

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :					
Product line : W22 P Base NEMA Premium Efficiency Three-Phase		Product code :		13128967	
Frame : 213HP Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP55 Design : B		Cooling method : IC411 - TEFC Mounting : W-6 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ² : 76.5 kg Moment of inertia (J) : 0.0566 kgm ²			
Output [HP]	7.5	7.5	7.5	7.5	7.5
Poles	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50
Rated voltage [V]	230/460	380	400	415	415
Rated current [A]	18.4/9.18	11.0	10.6	10.3	10.3
L. R. Amperes [A]	130/65.2	61.6	65.7	69.0	69.0
LRC [A]	7.1x(Code H)	5.6x(Code F)	6.2x(Code G)	6.7x(Code H)	6.7x(Code H)
No load current [A]	8.40/4.20	4.10	4.40	4.70	4.70
Rated speed [RPM]	1765	1455	1460	1465	1465
Slip [%]	1.94	3.00	2.67	2.33	2.33
Rated torque [kgfm]	3.08	3.74	3.73	3.72	3.72
Locked rotor torque [%]	220	170	190	210	210
Breakdown torque [%]	310	240	270	290	290
Service factor	1.25	1.25	1.25	1.25	1.25
Temperature rise	80 K	80 K	80 K	80 K	80 K
Locked rotor time	36s (cold) 20s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)
Noise level ²	58.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
Efficiency (%)	25%	88.6	89.2	89.2	89.3
	50%	89.5	89.5	89.5	89.5
	75%	91.0	89.5	90.2	90.2
	100%	91.7	89.6	90.2	90.2
Power Factor	25%	0.40	0.47	0.43	0.40
	50%	0.66	0.72	0.69	0.66
	75%	0.76	0.81	0.78	0.76
	100%	0.82	0.85	0.83	0.82
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	8.8	8.8	8.8	8.8
	P2 (0,5;1,0)	7.0	7.0	7.0	7.0
	P3 (0,25;1,0)	6.5	6.5	6.5	6.5
	P4 (0,9;0,5)	4.9	4.9	4.9	4.9
	P5 (0,5;0,5)	3.3	3.3	3.3	3.3
	P6 (0,5;0,25)	2.4	2.4	2.4	2.4
	P7 (0,25;0,25)	1.6	1.6	1.6	1.6
Bearing type : <u>Drive end</u> 6309 ZZ <u>Non drive end</u> 6207 ZZ Sealing : V'Ring V'Ring Lubrication interval : - - Lubricant amount : - - Lubricant type : Mobil Polyrex EM		Foundation loads Max. traction Max. compression			
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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Notes
USABLE @208V 19.9A SF 1.15 SFA 22.9A

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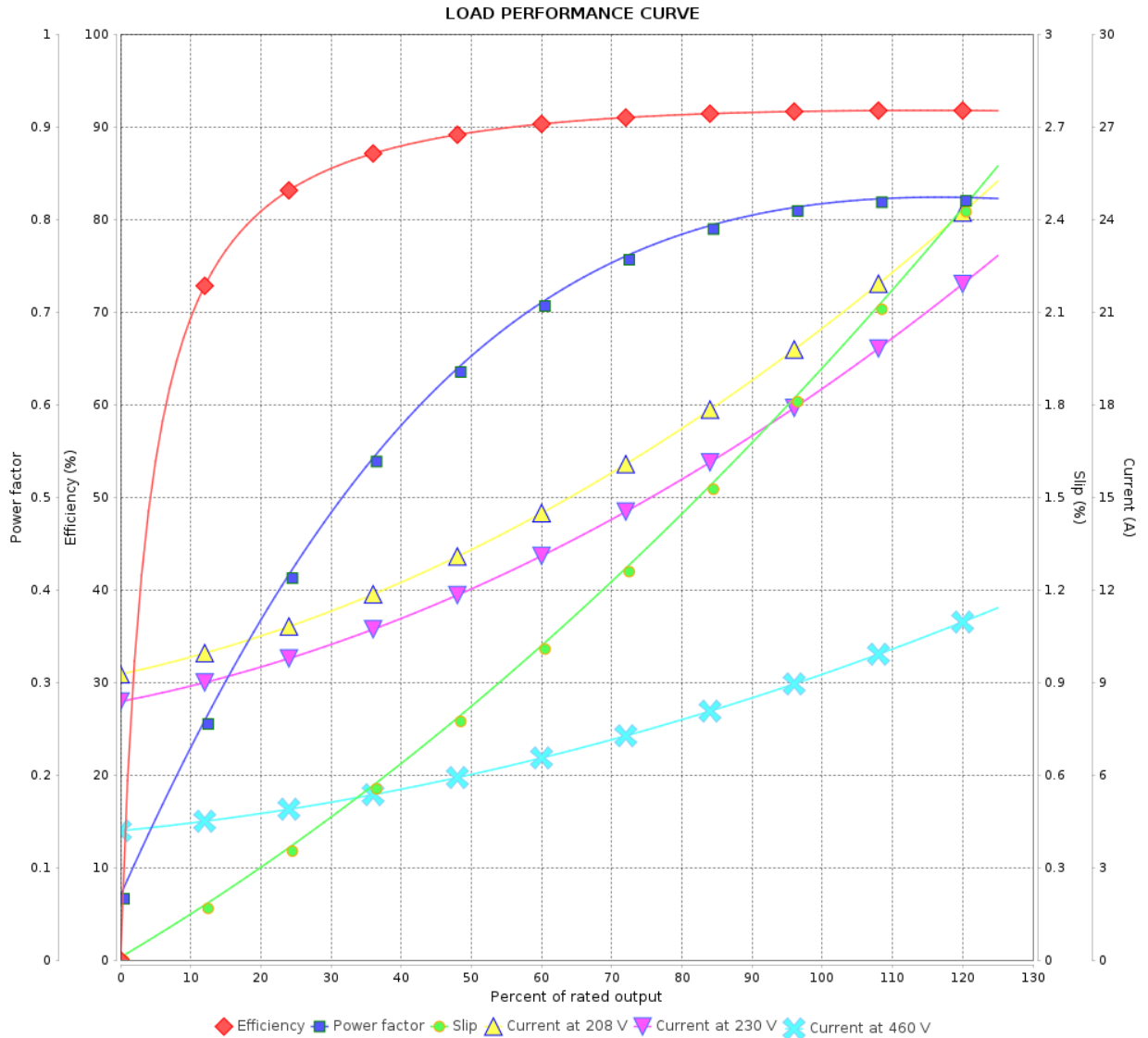
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Performance : 230/460 V 60 Hz 4P

