

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line	: W22 NEMA Premium Efficiency Three-Phase	Product code :	12717264		
Frame	: 254/6TC	Cooling method	: IC411 - TEFC		
Insulation class	: F	Mounting	: F-1		
Duty cycle	: Cont.(S1)	Rotation ¹	: Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³	: 125 kg		
Protection degree	: IP55	Moment of inertia (J)	: 0.1436 kgm ²		
Design	: B				
Output [HP]	5	5	5	5	
Poles	8	8	8	8	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	15.4/7.69	8.96	8.92	8.85	
L. R. Amperes [A]	81.5/40.8	44.8	45.5	46.9	
LRC [A]	5.3x(Code H)	5.0x(Code G)	5.1x(Code H)	5.3x(Code H)	
No load current [A]	10.8/5.40	5.20	5.70	6.20	
Rated speed [RPM]	883	725	730	730	
Slip [%]	1.89	3.33	2.67	2.67	
Rated torque [kgfm]	4.11	5.01	4.97	4.97	
Locked rotor torque [%]	250	180	200	229	
Breakdown torque [%]	280	190	229	260	
Service factor	1.25	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	77s (cold) 43s (hot)	59s (cold) 33s (hot)	59s (cold) 33s (hot)	55s (cold) 31s (hot)	
Noise level ²	54.0 dB(A)	51.0 dB(A)	51.0 dB(A)	51.0 dB(A)	
Efficiency (%)	25%				
	50%	84.7	84.0	83.7	82.0
	75%	87.0	84.8	85.5	85.5
	100%	87.5	84.8	85.5	85.5
Power Factor	25%				
	50%	0.48	0.55	0.50	0.46
	75%	0.61	0.67	0.62	0.59
	100%	0.69	0.74	0.70	0.68
Losses at normative operating points (speed;torque), in percentage of rated output power					
Losses (%)	P1 (0,9;1,0)	13.7	13.7	13.7	13.7
	P2 (0,5;1,0)	11.9	11.9	11.9	11.9
	P3 (0,25;1,0)	12.0	12.0	12.0	12.0
	P4 (0,9;0,5)	7.8	7.8	7.8	7.8
	P5 (0,5;0,5)	5.9	5.9	5.9	5.9
	P6 (0,5;0,25)	4.6	4.6	4.6	4.6
	P7 (0,25;0,25)	3.6	3.6	3.6	3.6
Bearing type	: Drive end : 6309 C3	Non drive end : 6209 C3	Foundation loads		
Sealing	: V'Ring	V'Ring	Max. traction	: 141 kgf	
Lubrication interval	: 20000 h	20000 h	Max. compression	: 265 kgf	
Lubricant amount	: 13 g	9 g			
Lubricant type	: Mobil Polyrex EM				
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 16.8A SF 1.15 SFA 19.3A

