

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase Product code : 10360053

Frame	: 286T	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 ²	: 187 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.2063 kgm ²
Design	: B		

Output [HP]	30	25	25	25	30	30	30	
Poles	4	4	4	4	4	4	4	
Frequency [Hz]	60	50	50	50	50	50	50	
Rated voltage [V]	230/460	380	400	415	380	400	415	
Rated current [A]	69.8/34.9	35.7	34.7	34.3	42.9	41.4	40.1	
L. R. Amperes [A]	461/230	246	250	244	215	232	245	
LRC [A]	6.6x(Code G)	6.9x(Code H)	7.2x(Code H)	7.1x(Code H)	5.0x(Code E)	5.6x(Code F)	6.1x(Code G)	
No load current [A]	24.2/12.1	12.0	14.0	13.5	11.7	12.6	13.2	
Rated speed [RPM]	1770	1470	1470	1475	1460	1465	1468	
Slip [%]	1.67	2.00	2.00	1.67	2.67	2.33	2.13	
Rated torque [kgfm]	12.3	12.3	12.3	12.3	14.9	14.9	14.8	
Locked rotor torque [%]	240	220	250	270	170	190	210	
Breakdown torque [%]	270	240	270	300	200	220	240	
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	25s (cold) 14s (hot)	30s (cold) 17s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	30s (cold) 17s (hot)	27s (cold) 15s (hot)	25s (cold) 14s (hot)	
Noise level ²	63.0 dB(A)							
Efficiency (%)	25%	93.4	92.0	92.0	92.0	92.1	91.5	91.0
	50%	93.6	92.2	92.2	92.2	91.7	91.7	91.7
	75%	94.1	92.6	92.6	92.6	92.4	92.4	92.4
	100%	94.1	92.6	92.6	92.6	91.7	92.4	93.0
Power Factor	25%	0.46	0.47	0.42	0.40	0.53	0.48	0.45
	50%	0.70	0.70	0.66	0.63	0.74	0.70	0.66
	75%	0.80	0.80	0.78	0.75	0.83	0.80	0.78
	100%	0.84	0.85	0.83	0.81	0.85	0.83	0.82

Bearing type	Drive end	Non drive end	Foundation loads
	: 6311 Z C3	: 6211 Z C3	
Sealing	Without	Without	Max. compression : 603 kgf
	Bearing Seal	Bearing Seal	
Lubrication interval	: 20000 h		
Lubricant amount	: 18 g		
Lubricant type	: Mobil Polyrex EM		

Notes
USABLE @208V 78.3A SF 1.15 SFA 90.0A

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			Page	Revision
Checked by				
Date				

