

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :								
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	10903796					
Frame	: 326T	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	: 244 kg					
Protection degree	: IP23	Moment of inertia (J)	: 0.4126 kgm ²					
Design	: B							
Output [HP]	30	25	25	25	30	30	30	
Poles	6	6	6	6	6	6	6	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	230/460	380	400	415	380	400	415	
Rated current [A]	72.0/36.0	36.5	35.8	35.4	42.9	41.4	40.4	
L. R. Amperes [A]	446/223	266	258	252	266	257	250	
LRC [A]	6.2x(Code G)	7.3x(Code H)	7.2x(Code J)	7.1x(Code J)	6.2x(Code G)	6.2x(Code G)	6.2x(Code G)	
No load current [A]	30.0/15.0	14.8	16.1	17.4	14.8	16.1	17.4	
Rated speed [RPM]	1180	980	980	980	975	980	980	
Slip [%]	1.67	2.00	2.00	2.00	2.50	2.00	2.00	
Rated torque [kgfm]	18.5	18.5	18.5	18.5	22.3	22.2	22.2	
Locked rotor torque [%]	220	210	229	250	170	190	204	
Breakdown torque [%]	270	280	290	310	229	240	260	
Service factor	1.15	1.15	1.15	1.15	1.15	1.15	1.15	
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K	
Locked rotor time	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	30s (cold) 17s (hot)	
Noise level ²	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	60.0 dB(A)	
Efficiency (%)	25%	91.0	89.9	88.4	88.2	91.5	90.2	90.2
	50%	91.7	90.3	89.3	89.1	91.7	91.0	91.0
	75%	93.0	91.9	91.6	91.6	91.7	91.7	91.7
	100%	93.6	92.0	92.3	92.3	91.7	92.4	92.4
Power Factor	25%	0.41	0.42	0.39	0.35	0.47	0.44	0.40
	50%	0.65	0.66	0.62	0.58	0.71	0.67	0.64
	75%	0.77	0.77	0.74	0.71	0.81	0.79	0.76
	100%	0.82	0.83	0.80	0.78	0.85	0.83	0.82
Bearing type	: 6312 Z C3	6212 Z C3	Foundation loads					
Sealing	: Without	Without	Max. traction	: 605 kgf				
	Bearing Seal	Bearing Seal	Max. compression	: 849 kgf				
Lubrication interval	: 20000 h	20000 h						
Lubricant amount	: 21 g	13 g						
Lubricant type	: Mobil Polyrex EM							
Notes								
USABLE @208V 79.6A SF 1.15 SFA 91.6A								
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	05/02/2024					1 / 8		