Rated current : 18.4/9.18 A
 LRC : 7.1
 Rated torque : 3.08 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 310 %
 Rated speed : 1765 rpm

Moment of inertia (J) : 0.0566 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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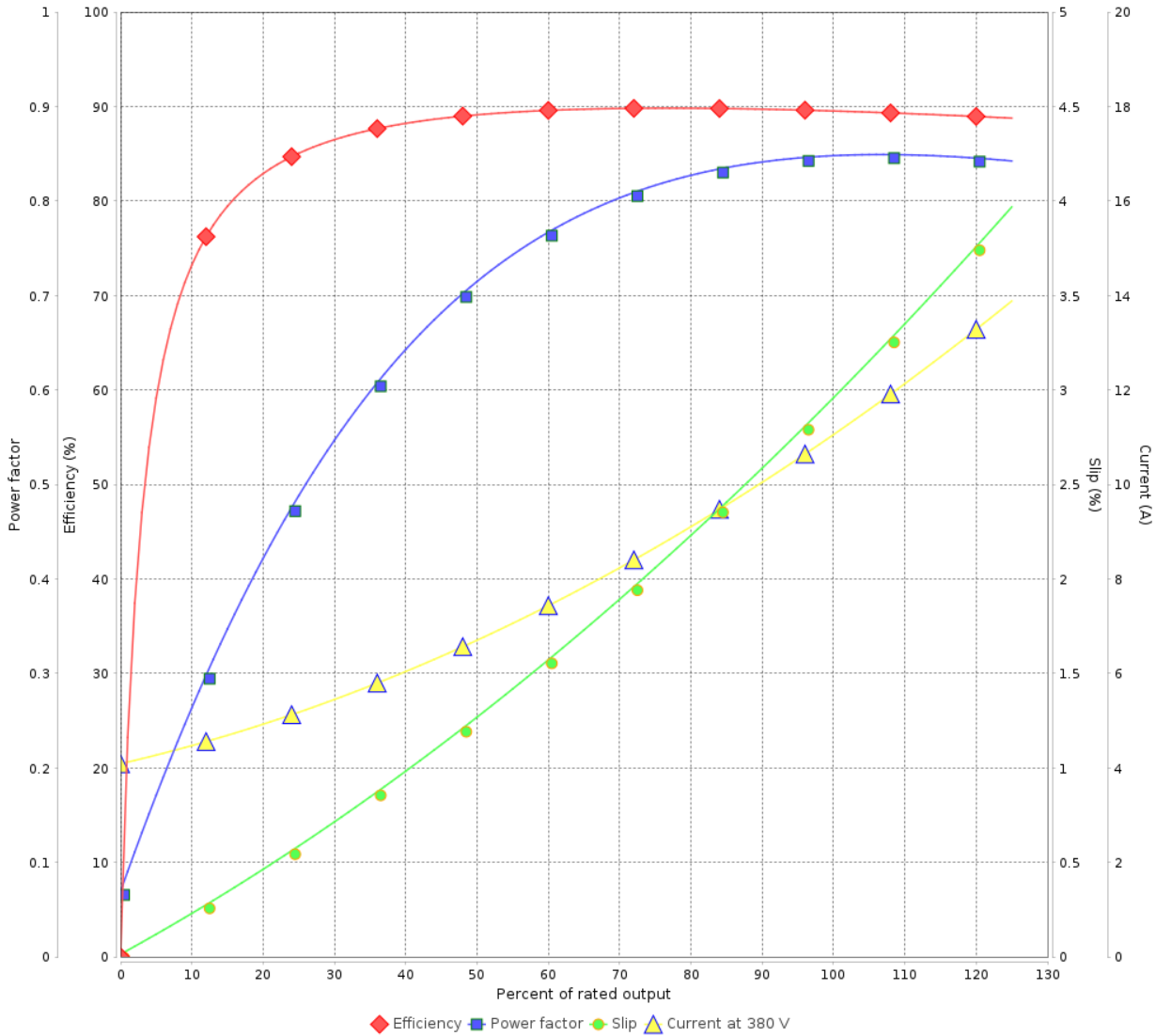