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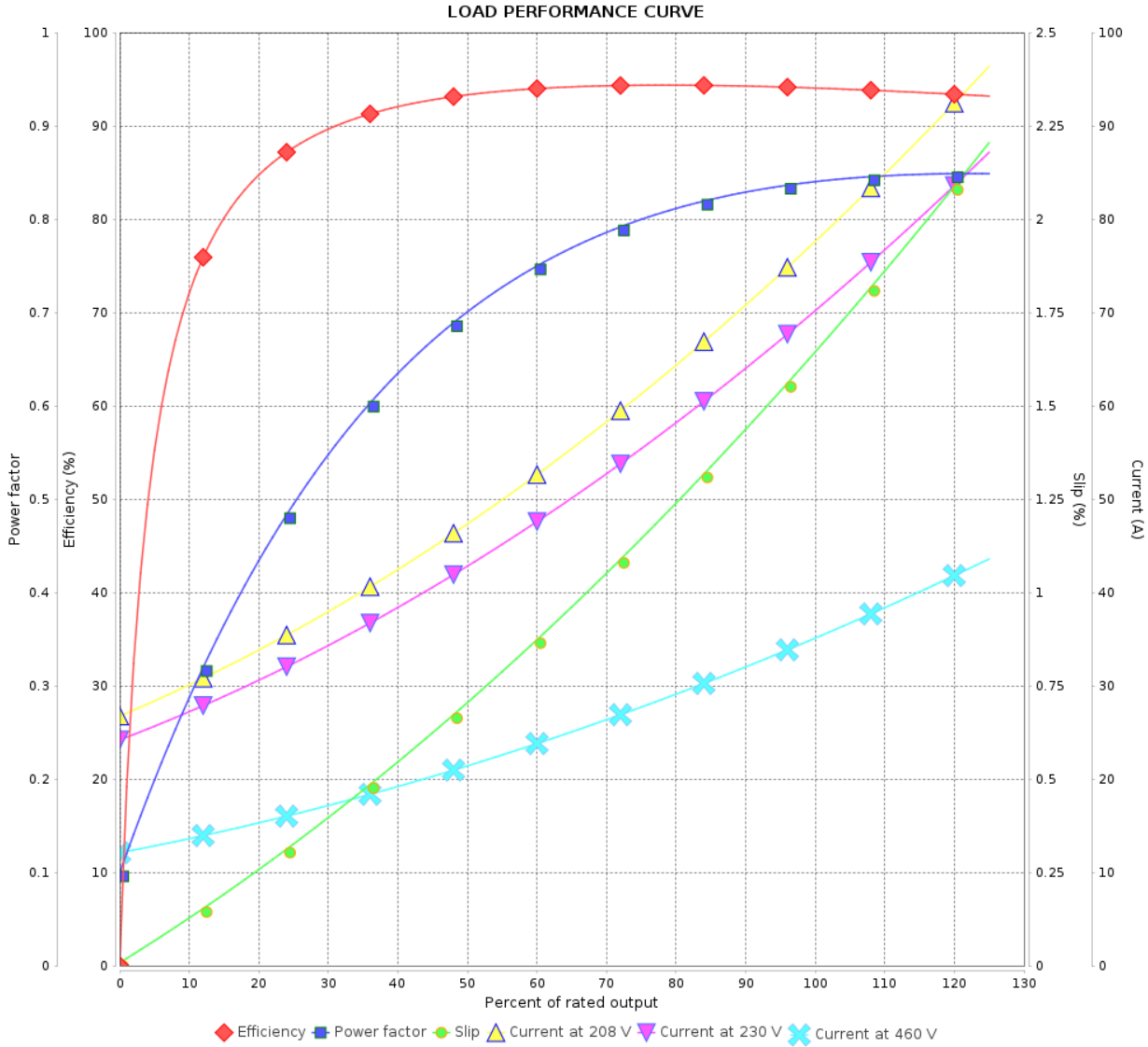
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10360053



Performance : 230/460 V 60 Hz 4P

Rated current : 69.8/34.9 A
 LRC : 6.6
 Rated torque : 12.3 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 270 %
 Rated speed : 1770 rpm

Moment of inertia (J) : 0.2063 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		2 / 8		
Date		05/02/2024		

