

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 14865595			
Frame : 404/5TSD	Insulation class : F	Cooling method : IC01 - ODP	Mounting : F-1		
Duty cycle : Cont.(S1)	Ambient temperature : -20°C to +40°C	Rotation ¹ : Both (CW and CCW)	Starting method : Direct On Line		
Altitude : 1000 m.a.s.l.	Protection degree : IP23	Approx. weight ³ : 427 kg	Moment of inertia (J) : 0.3708 kgm ²		
Design : B					
Output [HP]	150	100	100	100	
Poles	2	2	2	2	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	334/167	137	133	133	
L. R. Amperes [A]	2204/1102	986	1051	1117	
LRC [A]	6.6x(Code G)	7.2x(Code H)	7.9x(Code J)	8.4x(Code K)	
No load current [A]	80.0/40.0	43.8	43.7	48.9	
Rated speed [RPM]	3552	2960	2965	2965	
Slip [%]	1.33	1.33	1.17	1.17	
Rated torque [kgfm]	30.6	24.5	24.5	24.5	
Locked rotor torque [%]	200	229	250	270	
Breakdown torque [%]	250	290	330	360	
Service factor	1.25	1.00	1.00	1.00	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	16s (cold) 9s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	18s (cold) 10s (hot)	
Noise level ²	84.0 dB(A)				
Efficiency (%)	25%				
	50%	93.6	93.7	93.2	
	75%	94.1	94.4	94.2	
	100%	94.1	94.7	94.7	
Power Factor	25%				
	50%	0.79	0.76	0.70	
	75%	0.86	0.85	0.81	
	100%	0.88	0.88	0.86	
Bearing type	Drive end : 6314 C3	Non drive end : 6212 Z C3	Foundation loads		
Sealing	Without	Without	Max. traction	: 653 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 1080 kgf	
Lubrication interval	: 14418 h	20000 h			
Lubricant amount	: 27 g	13 g			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 369A SF 1.15 SFA 425A					
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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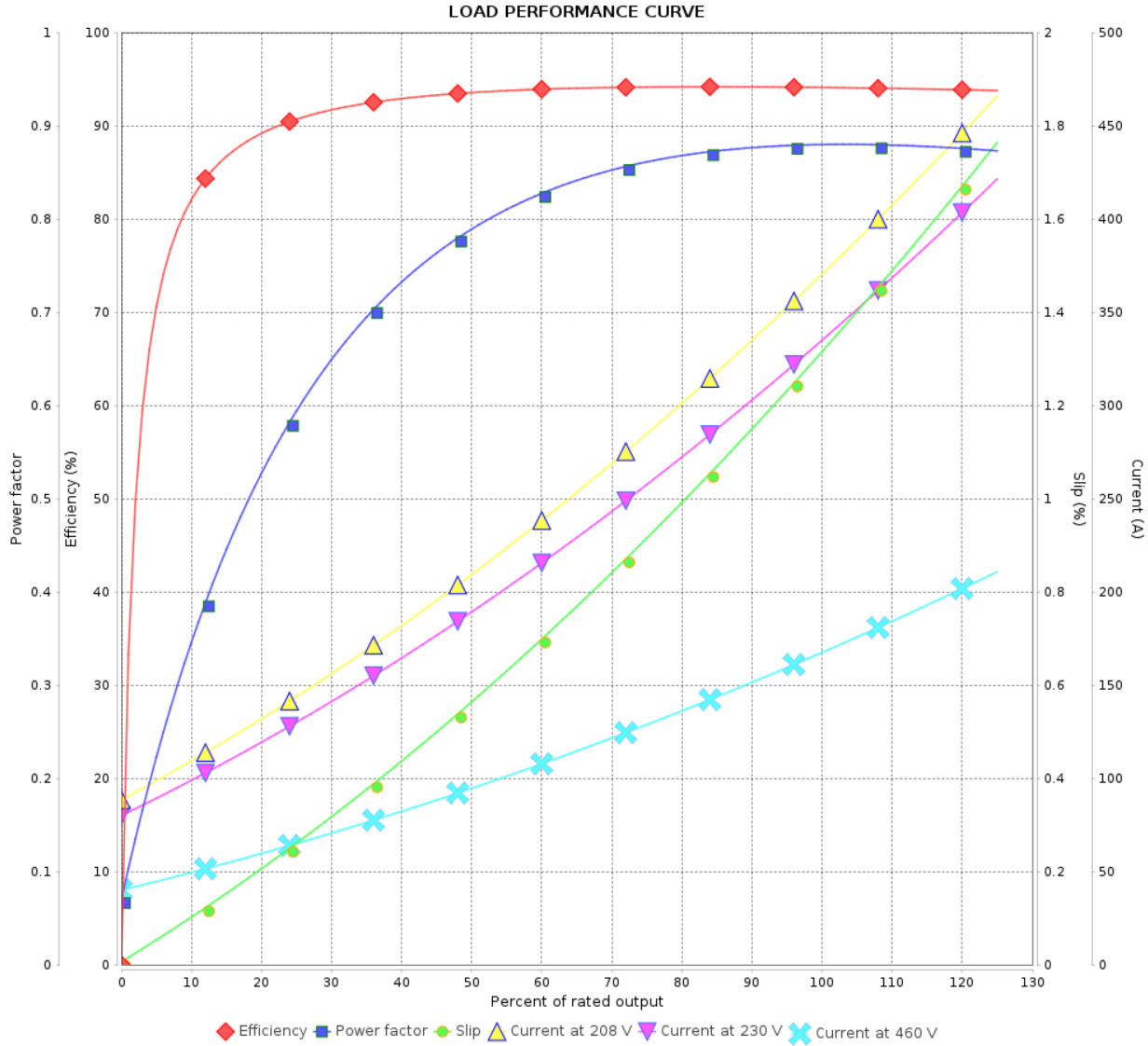
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14865595



