

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :					
Product line		: Close Coupled Pump NEMA Premium Efficiency Three-Phase		Product code :	11168161
Frame	: E143/5JM	Cooling method	: IC01 - ODP		
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	: 18.5 kg		
Protection degree	: IP21	Moment of inertia (J)	: 0.0052 kgm ²		
Design	: B				
Output [HP]	1	1	1	1	
Poles	4	4	4	4	
Frequency [Hz]	60	50	50	50	
Rated voltage [V]	230/460	380	400	415	
Rated current [A]	2.90/1.45	1.70	1.60	1.58	
L. R. Amperes [A]	23.2/11.6	11.2	10.6	10.4	
LRC [A]	8.0x(Code L)	6.6x(Code J)	6.6x(Code J)	6.6x(Code J)	
No load current [A]	2.00/1.00	0.850	0.900	0.950	
Rated speed [RPM]	1730	1420	1420	1420	
Slip [%]	3.89	5.33	5.33	5.33	
Rated torque [kgfm]	0.419	0.511	0.511	0.511	
Locked rotor torque [%]	320	250	270	290	
Breakdown torque [%]	330	270	290	310	
Service factor		1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	
Locked rotor time	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	27s (cold) 15s (hot)	
Noise level ²	50.0 dB(A)				
Efficiency (%)	25%				
	50%	82.5	81.5	81.5	81.5
	75%	85.5	84.0	82.0	82.0
	100%	85.5	82.5	82.5	82.5
Power Factor	25%				
	50%	0.54	0.65	0.63	0.61
	75%	0.68	0.77	0.75	0.73
	100%	0.76	0.84	0.82	0.80
Bearing type	: <u>Drive end</u> 6206 ZZ	<u>Non drive end</u> 6204 ZZ	Foundation loads		
Sealing	: Without	Without	Max. traction	: 36 kgf	
	Bearing Seal	Bearing Seal	Max. compression	: 54 kgf	
Lubrication interval	: -	-			
Lubricant amount	: -	-			
Lubricant type	: Mobil Polyrex EM				
Notes					
USABLE @208V 3.00A SF 1.00 SFA 3.00A					
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.		
Rev.	Changes Summary		Performed	Checked	Date
Performed by					
Checked by				Page	Revision
Date	13/01/2024			1 / 5	

LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

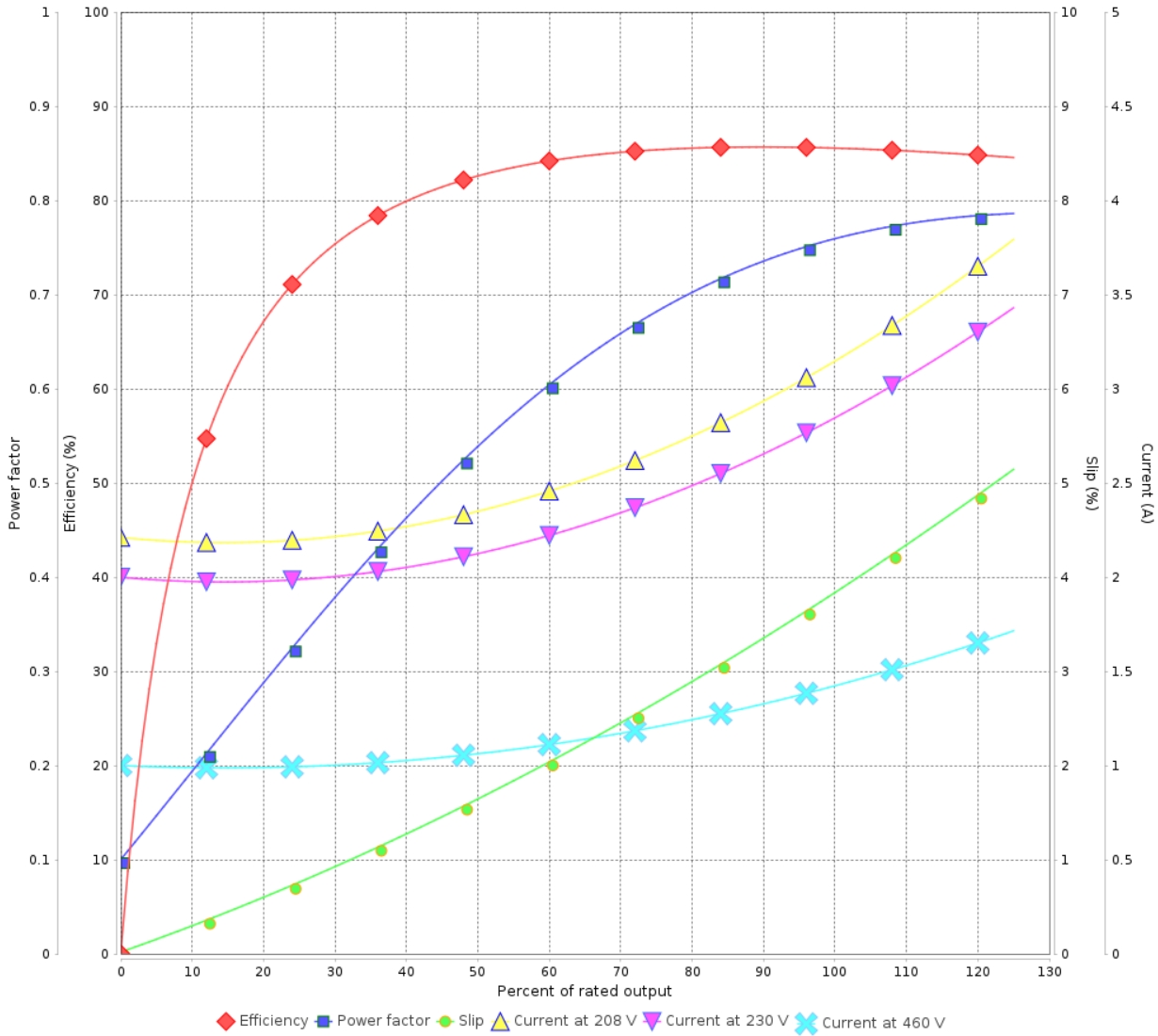


Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11168161

LOAD PERFORMANCE CURVE



Performance : 230/460 V 60 Hz 4P

Rated current : 2.90/1.45 A
LRC : 8.0
Rated torque : 0.419 kgfm
Locked rotor torque : 320 %
Breakdown torque : 330 %
Rated speed : 1730 rpm

Moment of inertia (J) : 0.0052 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor :
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page	Revision
Checked by				
Date				