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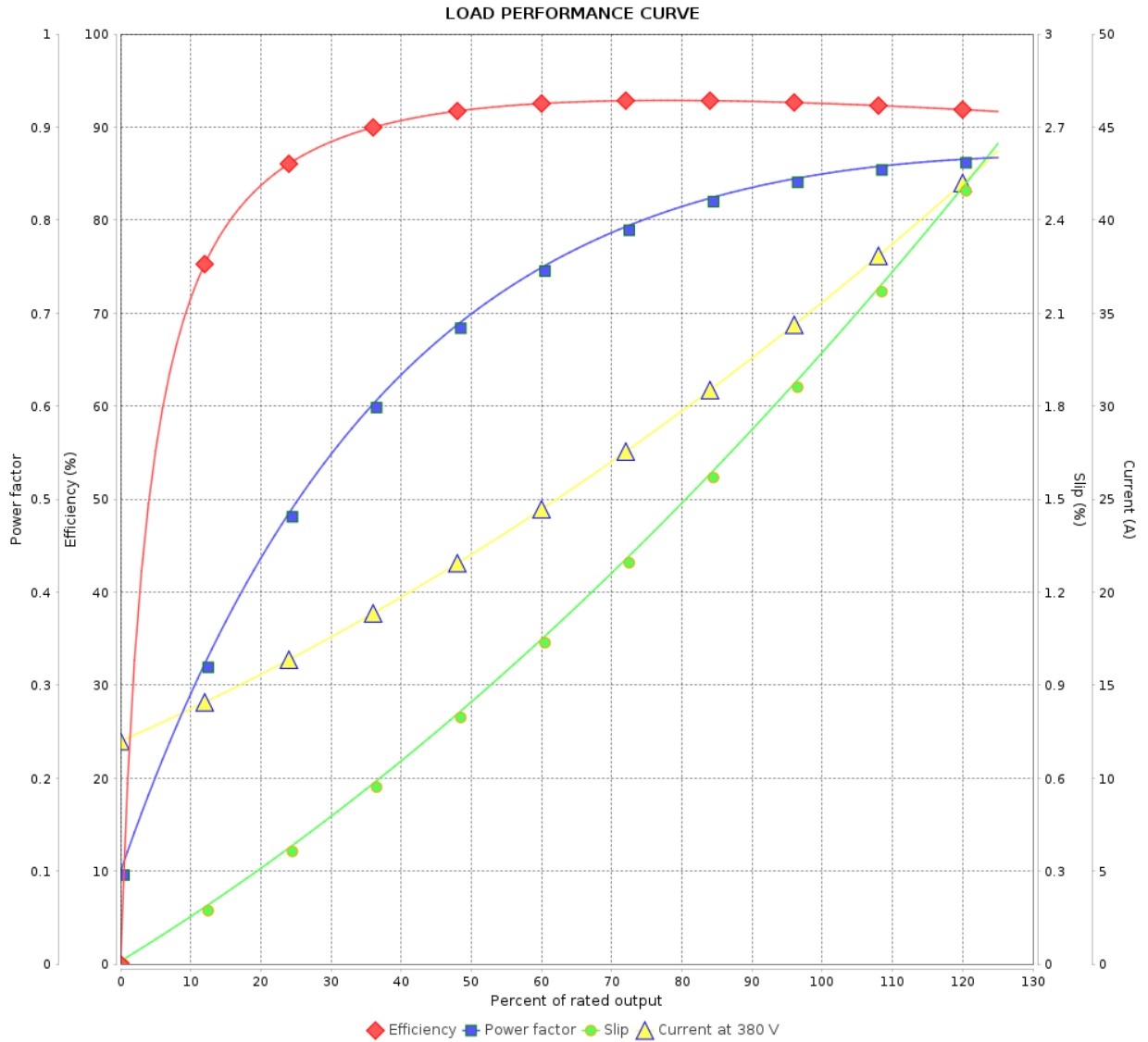
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10360053



Performance : 380 V 50 Hz 4P IE3

Rated current : 35.7 A
 LRC : 6.9
 Rated torque : 12.3 kgfm
 Locked rotor torque : 220 %
 Breakdown torque : 240 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.2063 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				
			3 / 8	