Performance : 230/460 V 60 Hz 2P

Rated current : 334/167 A
 LRC : 6.6
 Rated torque : 30.6 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 250 %
 Rated speed : 3552 rpm

Moment of inertia (J) : 0.3708 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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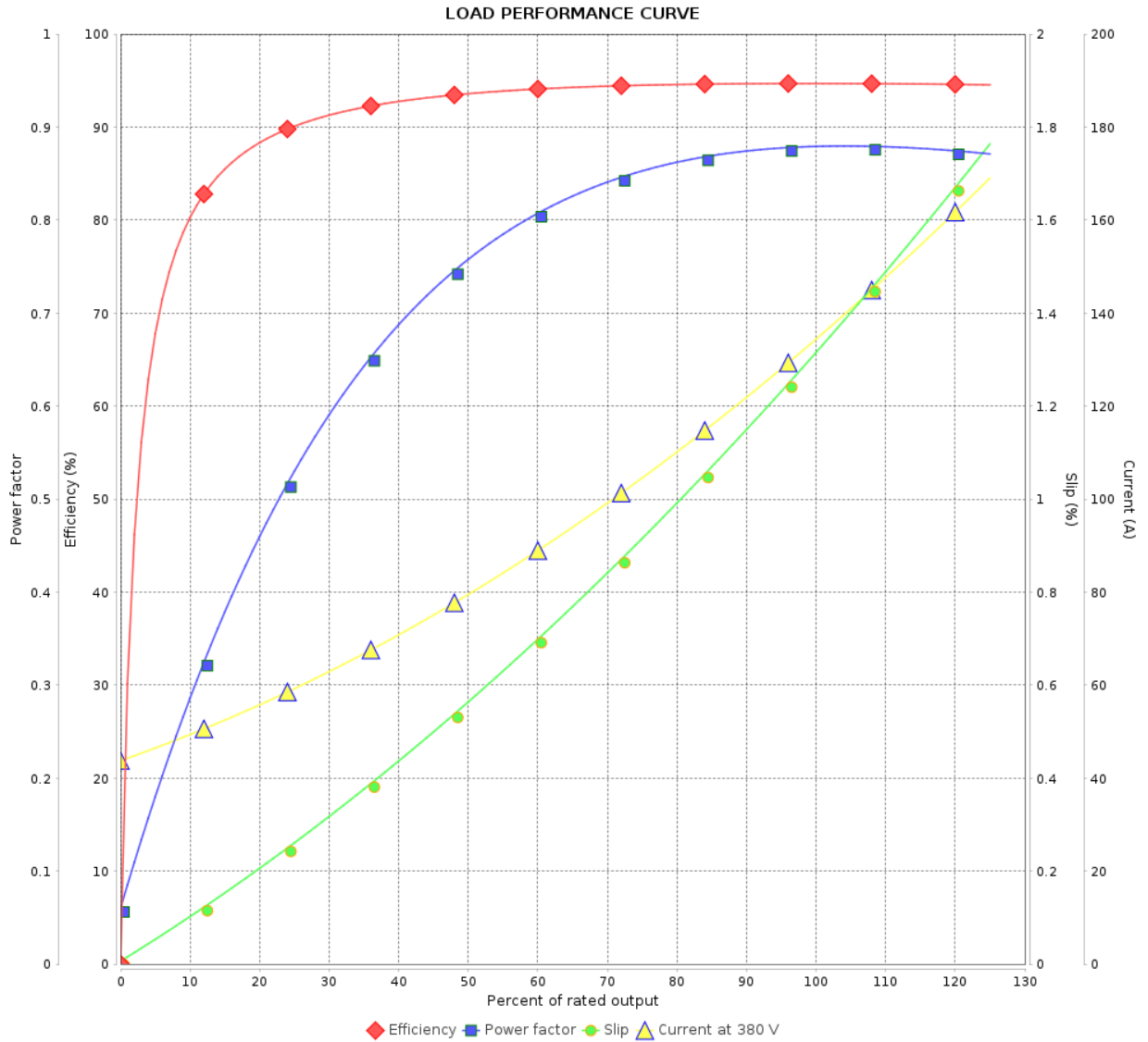
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14865595