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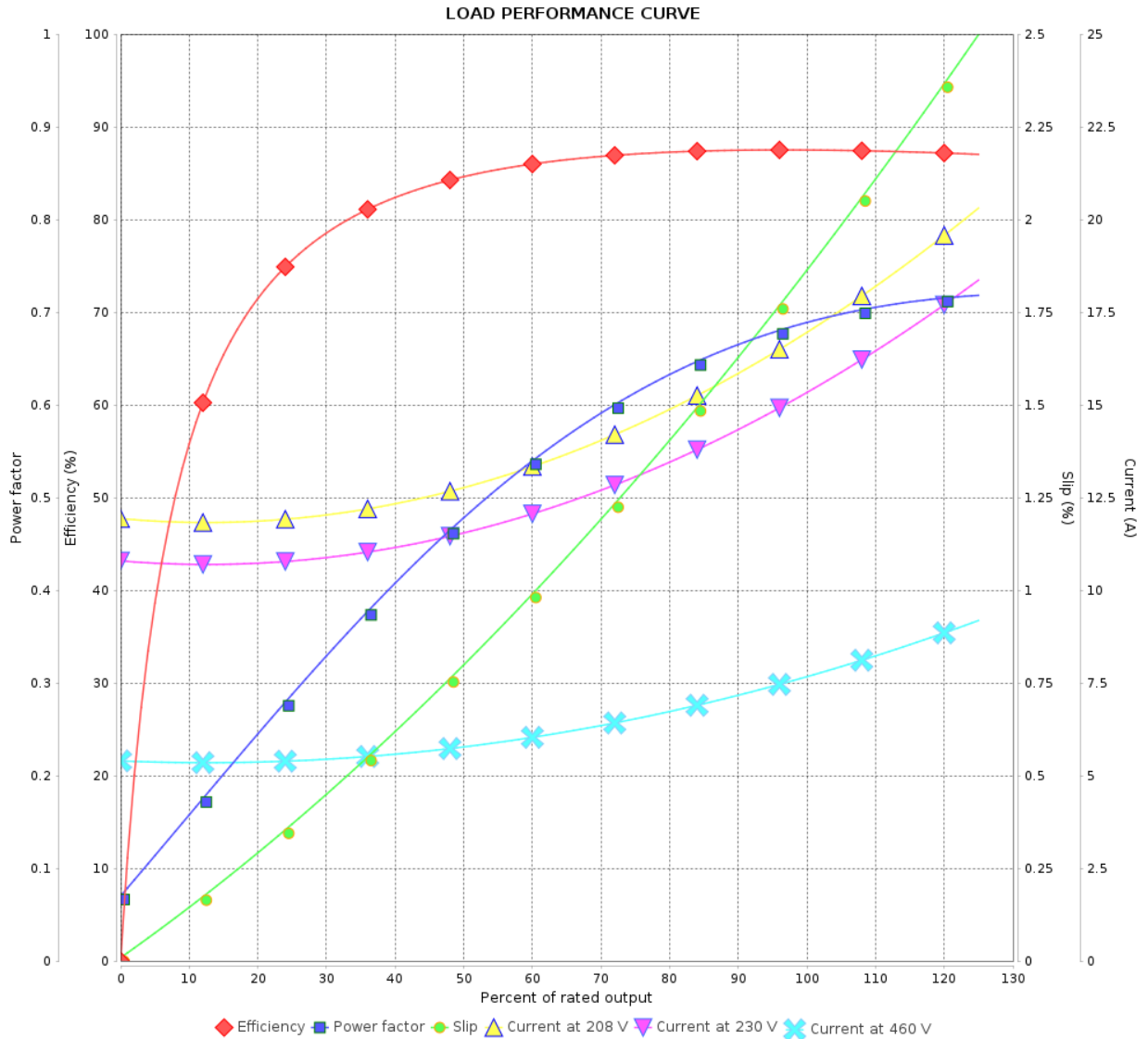
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase

Product code : 12717264



Performance : 230/460 V 60 Hz 8P

Rated current : 15.4/7.69 A
 LRC : 5.3
 Rated torque : 4.11 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 280 %
 Rated speed : 883 rpm

Moment of inertia (J) : 0.1436 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.25
 Temperature rise : 80 K
 Design : B