LOAD PERFORMANCE CURVE

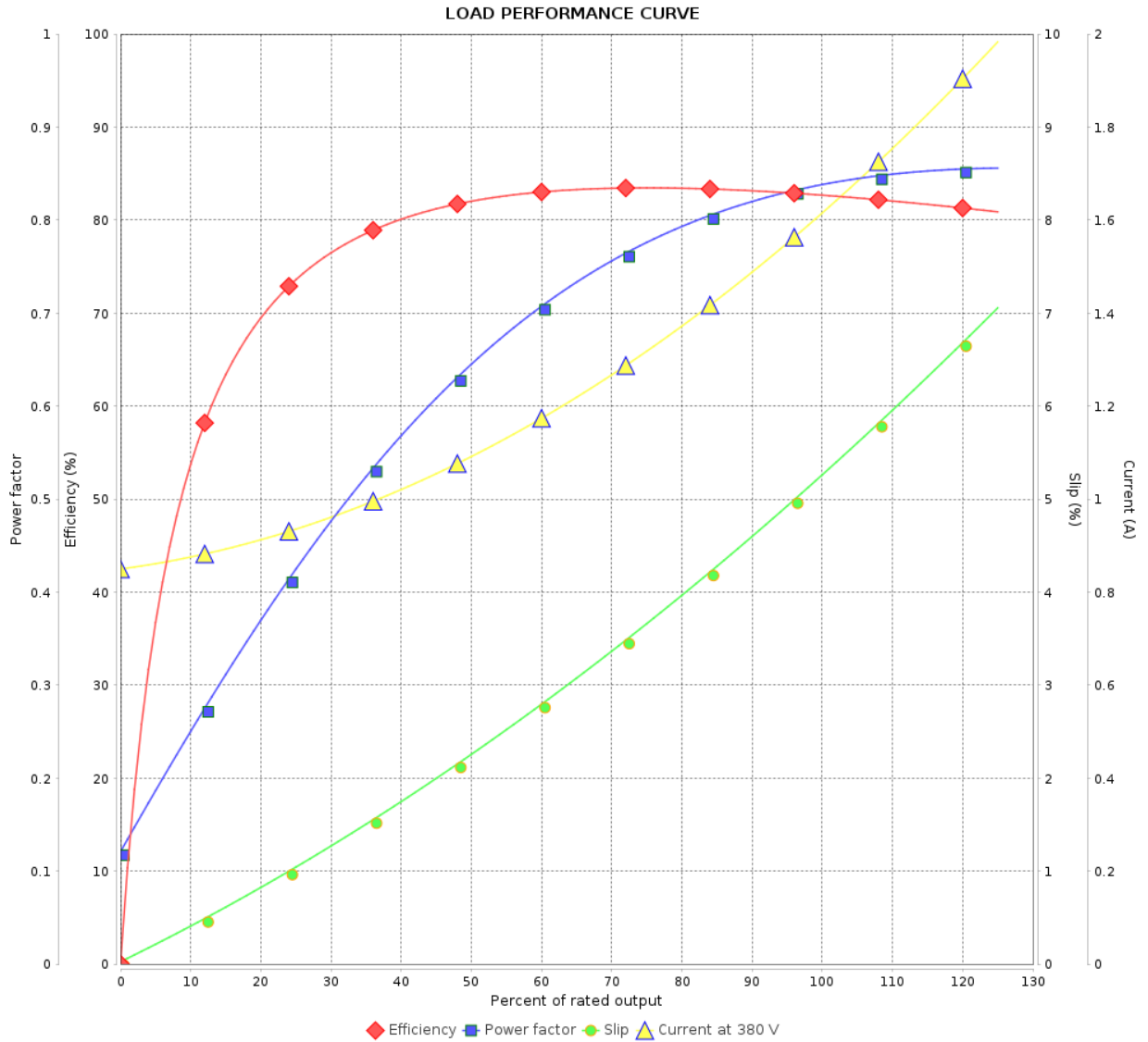
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11168161



Performance : 380 V 50 Hz 4P IE3

Rated current : 1.70 A
 LRC : 6.6
 Rated torque : 0.511 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 270 %
 Rated speed : 1420 rpm

Moment of inertia (J) : 0.0052 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 3 / 5	Revision
Checked by				
Date	13/01/2024			