Performance : 380 V 50 Hz 2P IE3

Rated current : 137 A
 LRC : 7.2
 Rated torque : 24.5 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 0.3708 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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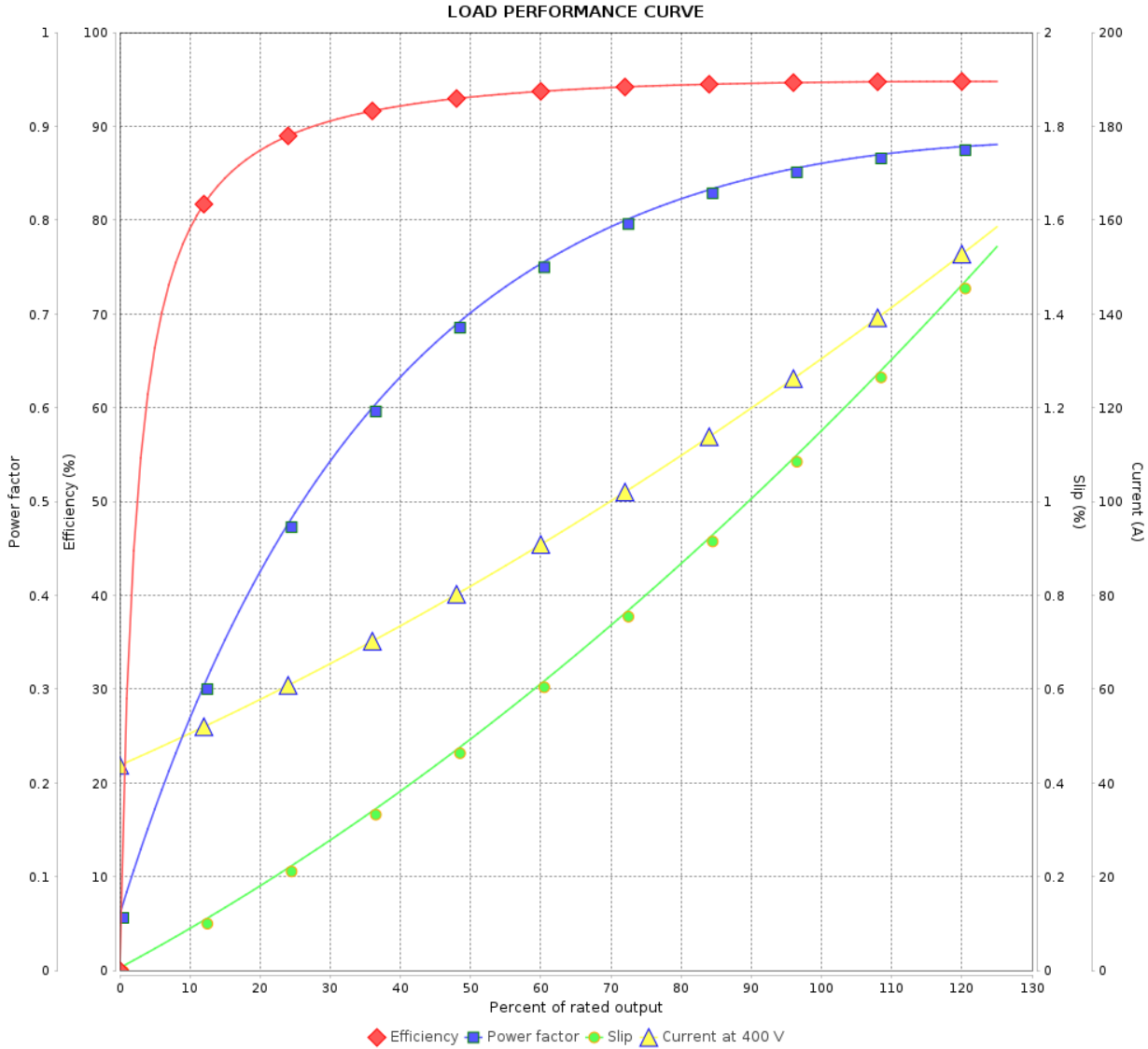
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14865595