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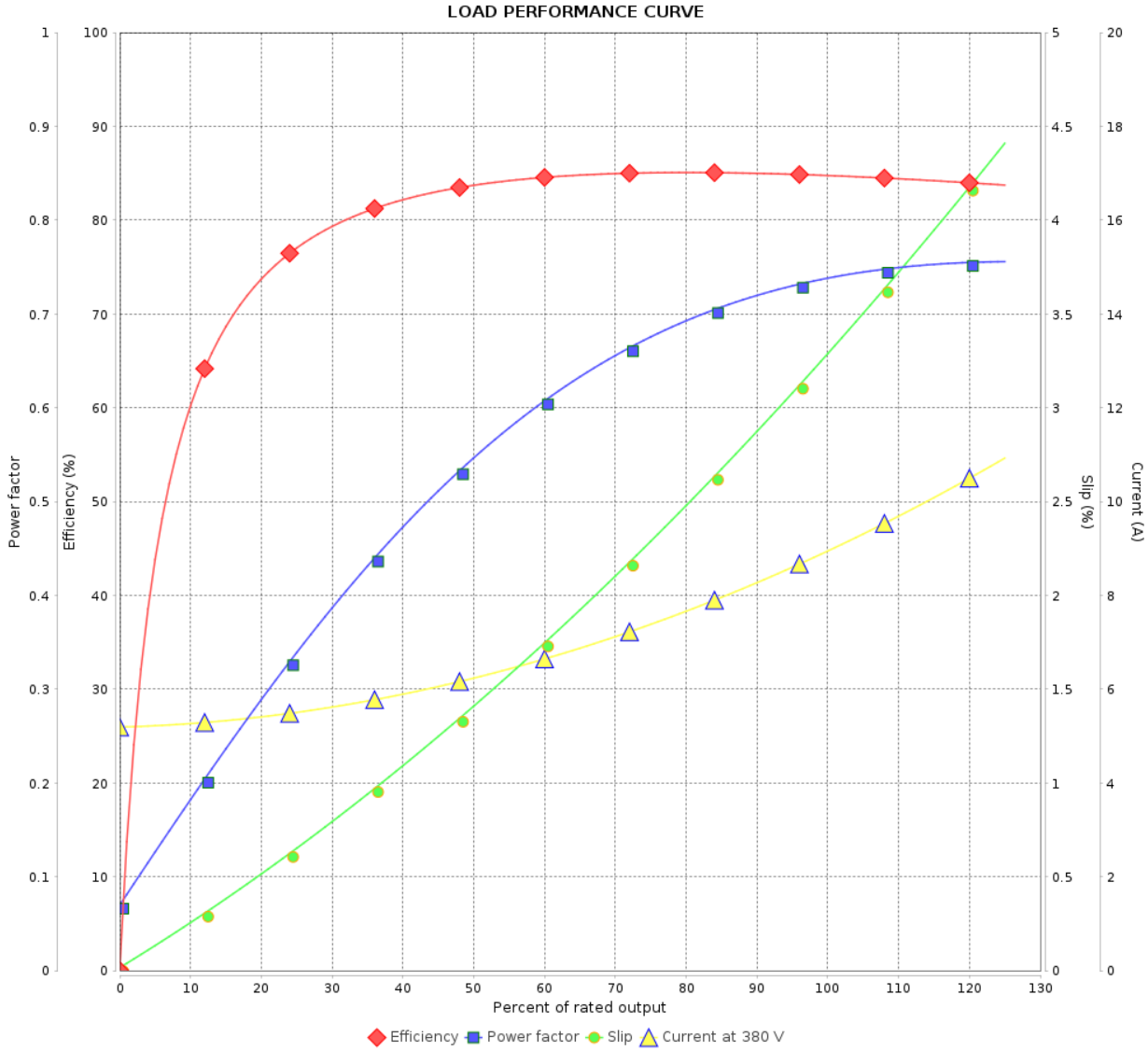
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : W22 NEMA Premium Efficiency Three-Phase

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Performance : 380 V 50 Hz 8P IE3

Rated current : 8.96 A
 LRC : 5.0
 Rated torque : 5.01 kgfm
 Locked rotor torque : 180 %
 Breakdown torque : 190 %
 Rated speed : 725 rpm