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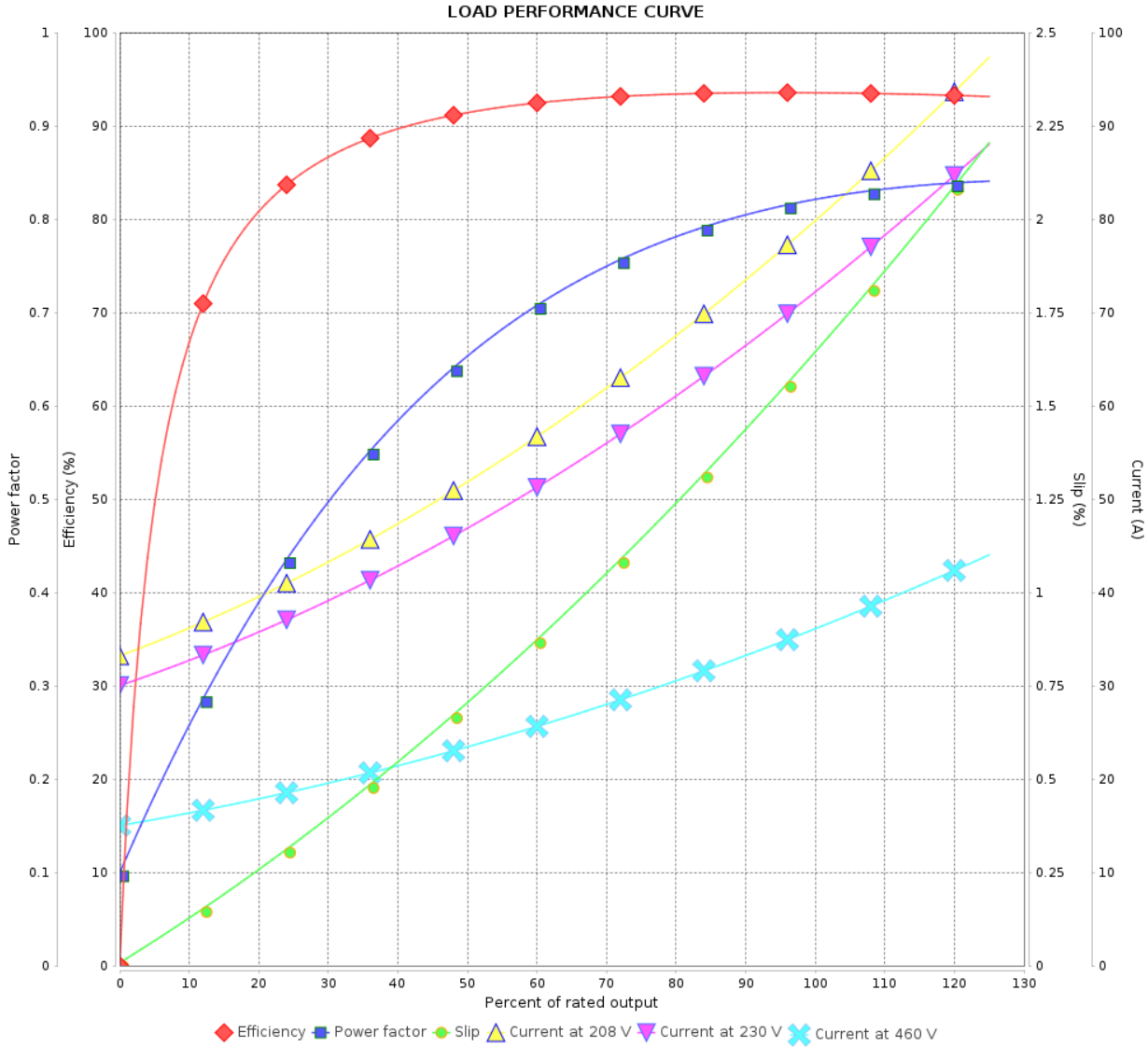
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10903796



Performance : 230/460 V 60 Hz 6P

Rated current : 72.0/36.0 A
 LRC : 6.2
 Rated torque : 18.5 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 270 %
 Rated speed : 1180 rpm

Moment of inertia (J) : 0.4126 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 2 / 8	Revision
Checked by				
Date	05/02/2024			