Performance : 400 V 50 Hz 2P IE3

Rated current : 133 A
 LRC : 7.9
 Rated torque : 24.5 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 330 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 0.3708 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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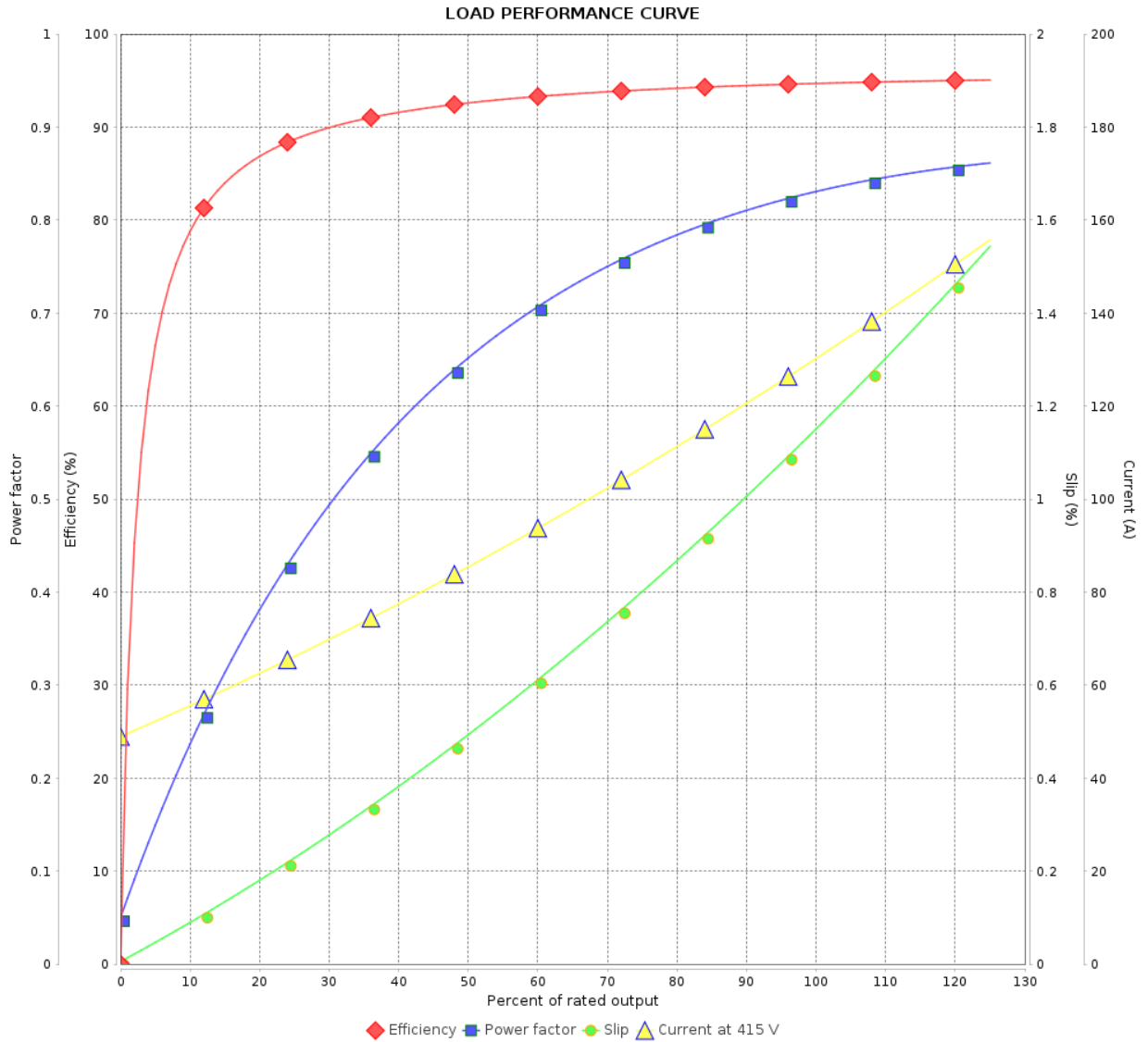
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 14865595



Performance : 415 V 50 Hz 2P IE3

Rated current : 133 A
 LRC : 8.4
 Rated torque : 24.5 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 360 %
 Rated speed : 2965 rpm

Moment of inertia (J) : 0.3708 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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