

DATA SHEET



Three Phase Induction Motor - Squirrel Cage

Customer :							
Product line : ODP NEMA Premium Efficiency Three-Phase				Product code : 11087164			
Frame : 444/5TC 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 ² : 680 kg Moment of inertia (J) : 2.09 kgm ²			
Output [HP]	200	175	175	175	200	200	200
Poles	4	4	4	4	4	4	4
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	460	380	400	415	380	400	415
Rated current [A]	229	250	240	237	286	275	265
L. R. Amperes [A]	1397	1575	1680	1778	1602	1705	1776
LRC [A]	6.1x(Code F)	6.3x(Code G)	7.0x(Code H)	7.5x(Code J)	5.6x(Code F)	6.2x(Code G)	6.7x(Code H)
No load current [A]	75.0	91.5	101	111	91.5	101	111
Rated speed [RPM]	1780	1480	1480	1485	1480	1480	1485
Slip [%]	1.11	1.33	1.33	1.00	1.33	1.33	1.00
Rated torque [kgfm]	81.5	85.8	85.8	85.5	98.1	98.1	97.7
Locked rotor torque [%]	200	210	220	240	180	190	210
Breakdown torque [%]	229	250	290	320	220	250	280
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	28s (cold) 16s (hot)	23s (cold) 13s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)	23s (cold) 13s (hot)	21s (cold) 12s (hot)	19s (cold) 11s (hot)
Noise level ²	78.0 dB(A)						
Efficiency (%)	25%						
	50%	95.4	92.5	92.6	92.6	93.4	93.4
	75%	95.8	94.0	94.2	94.2	93.6	93.6
	100%	95.8	95.6	95.6	95.6	93.7	93.6
Power Factor	25%						
	50%	0.76	0.71	0.67	0.63	0.76	0.72
	75%	0.83	0.81	0.78	0.75	0.82	0.80
	100%	0.86	0.84	0.83	0.81	0.85	0.84
Bearing type	Drive end : 6319 C3		Non drive end : 6316 C3		Foundation loads		
Sealing	Without		Without		Max. traction : 2054 kgf		
	Bearing Seal		Bearing Seal		Max. compression : 2734 kgf		
Lubrication interval	20000 h		20000 h				
Lubricant amount	45 g		34 g				
Lubricant type	Mobil Polyrex EM						
Notes							
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	04/05/2024					1 / 8	

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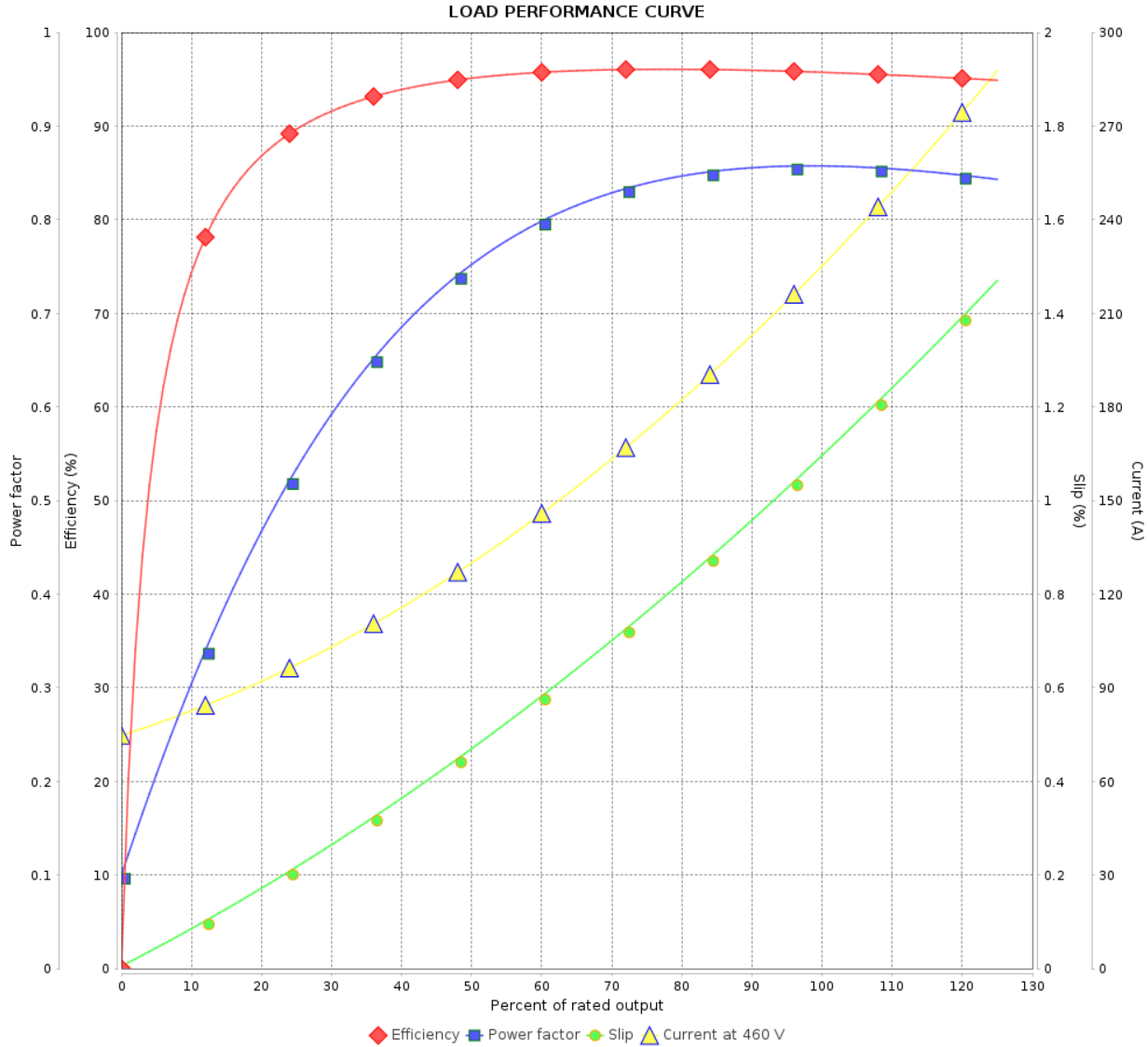
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11087164