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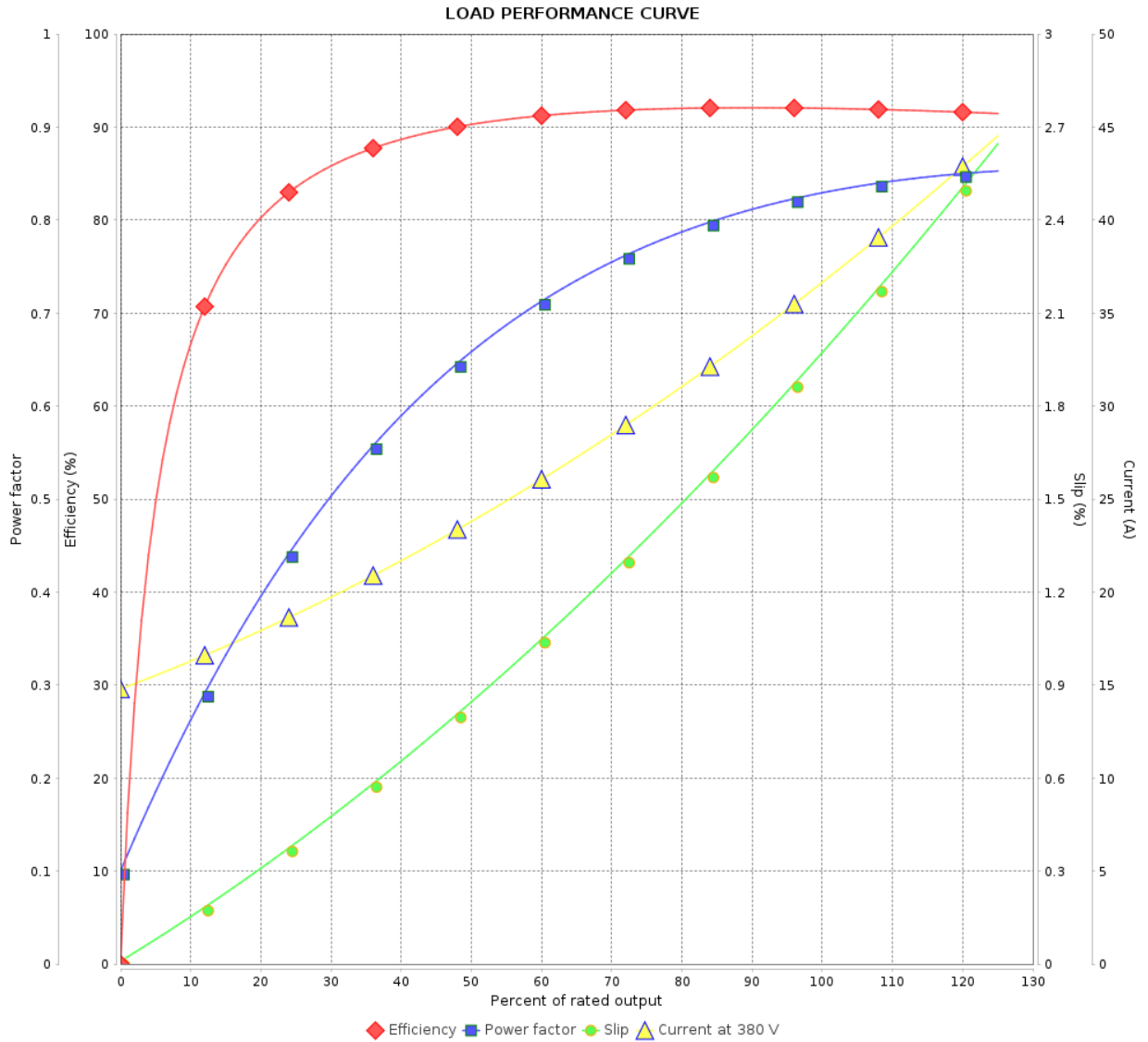
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10903796



Performance : 380 V 50 Hz 6P IE3

Rated current : 36.5 A
 LRC : 7.3
 Rated torque : 18.5 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 280 %
 Rated speed : 980 rpm

Moment of inertia (J) : 0.4126 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 / 8	Revision
Checked by				
Date	05/02/2024			

