

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14892993			
Frame : 444/5T	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 : 627 kg	Moment of inertia (J) : 2.66 kgm ²	
Output [HP]	125	100	100	100	
Poles	6	6	6	6	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	308/154	152	151	151	
L. R. Amperes [A]	1940/970	1003	1042	1042	
LRC [A]	6.3x(Code G)	6.6x(Code H)	6.9x(Code J)	6.9x(Code J)	
No load current [A]	132/66.0	66.0	72.0	78.0	
Rated speed [RPM]	1189	989	990	991	
Slip [%]	0.92	1.10	1.00	0.90	
Rated torque [kgfm]	76.3	73.4	73.3	73.2	
Locked rotor torque [%]	210	180	210	220	
Breakdown torque [%]	250	250	280	300	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	19s (cold) 11s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	16s (cold) 9s (hot)	
Noise level ²	69.0 dB(A)				
Efficiency (%)	25%				
	50%	94.5	94.2	93.7	
	75%	95.0	94.6	94.4	
	100%	95.0	94.6	94.6	
Power Factor	25%				
	50%	0.59	0.60	0.55	
	75%	0.71	0.73	0.68	
	100%	0.77	0.79	0.76	
Bearing type	: <u>Drive end</u> 6319 C3	<u>Non drive end</u> 6212 Z C3	Foundation loads		
Sealing	: Without	Without	Max. traction	: 1608 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 2235 kgf	
Lubrication interval	: 20000 h	20000 h			
Lubricant amount	: 45 g	13 g			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 341A SF 1.15 SFA 392A					
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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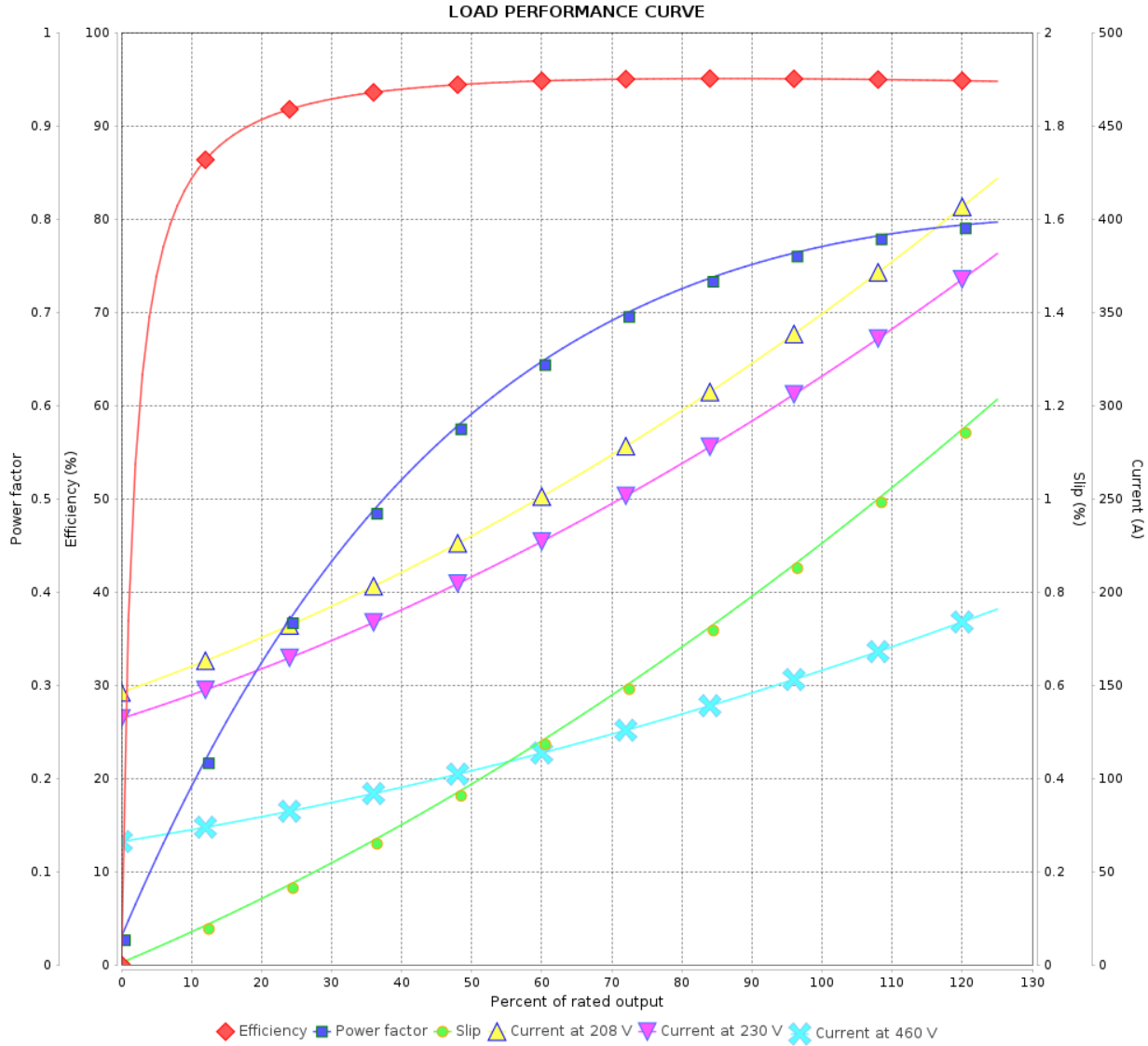
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14892993