Moment of inertia (J) : 0.1436 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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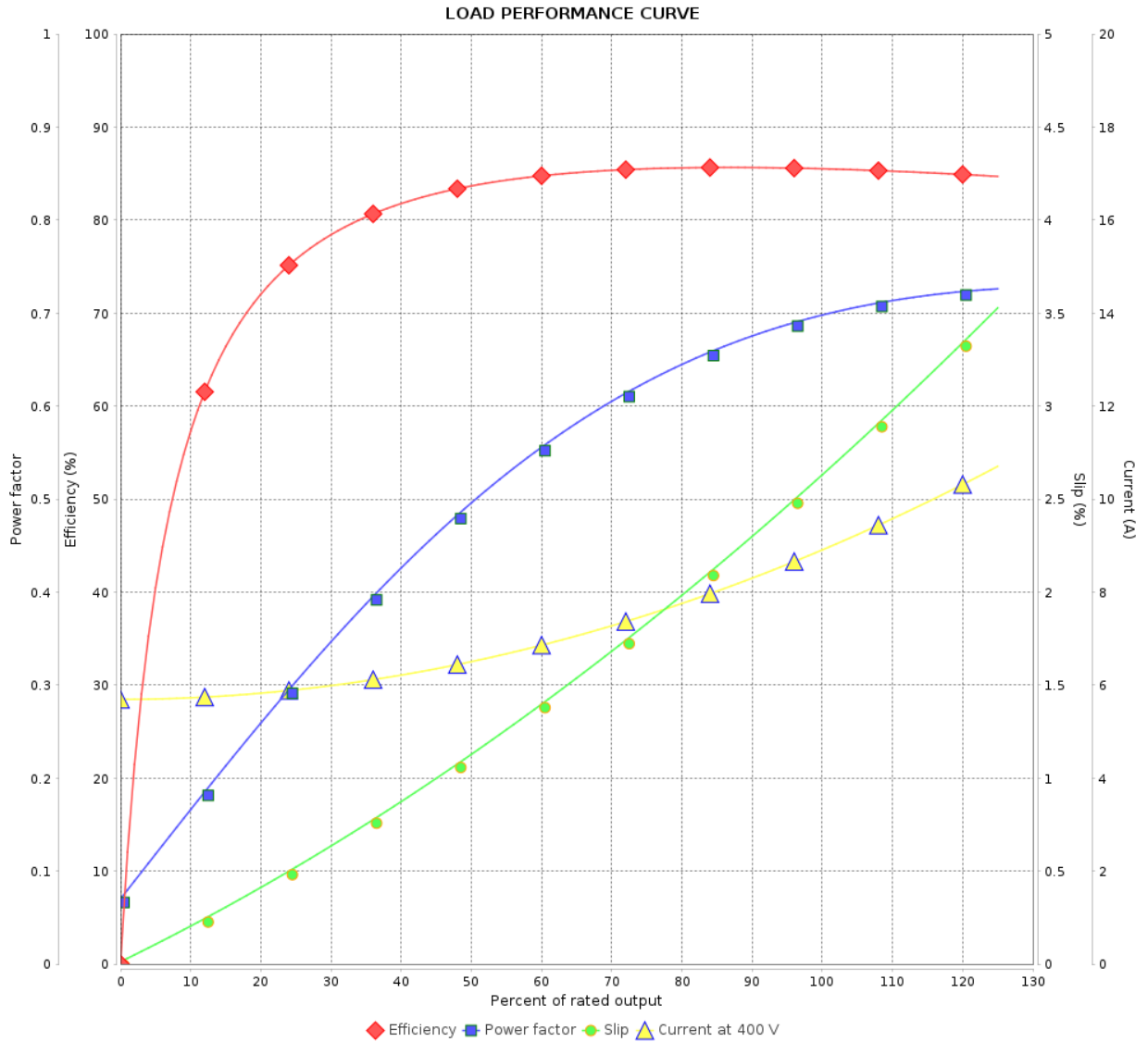
Three Phase Induction Motor - Squirrel Cage



Customer : _____

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Performance : 400 V 50 Hz 8P IE3

Rated current : 8.92 A
 LRC : 5.1
 Rated torque : 4.97 kgfm
 Locked rotor torque : 200 %
 Breakdown torque : 229 %
 Rated speed : 730 rpm

