

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line : W40 NEMA Premium Efficiency Three-Phase		Product code : 15963891			
Frame : 284/6TS	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 : 154 kg	Moment of inertia (J) : 0.0852 kgm ²	
Output [HP]	40	30	30	30	
Poles	2	2	2	2	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	93.6/46.8	41.9	40.7	40.2	
L. R. Amperes [A]	608/304	302	309	310	
LRC [A]	6.5x(Code G)	7.2x(Code H)	7.6x(Code J)	7.7x(Code J)	
No load current [A]	29.8/14.9	14.3	15.8	17.0	
Rated speed [RPM]	3545	2950	2960	2960	
Slip [%]	1.53	1.67	1.33	1.33	
Rated torque [kgfm]	8.20	7.38	7.37	7.36	
Locked rotor torque [%]	190	210	229	250	
Breakdown torque [%]	260	280	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	14s (cold) 8s (hot)	250s (cold) 139s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	
Noise level ²	73.0 dB(A)				
Efficiency (%)	25%				
	50%	91.7	90.0	90.1	
	75%	92.4	91.4	91.4	
	100%	92.4	92.8	92.8	
Power Factor	25%				
	50%	0.76	0.73	0.70	
	75%	0.84	0.82	0.79	
	100%	0.87	0.86	0.84	
Bearing type	: Drive end : 6311 Z C3	: Non drive end : 6211 Z C3	Foundation loads		
Sealing	: Without	: Without	Max. traction		
	: Bearing Seal	: Bearing Seal	Max. compression		
Lubrication interval	: 20000 h	: 20000 h			
Lubricant amount	: 18 g	: 11 g			
Lubricant type	: Mobil Polyrex EM				
Notes USABLE @208V 104A SF 1.15 SFA 119A					
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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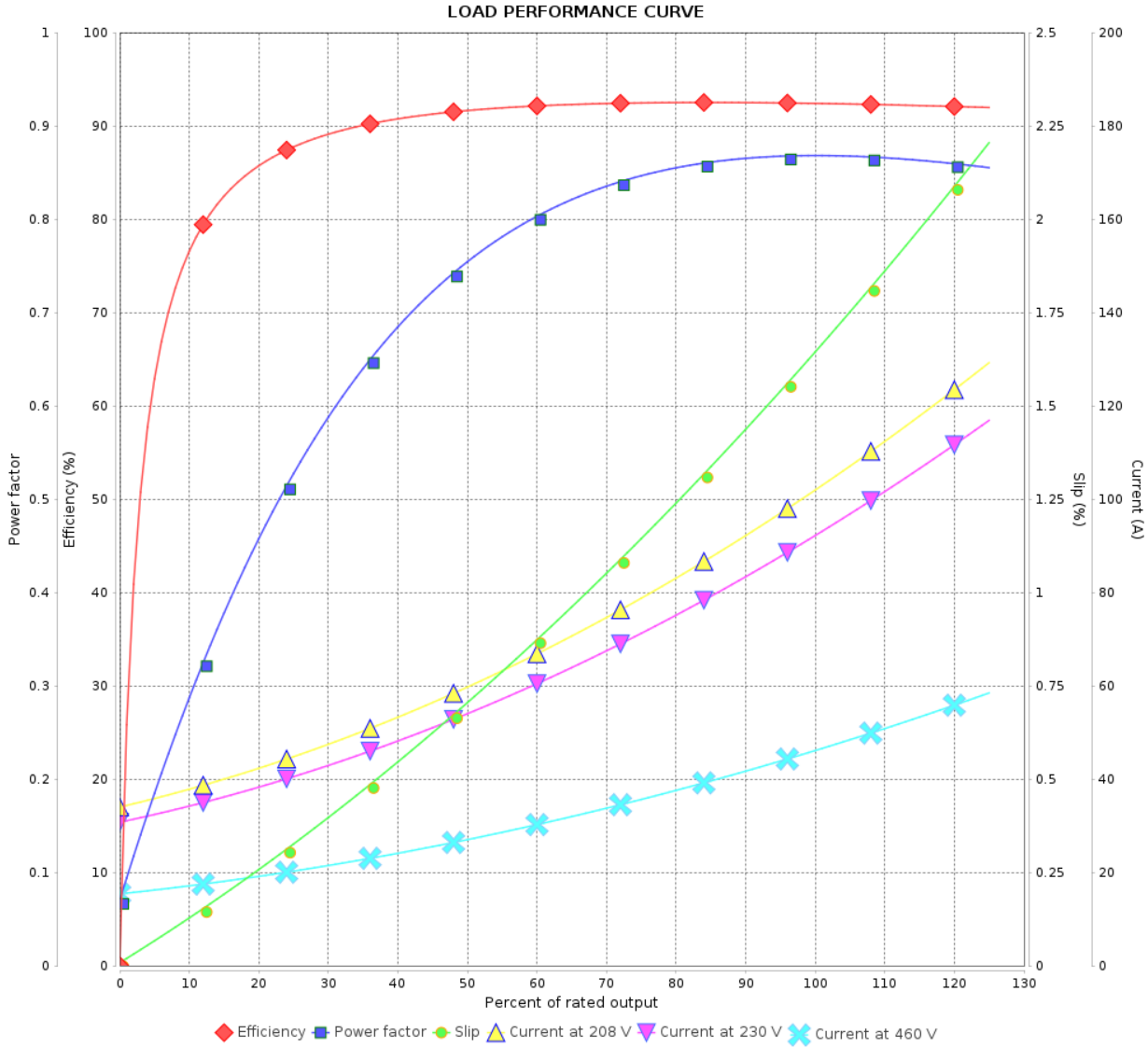
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