Performance : 230/460 V 60 Hz 6P

Rated current : 308/154 A
 LRC : 6.3
 Rated torque : 76.3 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1189 rpm

Moment of inertia (J) : 2.66 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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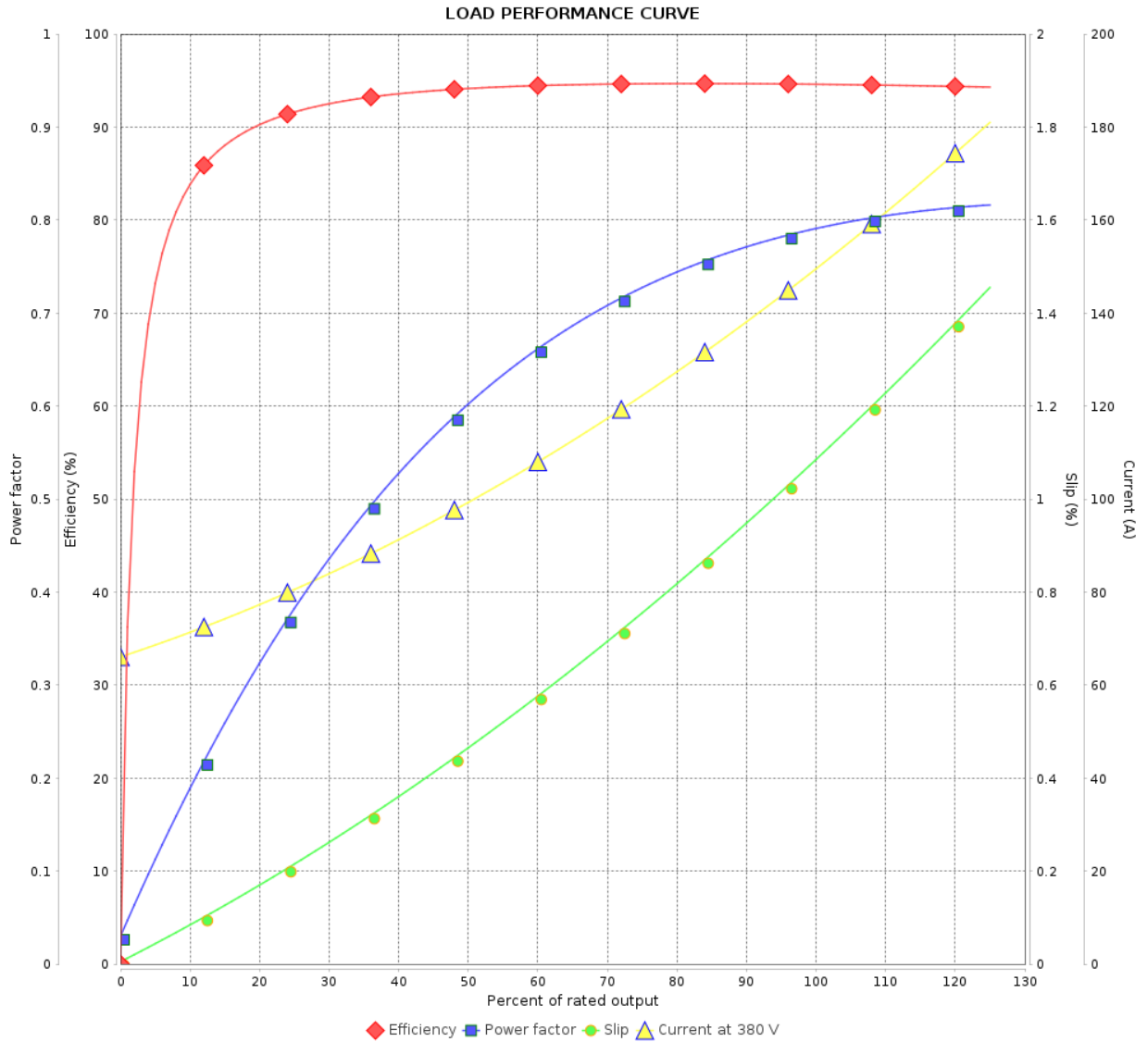
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14892993