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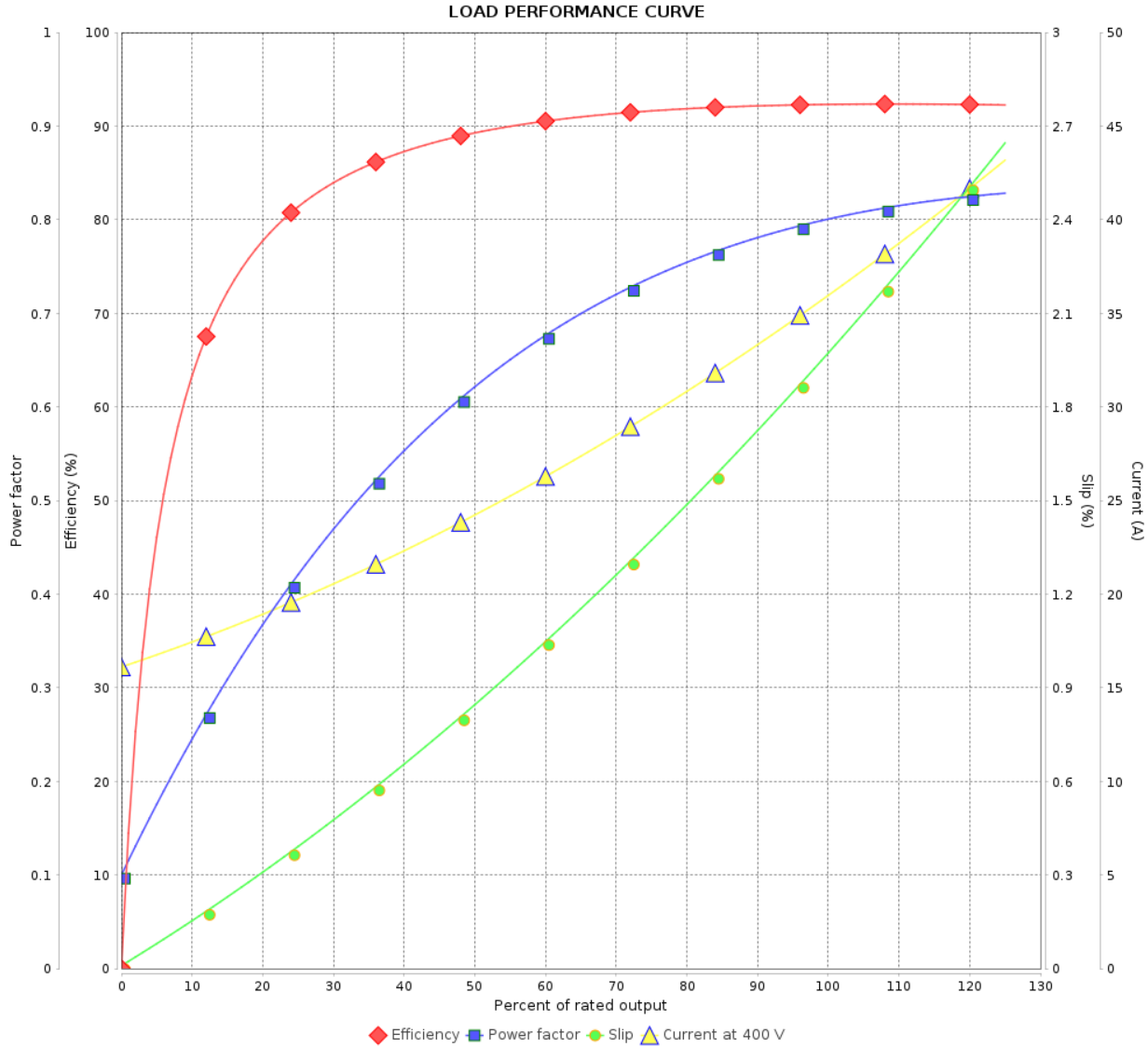
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10903796



Performance : 400 V 50 Hz 6P IE3

Rated current : 35.8 A
 LRC : 7.2
 Rated torque : 18.5 kgfm
 Locked rotor torque : 229 %
 Breakdown torque : 290 %
 Rated speed : 980 rpm

Moment of inertia (J) : 0.4126 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	Revision
Checked by				
Date				