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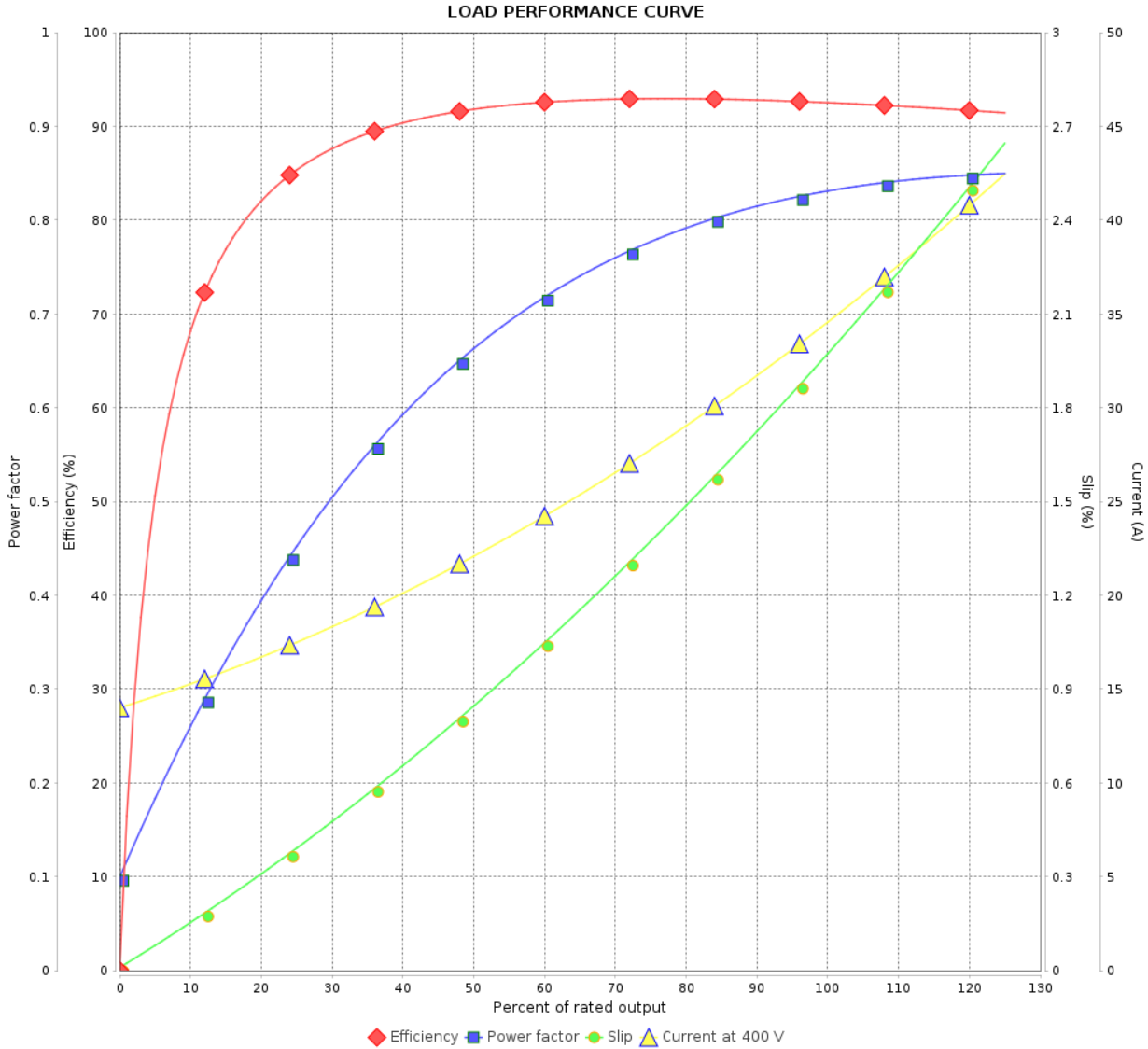
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10360053



Performance : 400 V 50 Hz 4P IE3

Rated current : 34.7 A
 LRC : 7.2
 Rated torque : 12.3 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 270 %
 Rated speed : 1470 rpm