Performance : 380 V 50 Hz 6P IE3

Rated current : 152 A
 LRC : 6.6
 Rated torque : 73.4 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 250 %
 Rated speed : 989 rpm

Moment of inertia (J) : 2.66 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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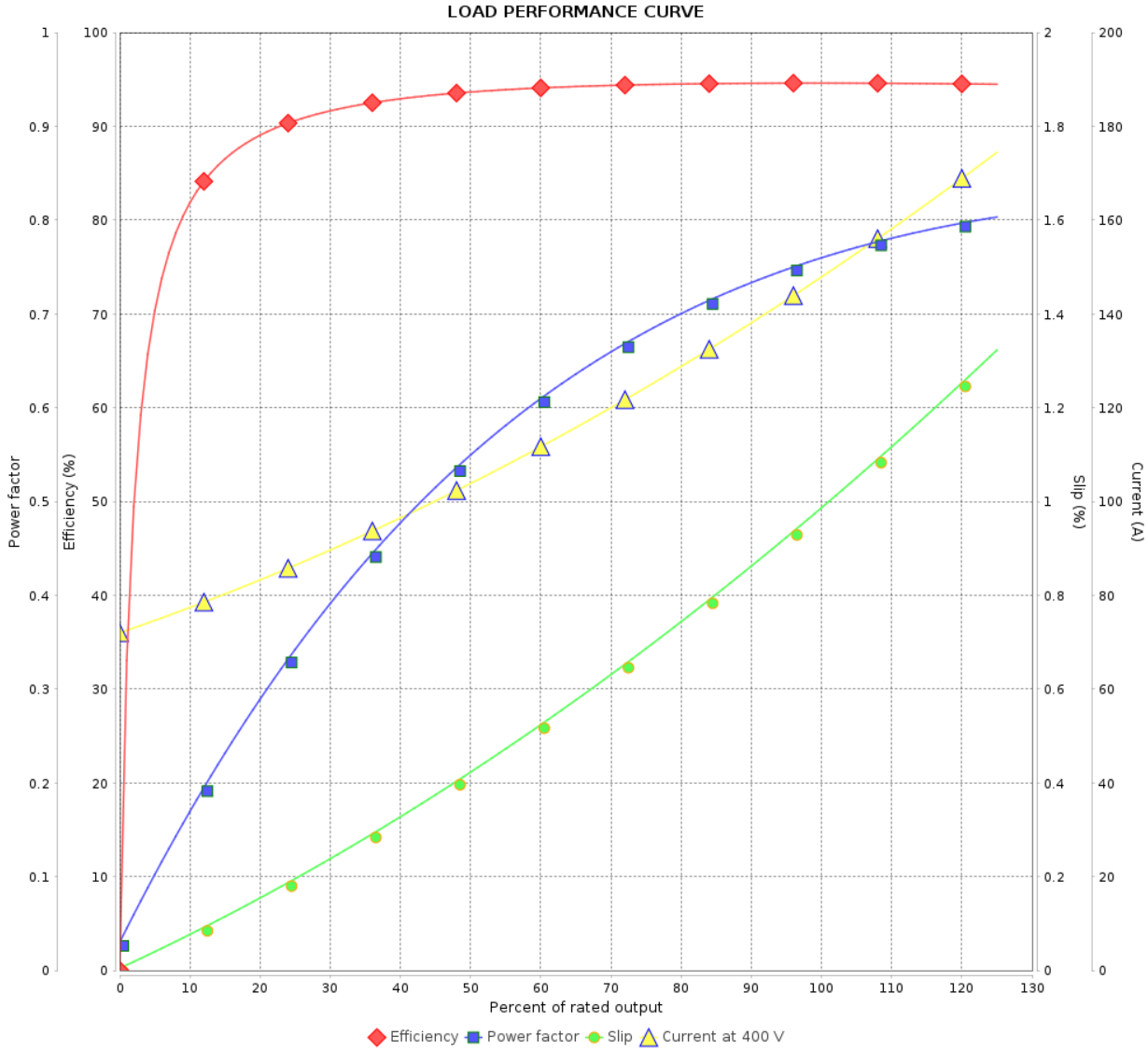
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14892993