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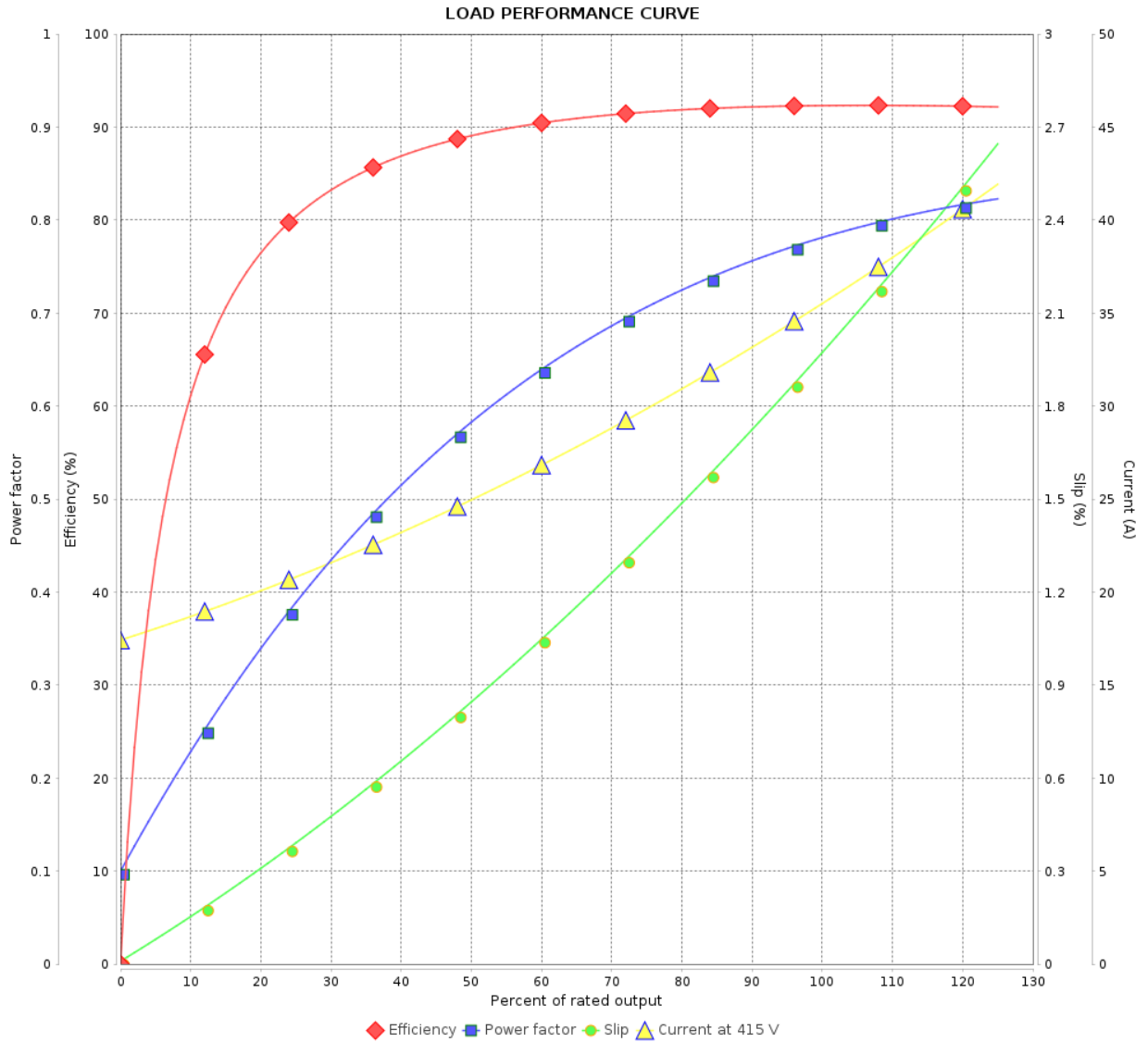
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10903796



Performance : 415 V 50 Hz 6P IE3

Rated current : 35.4 A
 LRC : 7.1
 Rated torque : 18.5 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 310 %
 Rated speed : 980 rpm

Moment of inertia (J) : 0.4126 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		Revision
Checked by		5 / 8		
Date		05/02/2024		