Product code : 15963891



Performance : 230/460 V 60 Hz 2P

Rated current : 93.6/46.8 A
 LRC : 6.5
 Rated torque : 8.20 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 260 %
 Rated speed : 3545 rpm

Moment of inertia (J) : 0.0852 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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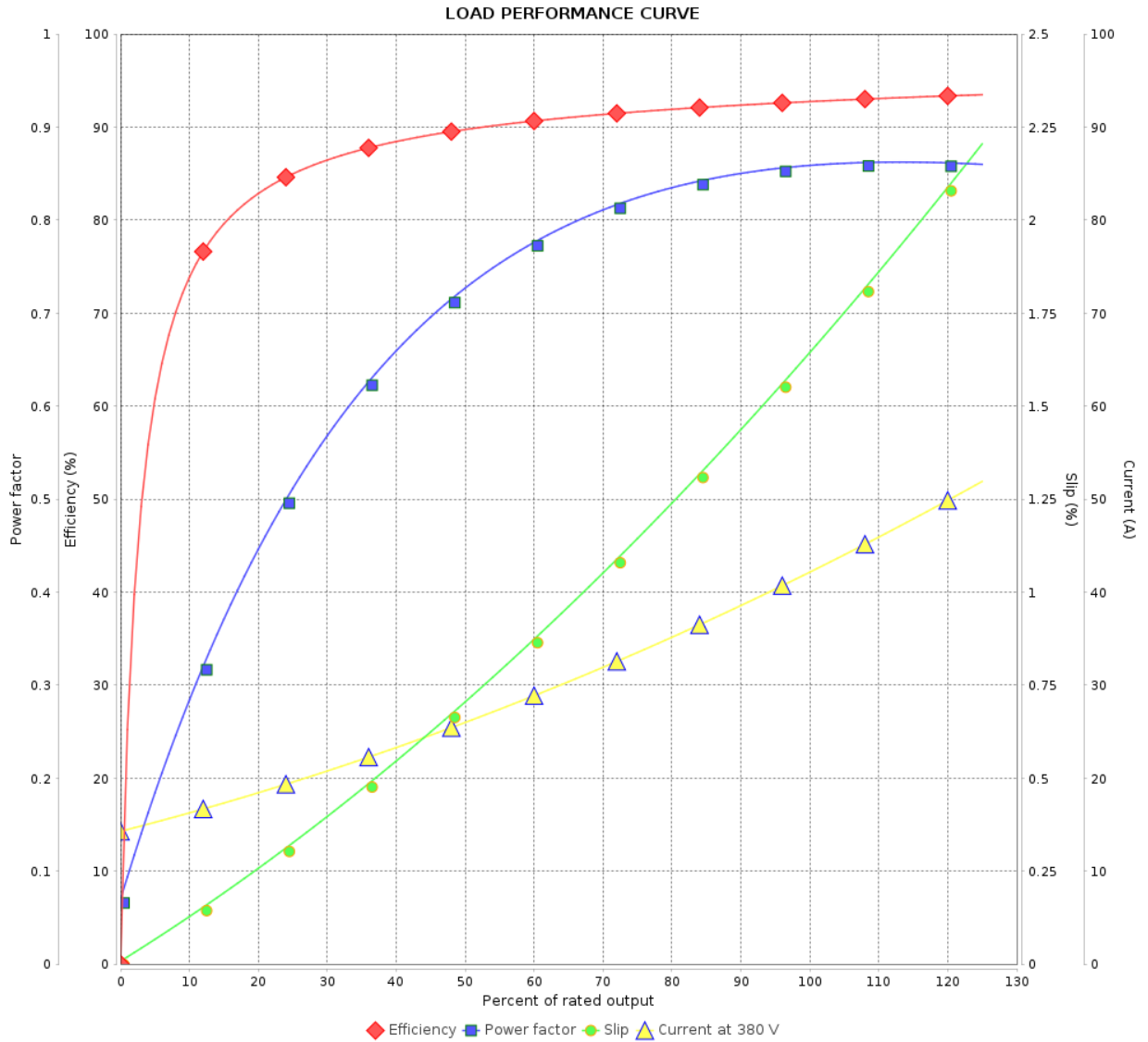
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 NEMA Premium Efficiency Three-Phase