Performance : 400 V 50 Hz 6P IE3

Rated current : 151 A
 LRC : 6.9
 Rated torque : 73.3 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 990 rpm

Moment of inertia (J) : 2.66 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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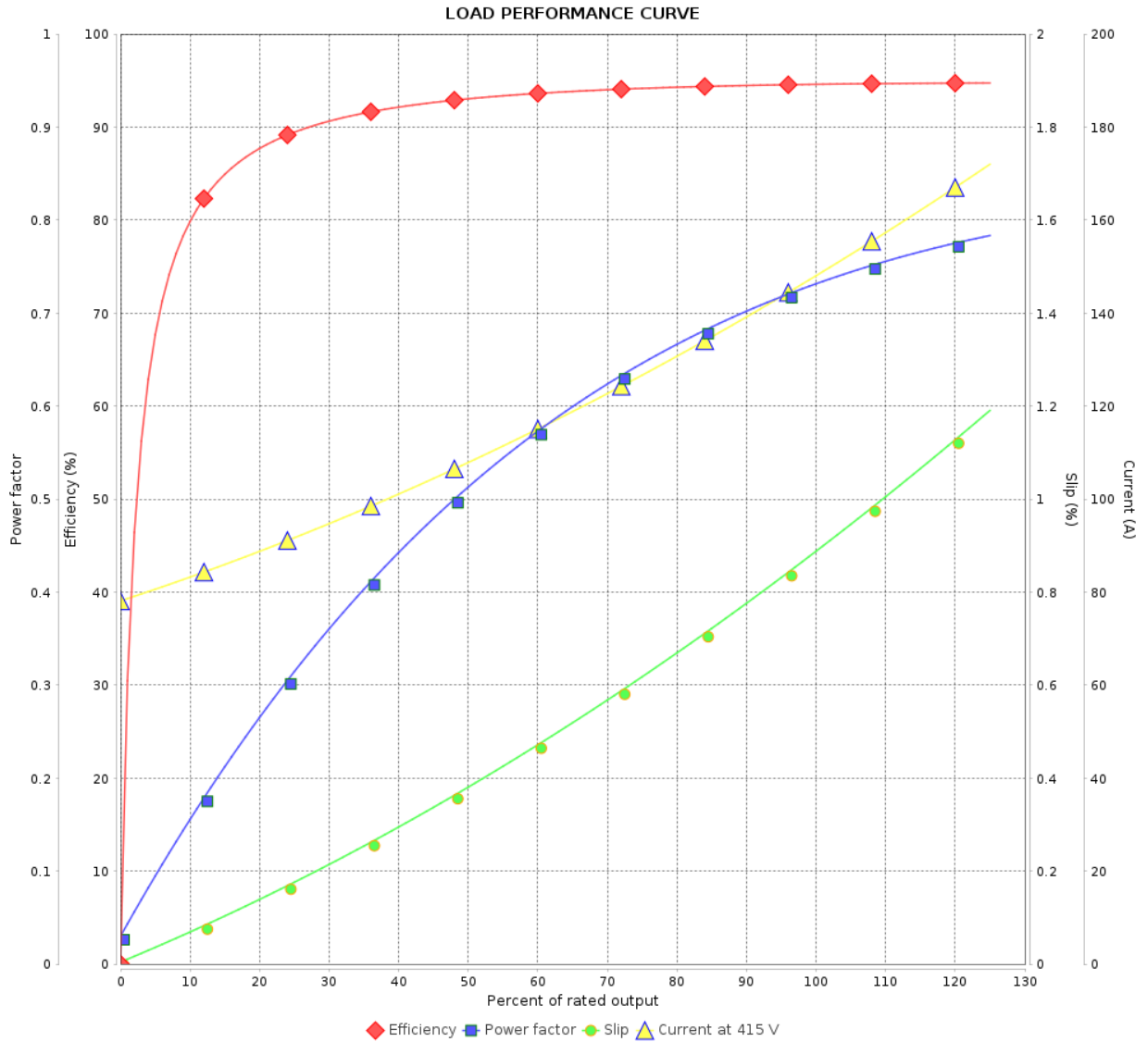
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14892993



Performance : 415 V 50 Hz 6P IE3

Rated current : 151 A
 LRC : 6.9
 Rated torque : 73.2 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 300 %
 Rated speed : 991 rpm

Moment of inertia (J) : 2.66 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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