Performance : 460 V 60 Hz 4P

Rated current	: 229 A	Moment of inertia (J)	: 2.09 kgm ²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 81.5 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.15
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 2 / 8	Revision
Checked by				
Date	04/05/2024			

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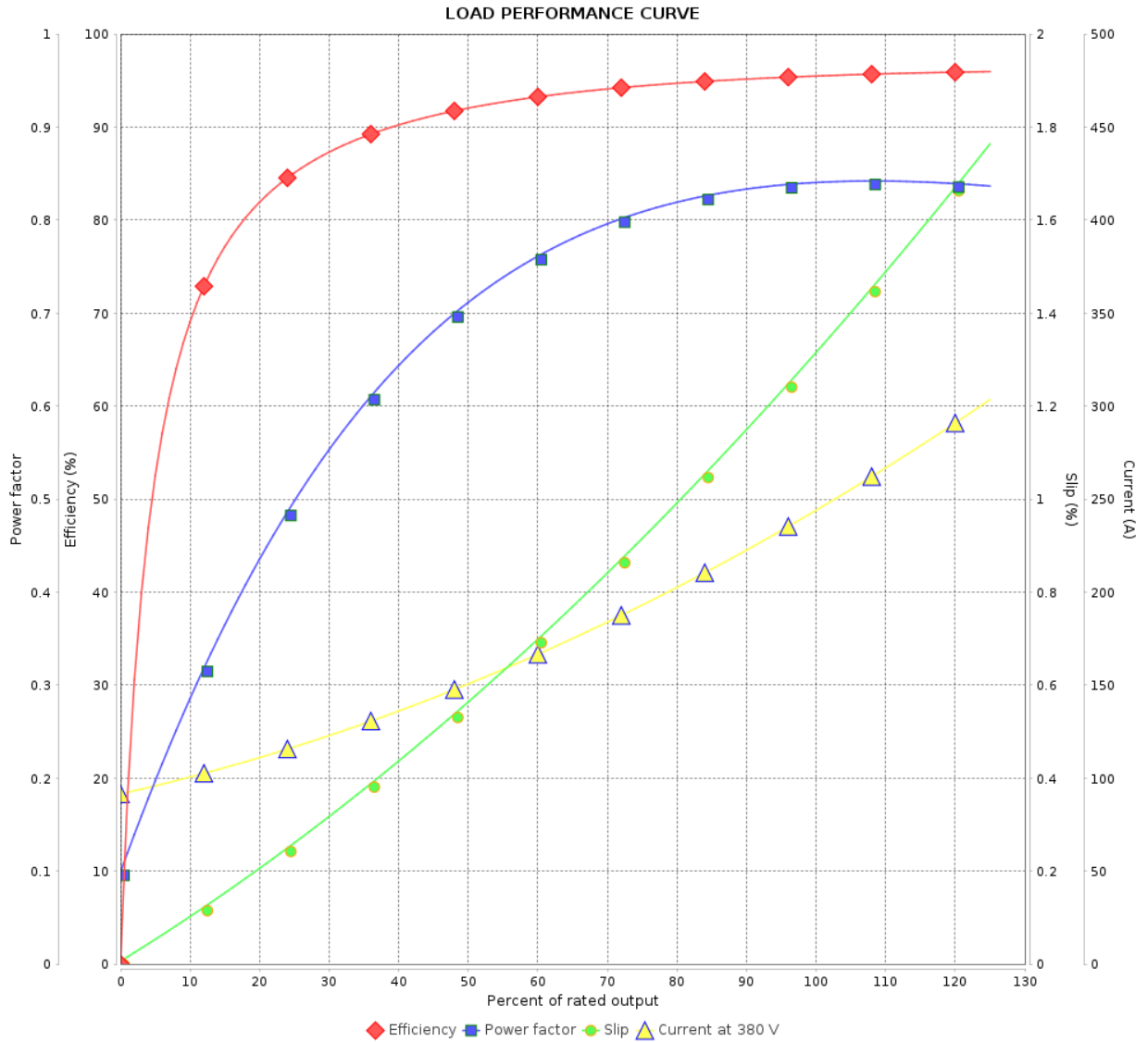
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11087164