LOAD PERFORMANCE CURVE

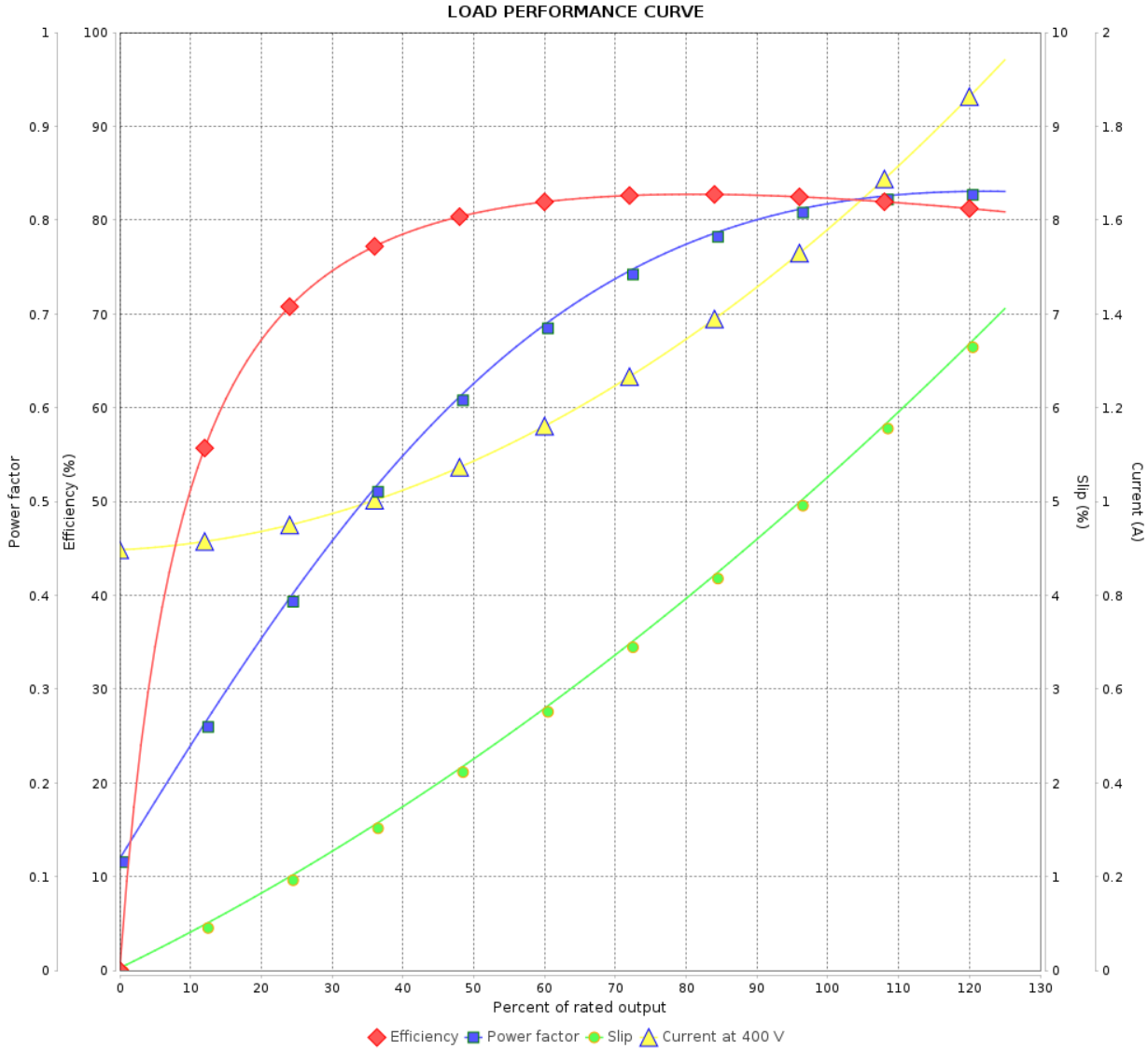
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11168161



Performance : 400 V 50 Hz 4P IE3

Rated current : 1.60 A
LRC : 6.6
Rated torque : 0.511 kgfm
Locked rotor torque : 270 %
Breakdown torque : 290 %
Rated speed : 1420 rpm

Moment of inertia (J) : 0.0052 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 5	Revision
Checked by				
Date	13/01/2024			

