

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 15963894			
Frame : 324T Insulation class : F Duty cycle : Cont.(S1) Ambient temperature : -20°C to +40°C Altitude : 1000 m.a.s.l. Protection degree : IP23 Design : B		Cooling method : IC01 - ODP Mounting : F-1 Rotation ¹ : Both (CW and CCW) Starting method : Direct On Line Approx. weight ³ : 204 kg Moment of inertia (J) : 0.2397 kgm ²			
Output [HP]	40	30	30	30	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	95.2/47.6	43.3	42.2	41.7	
L. R. Amperes [A]	590/295	290	283	313	
LRC [A]	6.2x(Code G)	6.7x(Code H)	6.7x(Code H)	7.5x(Code J)	
No load current [A]	37.0/18.5	18.3	20.3	22.1	
Rated speed [RPM]	1775	1475	1480	1480	
Slip [%]	1.39	1.67	1.33	1.33	
Rated torque [kgfm]	16.4	14.8	14.7	14.7	
Locked rotor torque [%]	200	229	260	280	
Breakdown torque [%]	240	270	300	330	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	23s (cold) 13s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	25s (cold) 14s (hot)	
Noise level ²	66.0 dB(A)				
Efficiency (%)	25%				
	50%	93.6	92.6	92.5	
	75%	94.1	93.0	93.0	
	100%	94.1	93.0	93.0	
Power Factor	25%				
	50%	0.70	0.68	0.59	
	75%	0.80	0.78	0.72	
	100%	0.84	0.83	0.79	
Bearing type : <u>Drive end</u> 6312 Z C3 <u>Non drive end</u> 6211 Z C3 Sealing : Without Without Bearing Seal Bearing Seal Lubrication interval : 20000 h 20000 h Lubricant amount : 21 g 11 g Lubricant type : Mobil Polyrex EM		Foundation loads Max. traction Max. compression			
Notes USABLE @208V 105A SF 1.15 SFA 121A					
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. (4) At 100% of full load.		These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.			