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Performance : 380 V 50 Hz 2P IE3

Rated current : 41.9 A
 LRC : 7.2
 Rated torque : 7.38 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 2950 rpm

Moment of inertia (J) : 0.0852 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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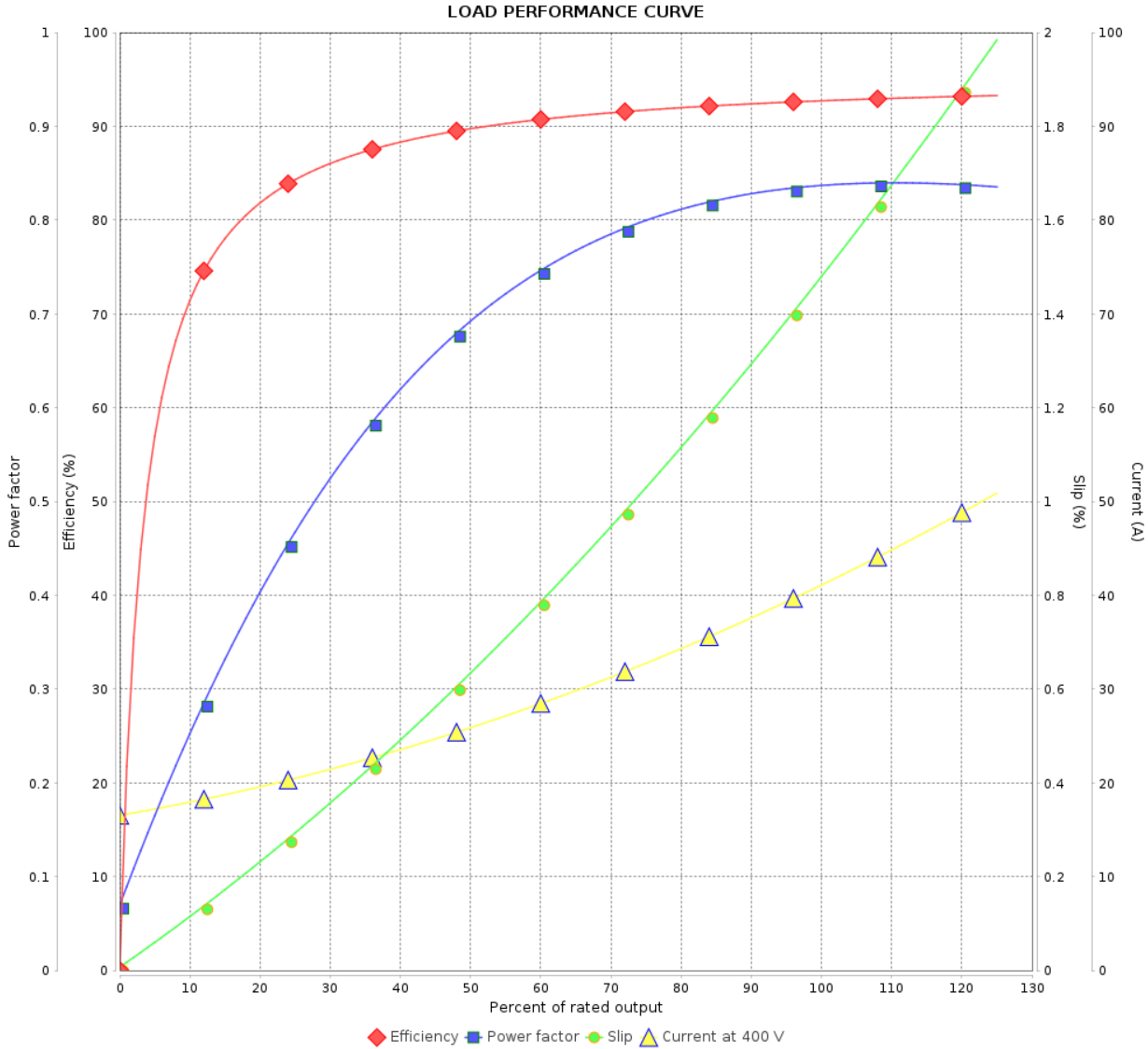
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W40 NEMA Premium Efficiency Three-Phase