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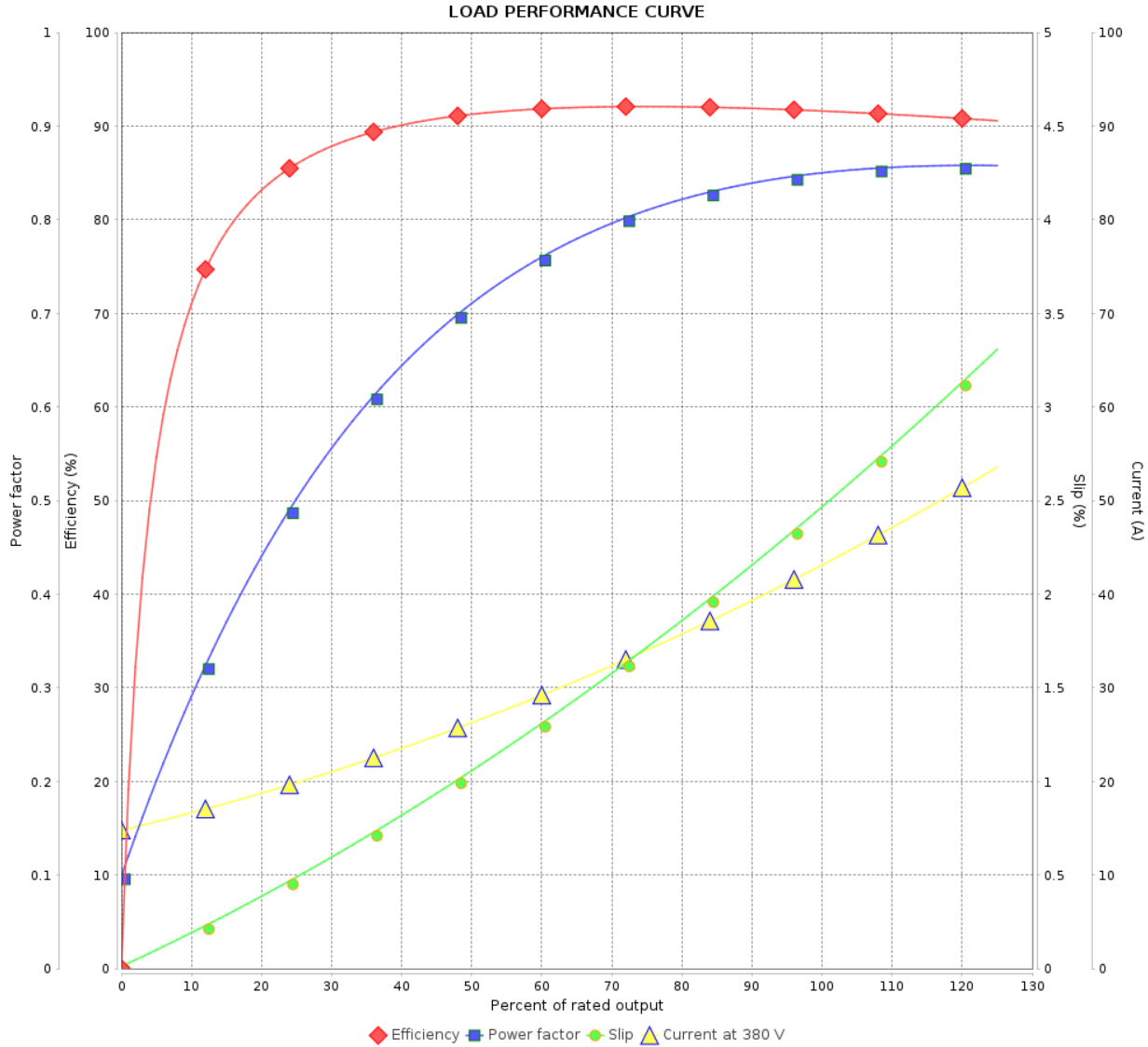
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10903796



Performance : 380 V 50 Hz 6P IE2

Rated current : 42.9 A
 LRC : 6.2
 Rated torque : 22.3 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 229 %
 Rated speed : 975 rpm

Moment of inertia (J) : 0.4126 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 6 / 8	Revision
Checked by				
Date	05/02/2024			