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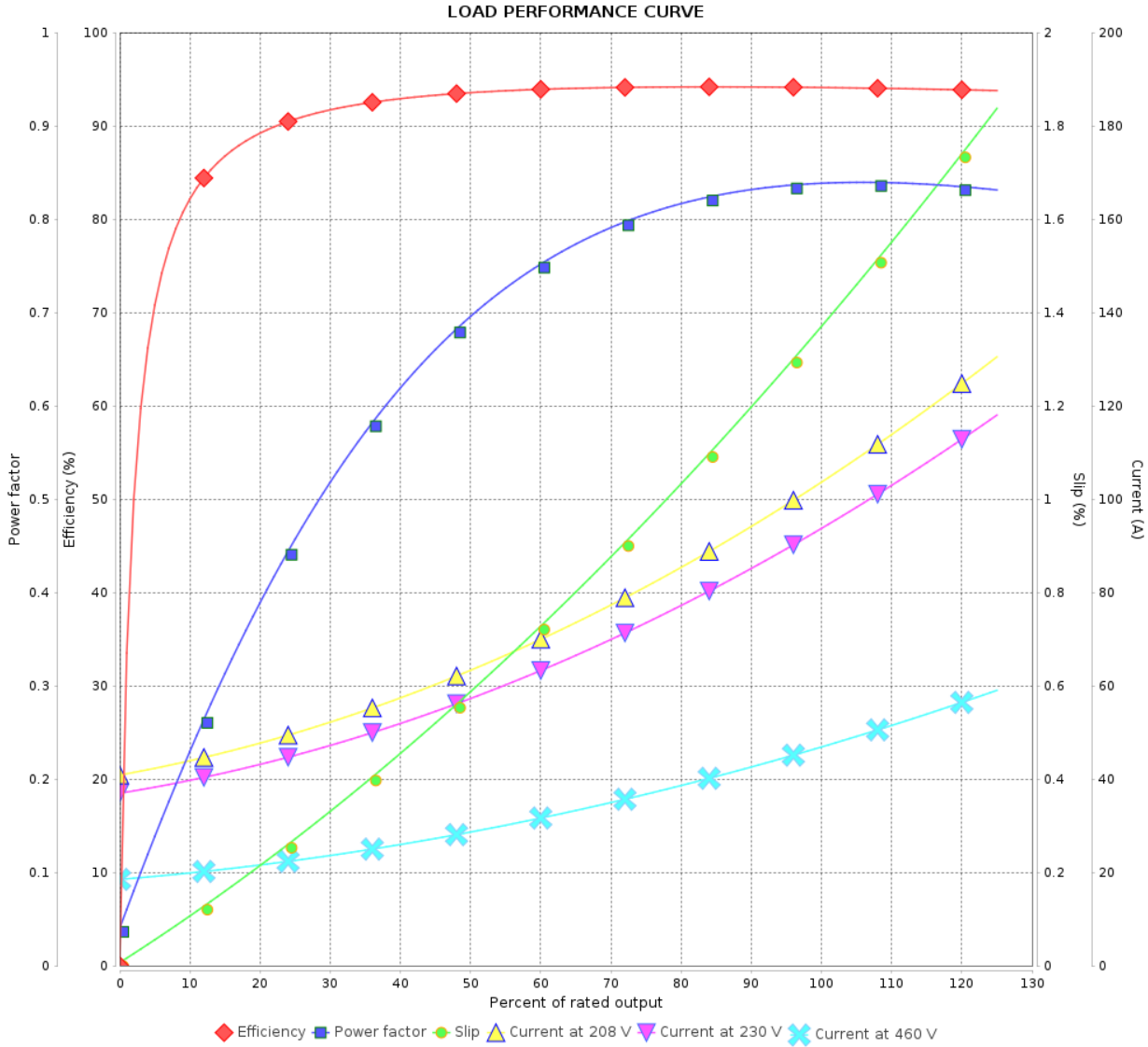
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Performance : 230/460 V 60 Hz 4P

Rated current : 95.2/47.6 A
 LRC : 6.2
 Rated torque : 16.4 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 240 %
 Rated speed : 1775 rpm

Moment of inertia (J) : 0.2397 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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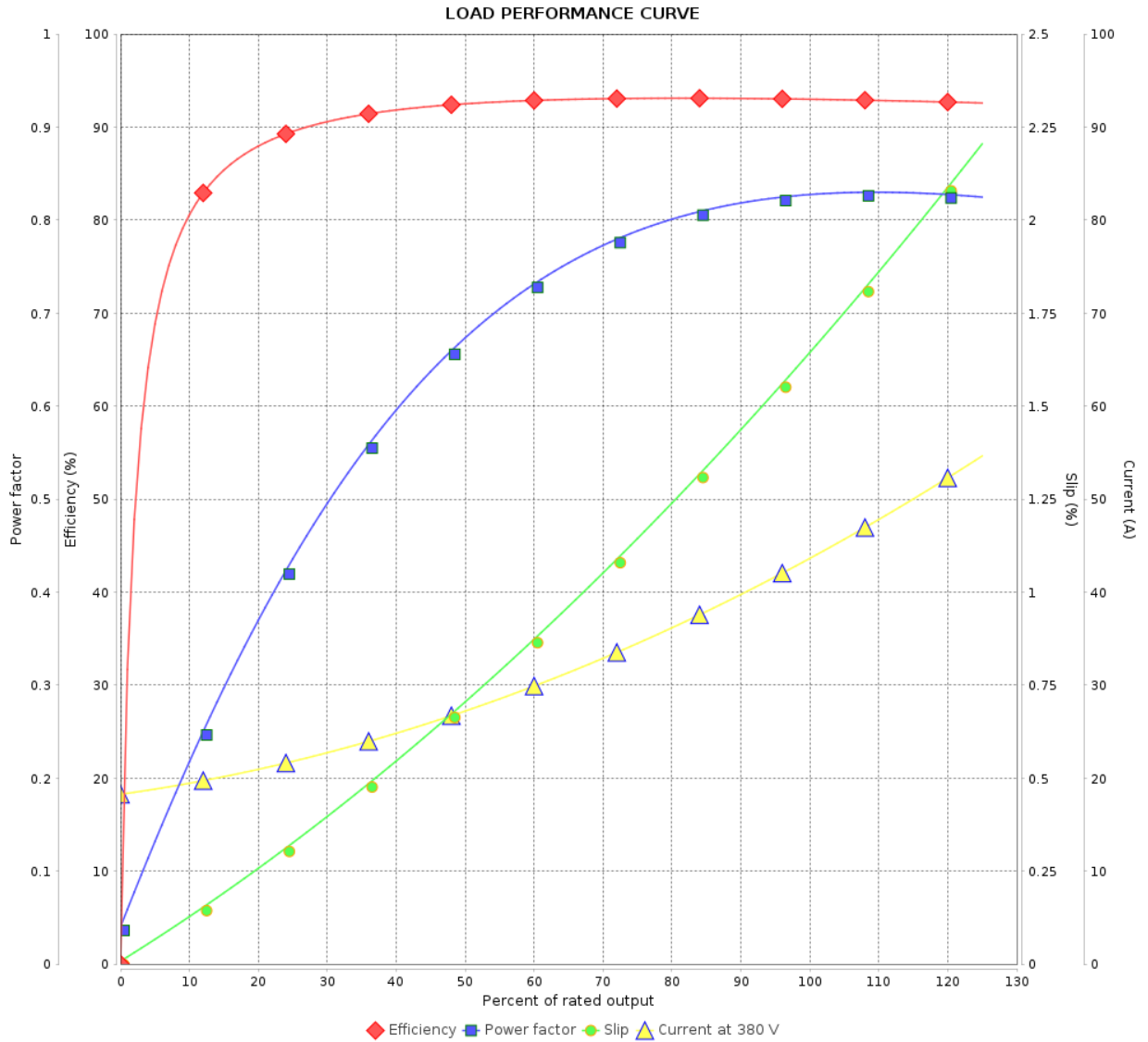
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 380 V 50 Hz 4P IE3

Rated current : 43.3 A
 LRC : 6.7
 Rated torque : 14.8 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 270 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.2397 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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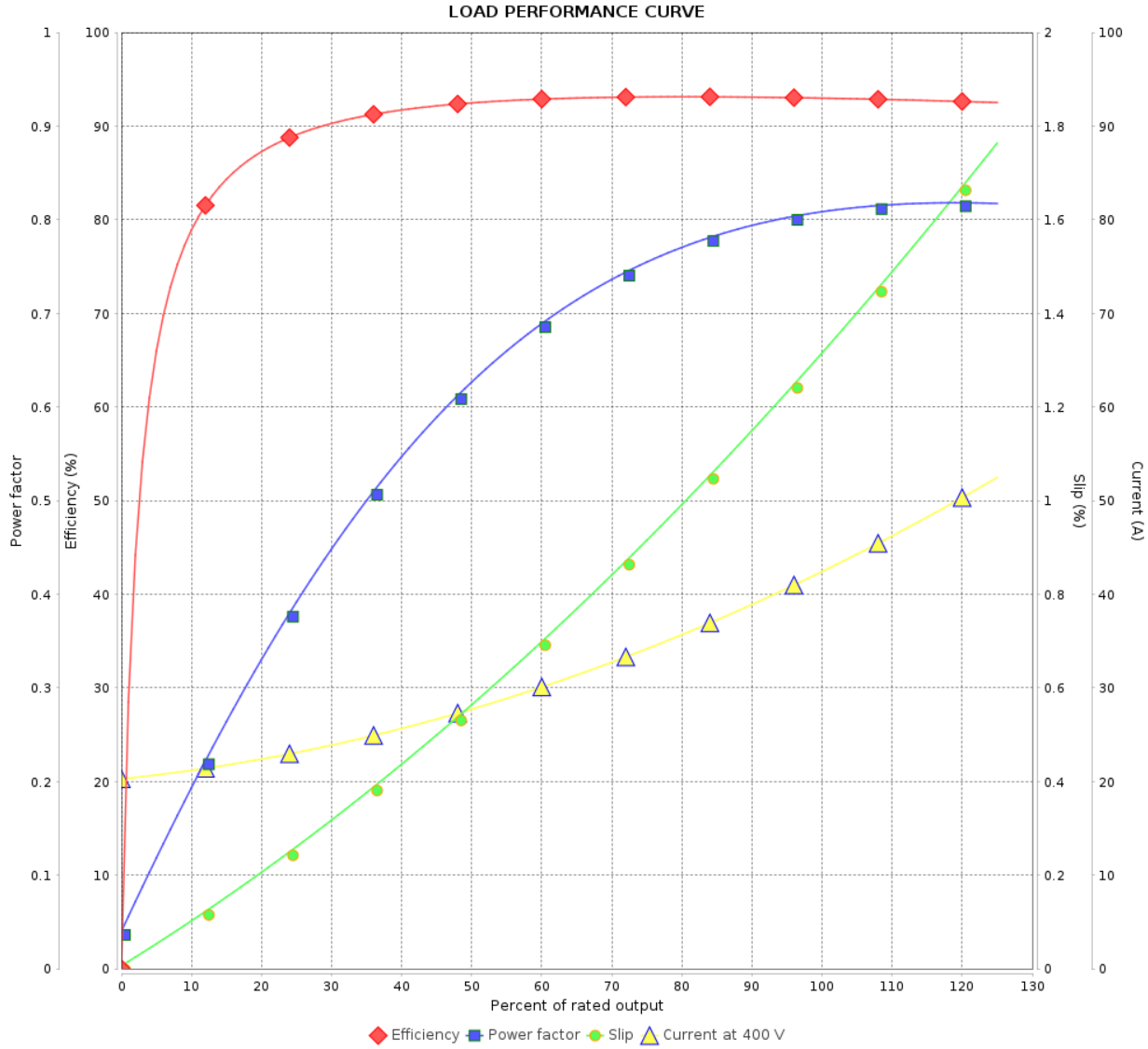