Moment of inertia (J) : 0.2063 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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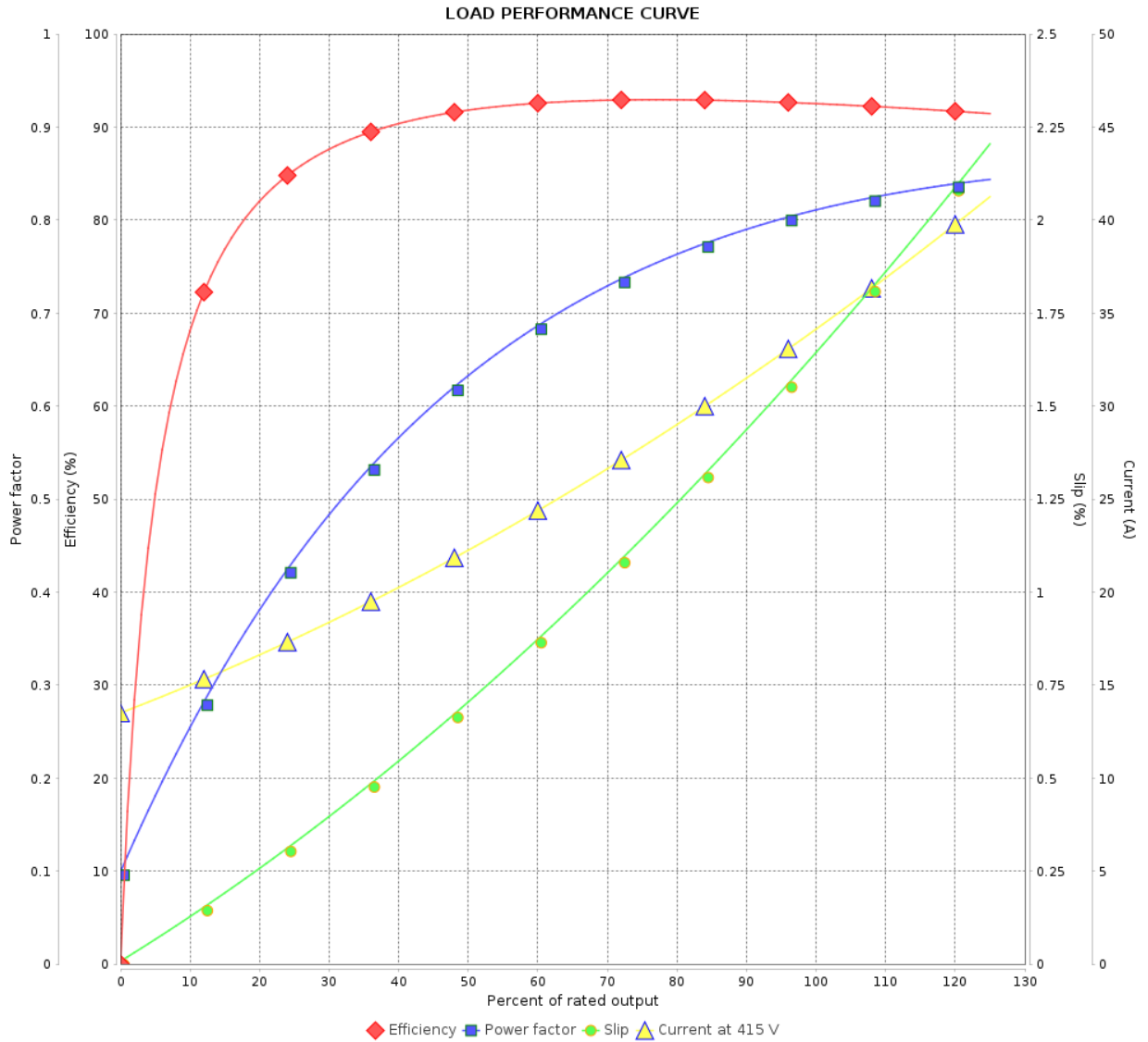
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10360053



Performance : 415 V 50 Hz 4P IE3

Rated current : 34.3 A
 LRC : 7.1
 Rated torque : 12.3 kgfm
 Locked rotor torque : 270 %
 Breakdown torque : 300 %
 Rated speed : 1475 rpm