LOAD PERFORMANCE CURVE

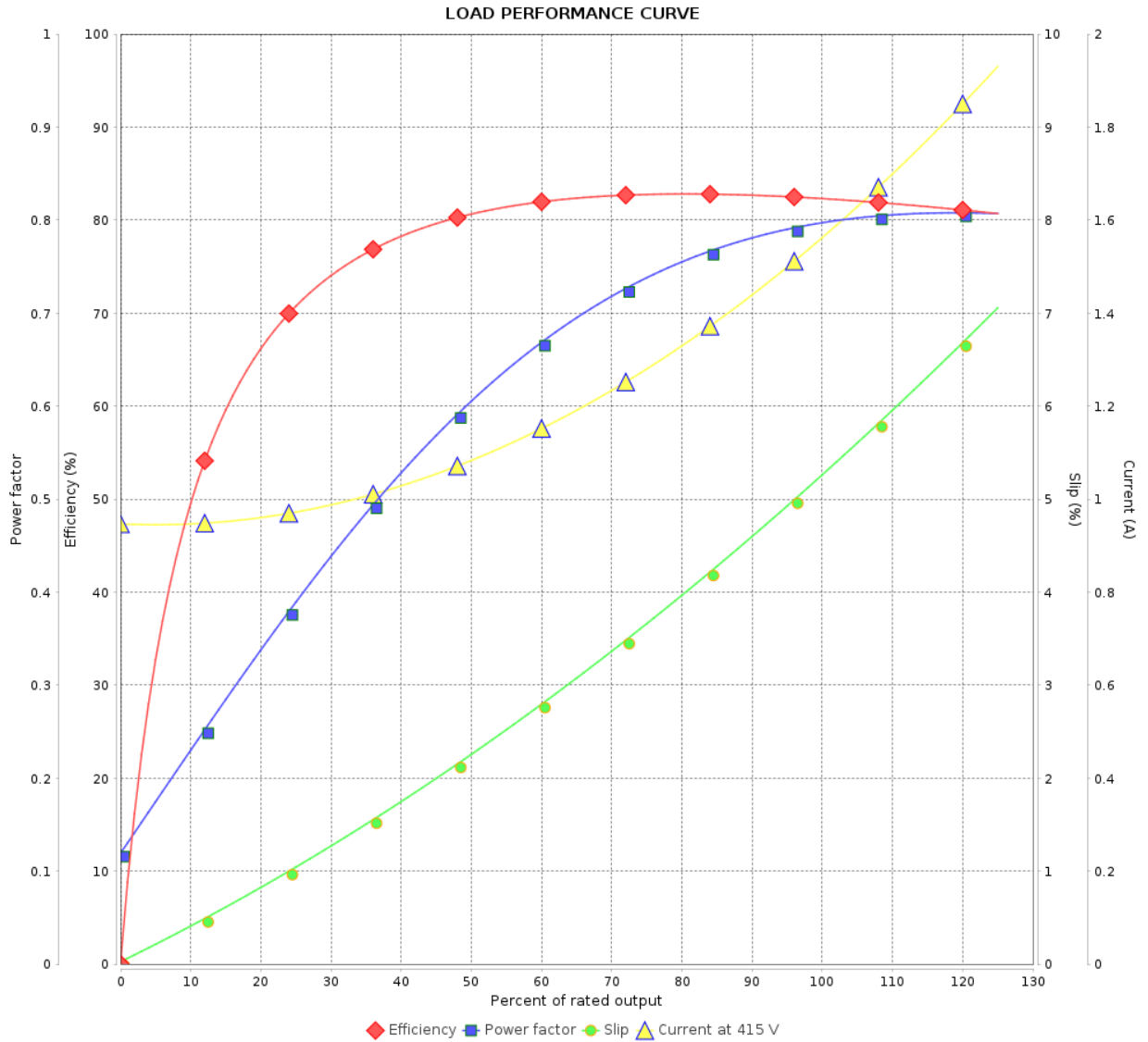
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : Close Coupled Pump NEMA Premium
Efficiency Three-Phase

Product code : 11168161



Performance : 415 V 50 Hz 4P IE3

Rated current : 1.58 A
LRC : 6.6
Rated torque : 0.511 kgfm
Locked rotor torque : 290 %
Breakdown torque : 310 %
Rated speed : 1420 rpm

Moment of inertia (J) : 0.0052 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 5 / 5	Revision
Checked by				
Date	13/01/2024			