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Performance : 400 V 50 Hz 2P IE3

Rated current : 40.7 A
 LRC : 7.6
 Rated torque : 7.37 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 300 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 0.0852 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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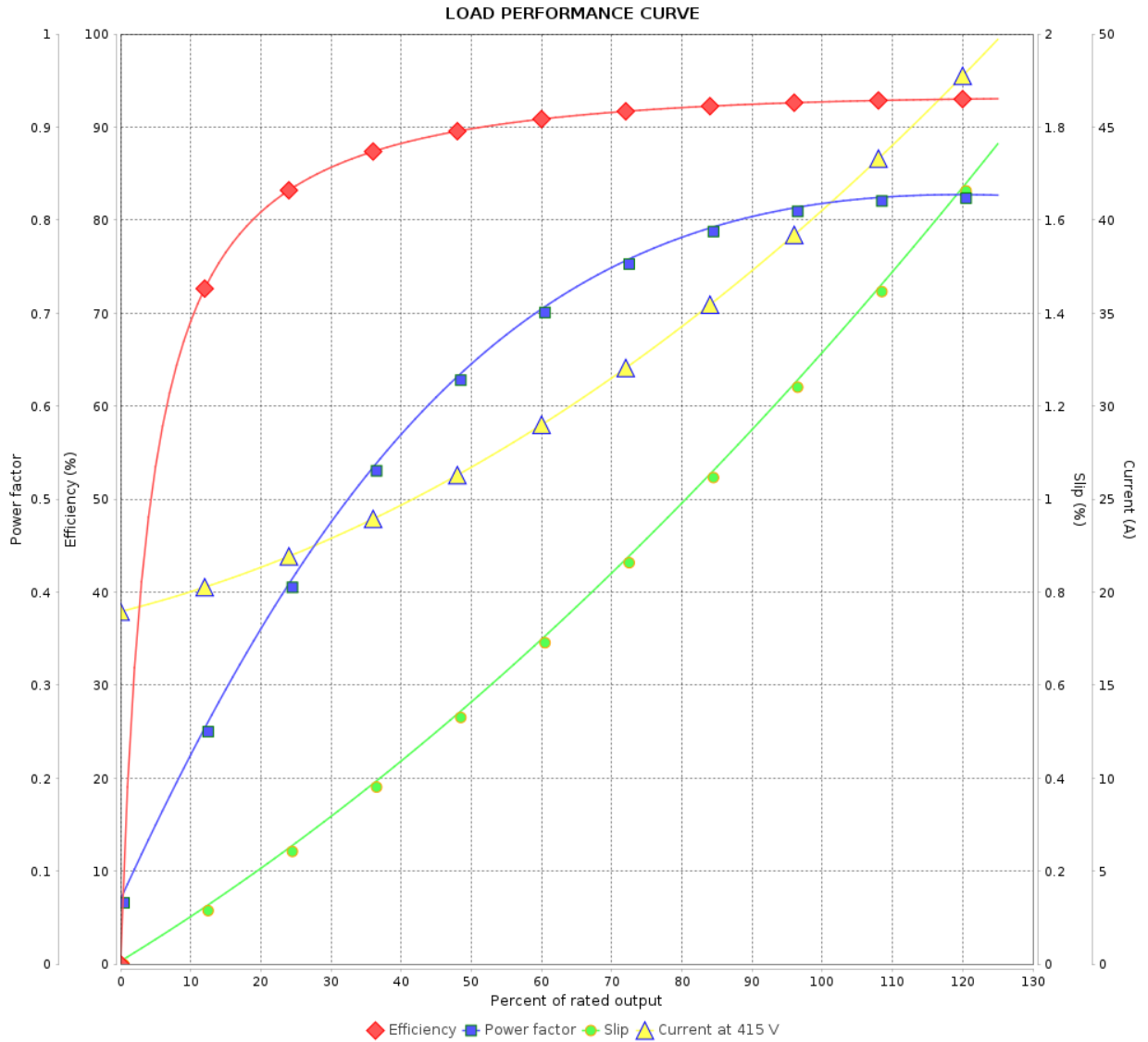
Three Phase Induction Motor - Squirrel Cage



Customer :

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Product code : 15963891



Performance : 415 V 50 Hz 2P IE3

Rated current : 40.2 A
 LRC : 7.7
 Rated torque : 7.36 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 330 %
 Rated speed : 2960 rpm

Moment of inertia (J) : 0.0852 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.00
 Temperature rise : 80 K
 Design : B

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