Moment of inertia (J) : 0.2063 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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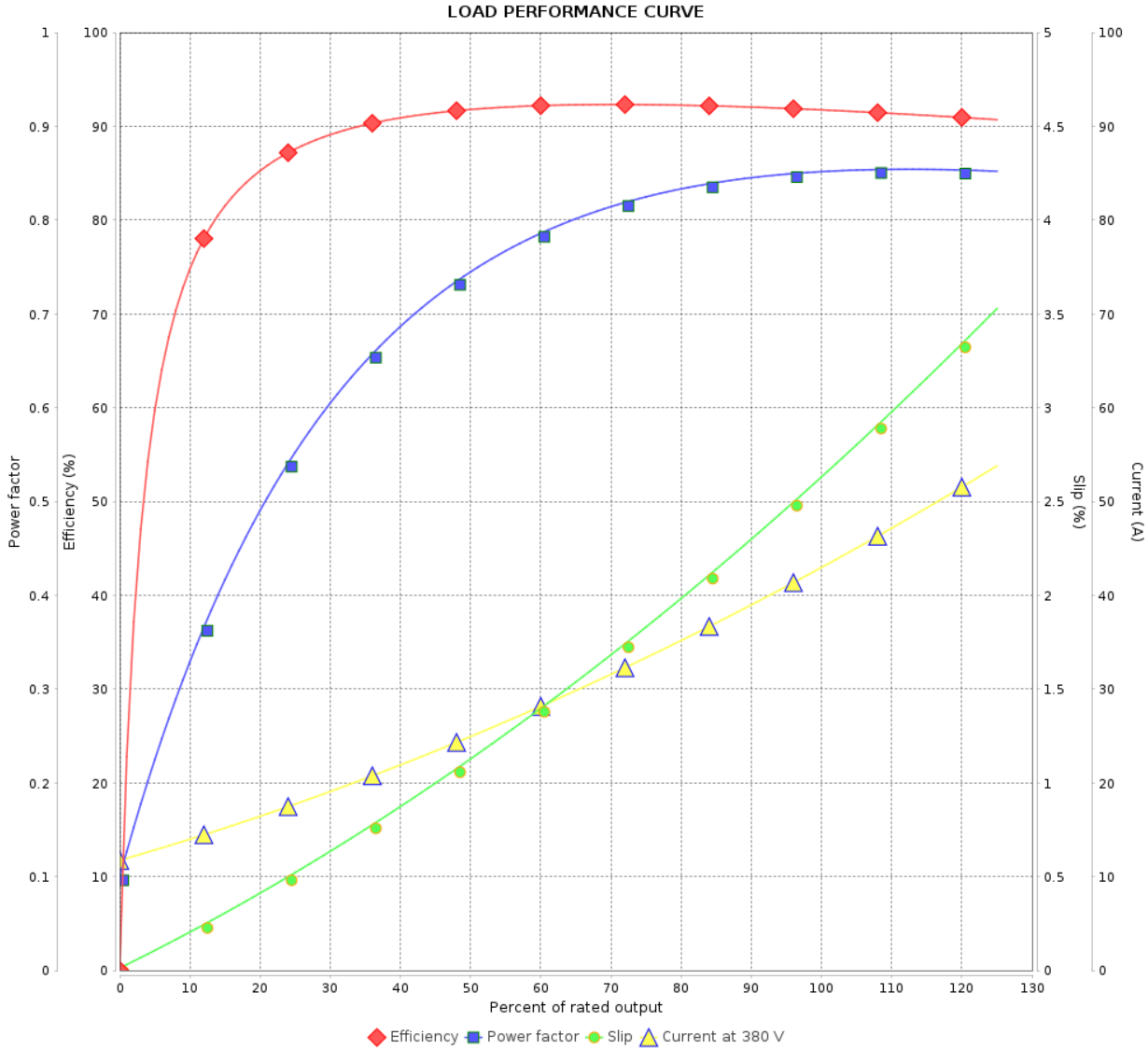
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10360053



Performance : 380 V 50 Hz 4P IE2

Rated current : 42.9 A
 LRC : 5.0
 Rated torque : 14.9 kgfm
 Locked rotor torque : 170 %
 Breakdown torque : 200 %
 Rated speed : 1460 rpm