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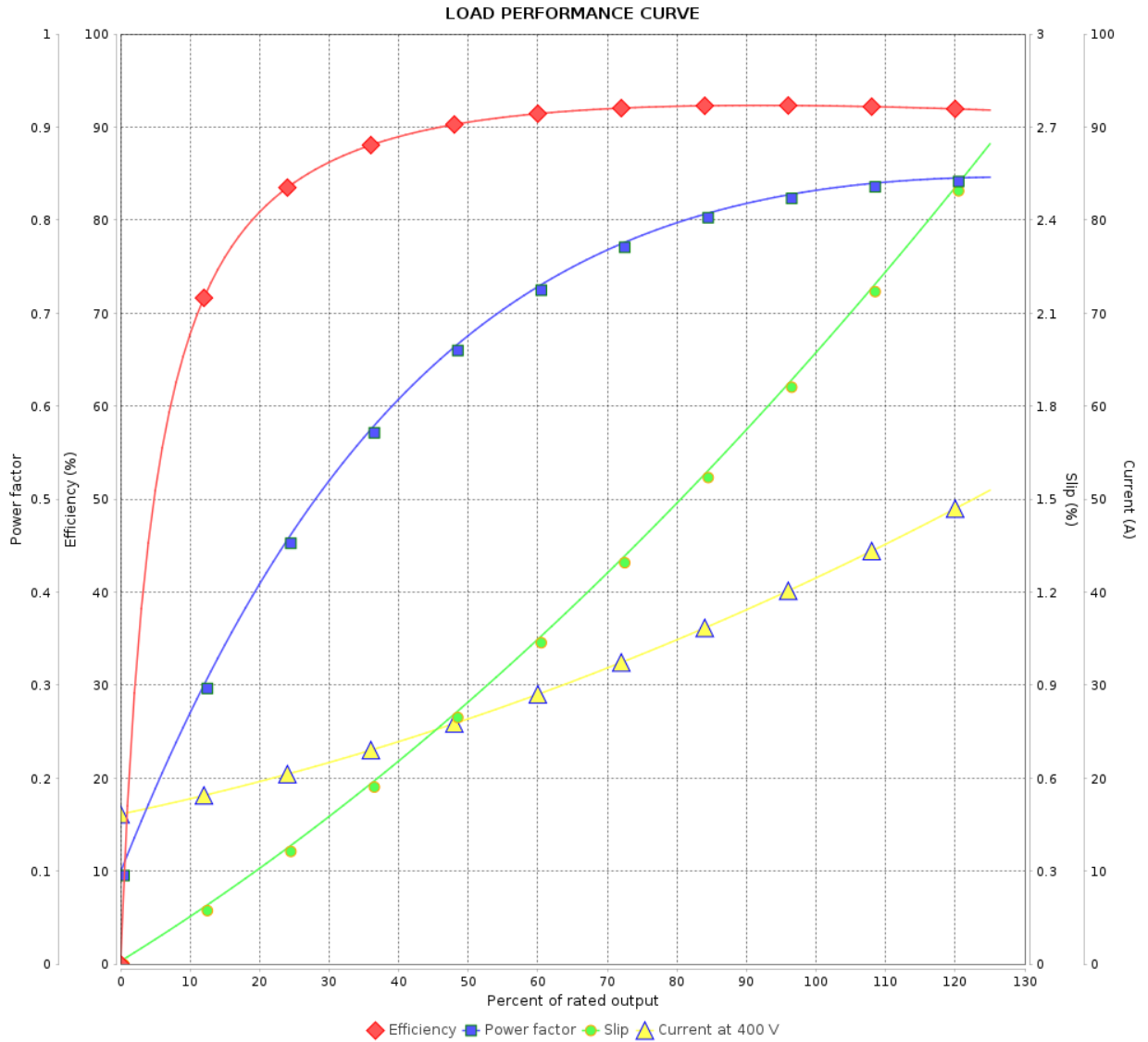
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10903796



Performance : 400 V 50 Hz 6P IE3

Rated current : 41.4 A
 LRC : 6.2
 Rated torque : 22.2 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 240 %
 Rated speed : 980 rpm

Moment of inertia (J) : 0.4126 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		Revision
Checked by		7 / 8		
Date		05/02/2024		