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Performance : 380 V 50 Hz 4P IE3

Rated current : 11.0 A
 LRC : 5.6
 Rated torque : 3.74 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 240 %
 Rated speed : 1455 rpm

Moment of inertia (J) : 0.0566 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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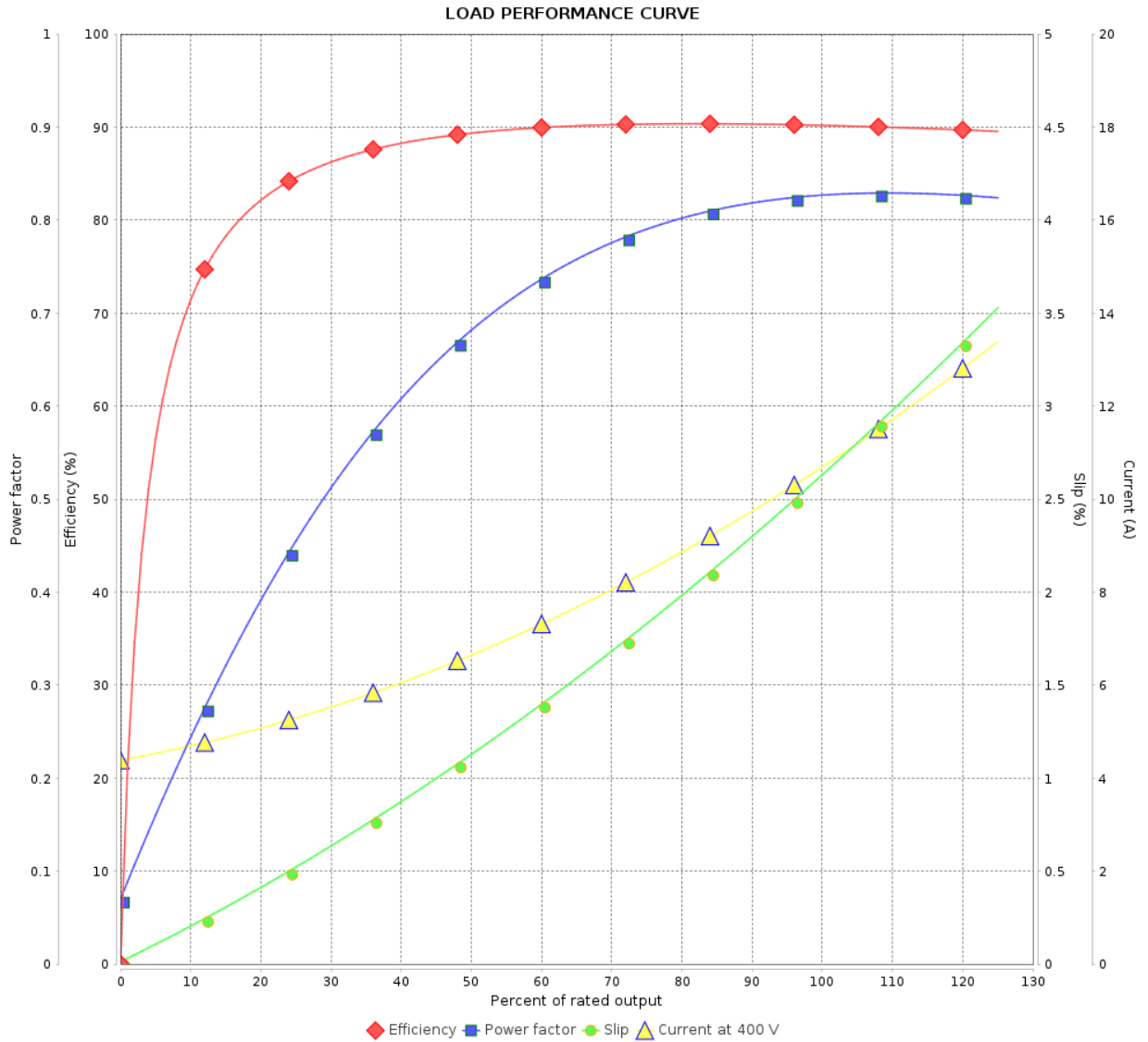
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Customer :