Moment of inertia (J) : 0.2063 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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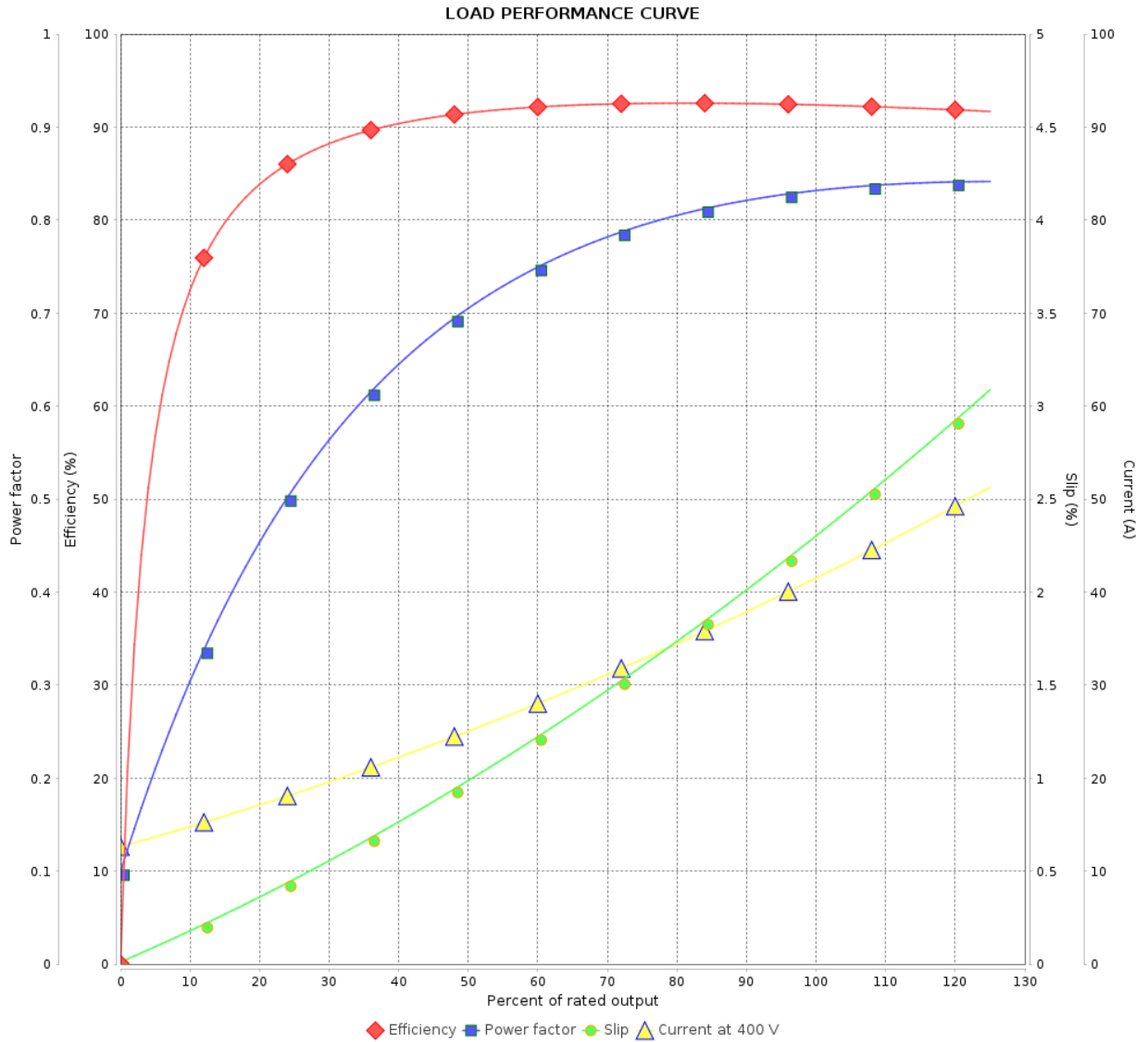
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10360053



Performance : 400 V 50 Hz 4P IE2

Rated current : 41.4 A
 LRC : 5.6
 Rated torque : 14.9 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 220 %
 Rated speed : 1465 rpm