Moment of inertia (J) : 0.1436 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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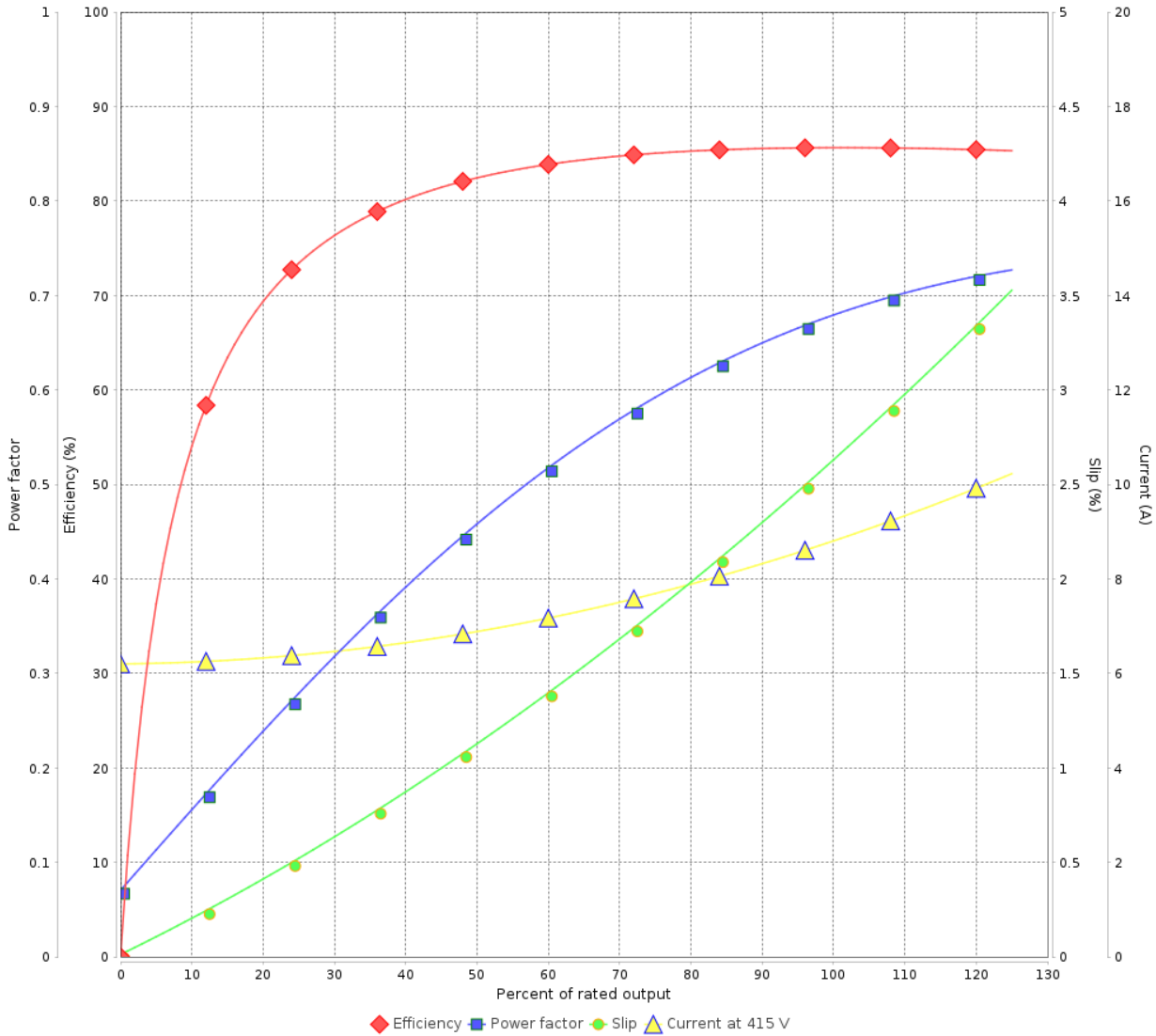


Customer : _____

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Performance : 415 V 50 Hz 8P IE3

Rated current : 8.85 A
 LRC : 5.3
 Rated torque : 4.97 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 260 %
 Rated speed : 730 rpm

Moment of inertia (J) : 0.1436 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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