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Performance : 400 V 50 Hz 4P IE3

Rated current : 10.6 A
 LRC : 6.2
 Rated torque : 3.73 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 270 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.0566 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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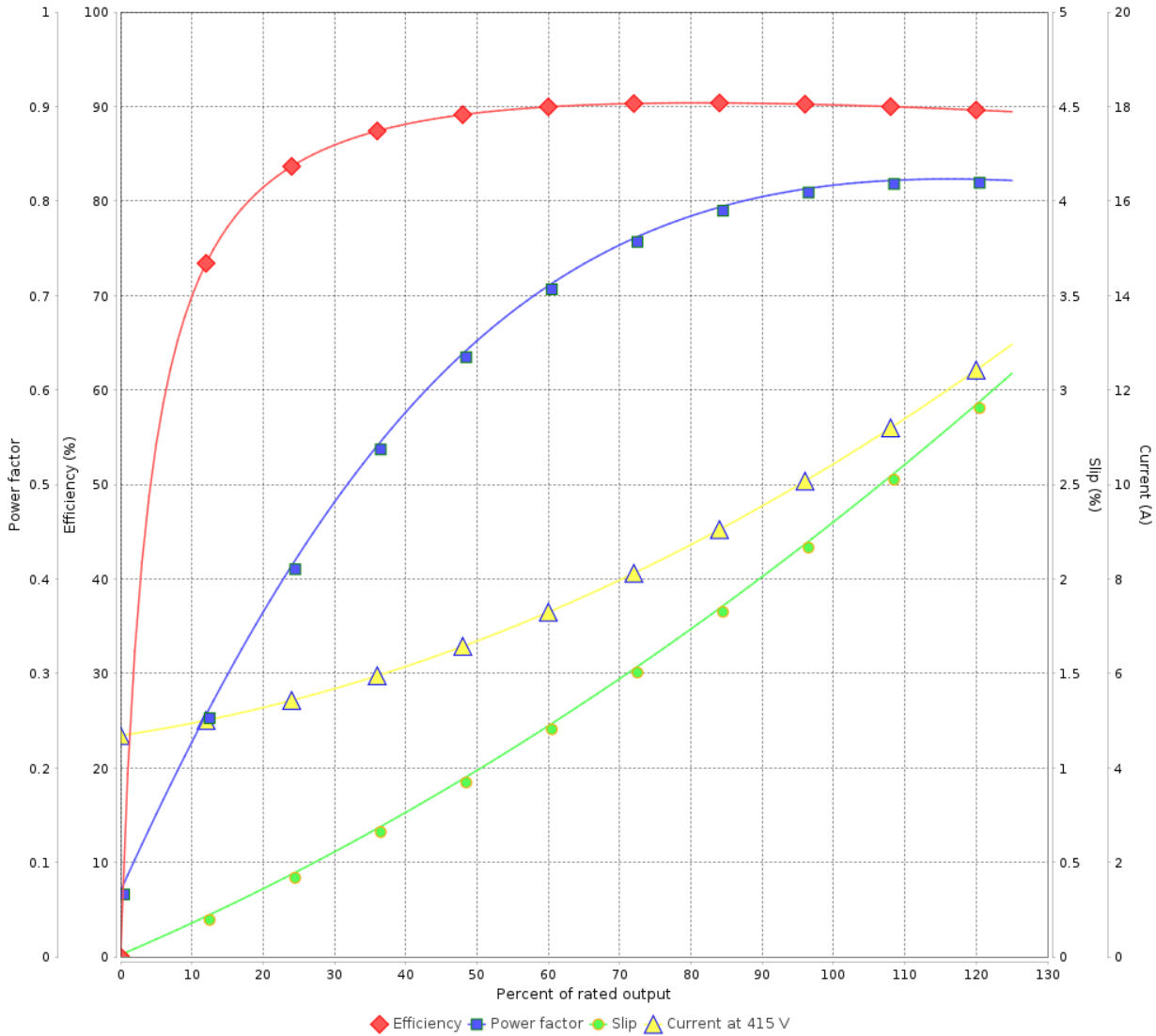


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Performance : 415 V 50 Hz 4P IE3

Rated current : 10.3 A
 LRC : 6.7
 Rated torque : 3.72 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 290 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.0566 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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