Moment of inertia (J) : 0.2063 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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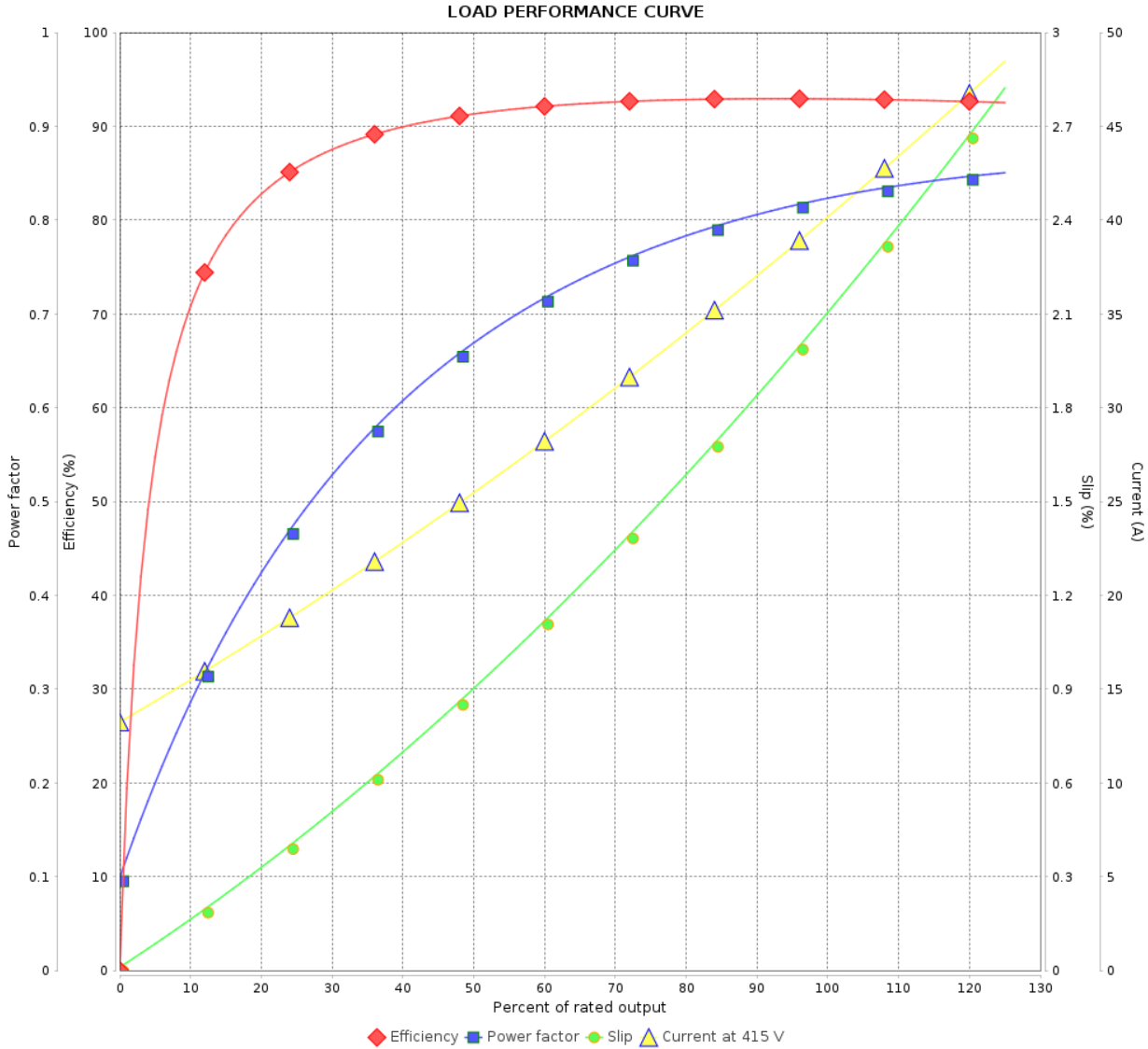
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10360053



Performance : 415 V 50 Hz 4P IE3

Rated current : 40.1 A
 LRC : 6.1
 Rated torque : 14.8 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 240 %
 Rated speed : 1468 rpm

Moment of inertia (J) : 0.2063 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 8 / 8	Revision
Checked by				
Date	05/02/2024			