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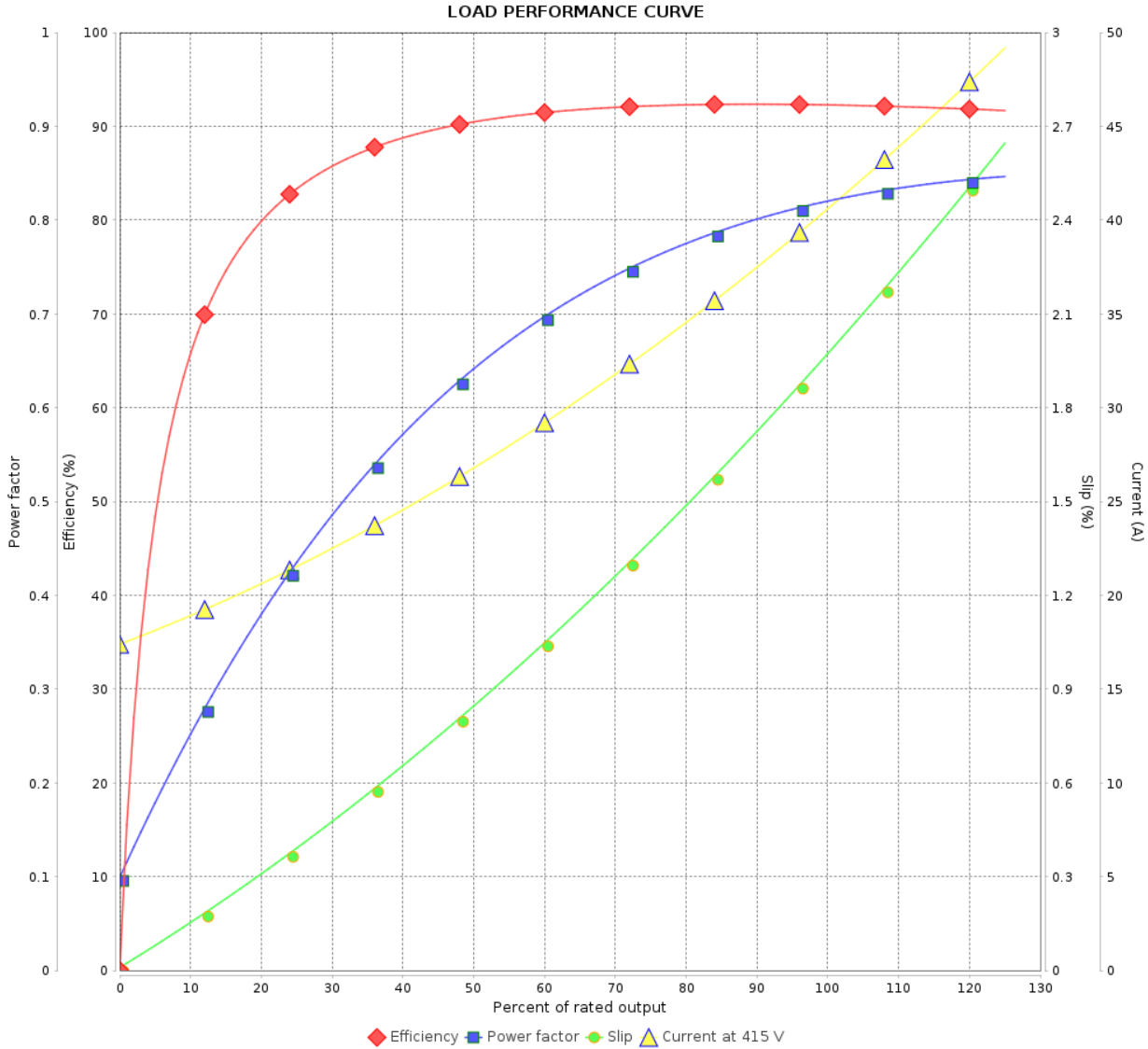
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10903796



Performance : 415 V 50 Hz 6P IE3

Rated current : 40.4 A
 LRC : 6.2
 Rated torque : 22.2 kgfm
 Locked rotor torque : 204 %
 Breakdown torque : 260 %
 Rated speed : 980 rpm

Moment of inertia (J) : 0.4126 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor : 1.15
 Temperature rise : 80 K
 Design : B

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