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 400 V 50 Hz 4P IE3

Rated current : 42.2 A
 LRC : 6.7
 Rated torque : 14.7 kgfm
 Locked rotor torque : 260 %
 Breakdown torque : 300 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.2397 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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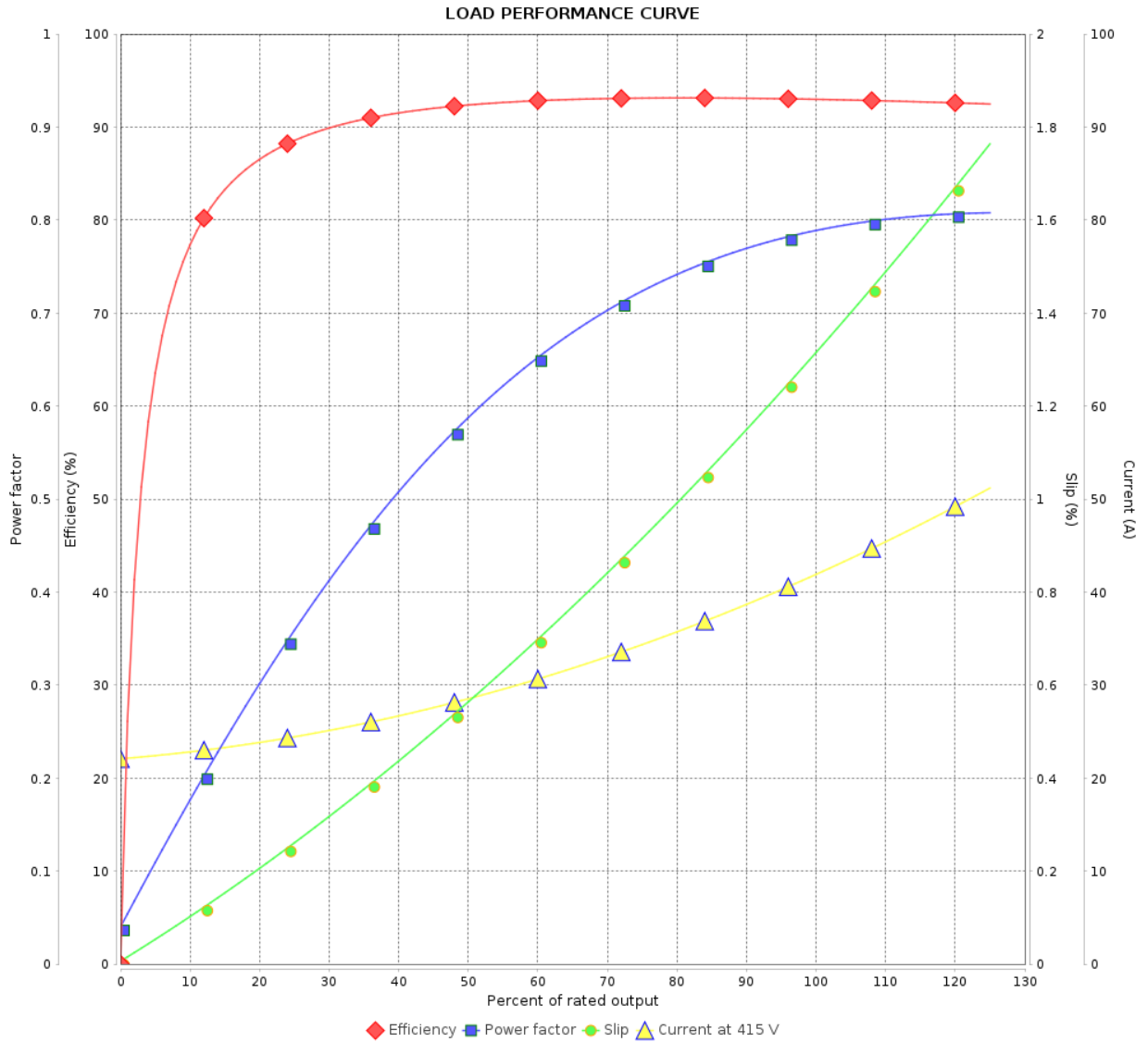
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 415 V 50 Hz 4P IE3

Rated current : 41.7 A
 LRC : 7.5
 Rated torque : 14.7 kgfm
 Locked rotor torque : 280 %
 Breakdown torque : 330 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 0.2397 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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