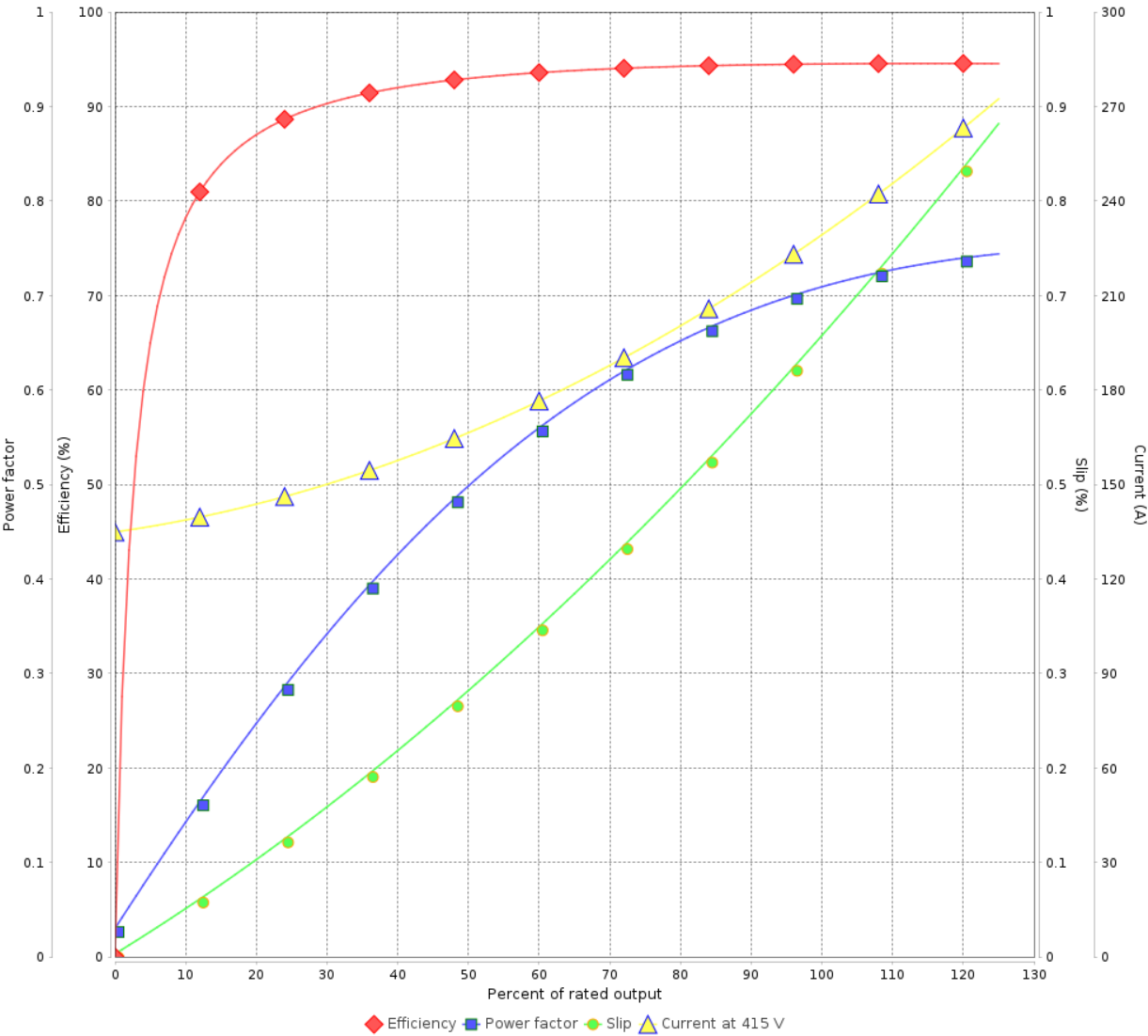
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 415 V 50 Hz 8P IE3

Rated current	: 228 A	Moment of inertia (J)	: 6.78 kgm ²
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 146 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.15
Breakdown torque	: 300 %	Temperature rise	: 80 K
Rated speed	: 745 rpm	Design	: B

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