Performance : 380 V 50 Hz 4P IE3

Rated current : 250 A
 LRC : 6.3
 Rated torque : 85.8 kgfm
 Locked rotor torque : 210 %
 Breakdown torque : 250 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 2.09 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	04/05/2024			

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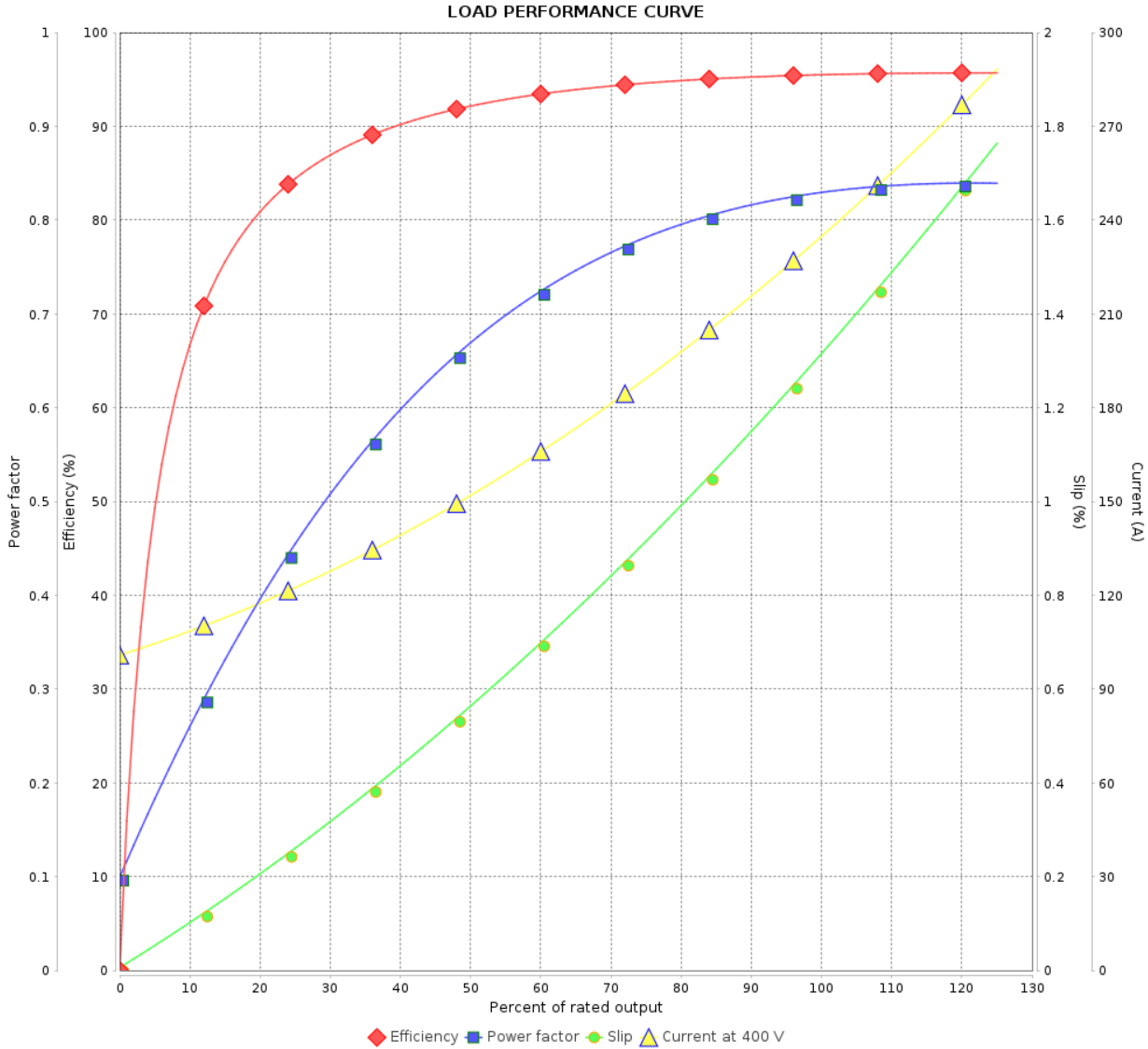
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11087164



Performance : 400 V 50 Hz 4P IE3

Rated current	: 240 A	Moment of inertia (J)	: 2.09 kgm ²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 85.8 kgfm	Insulation class	: F
Locked rotor torque	: 220 %	Service factor	: 1.15
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 4 / 8	Revision
Checked by				
Date	04/05/2024			

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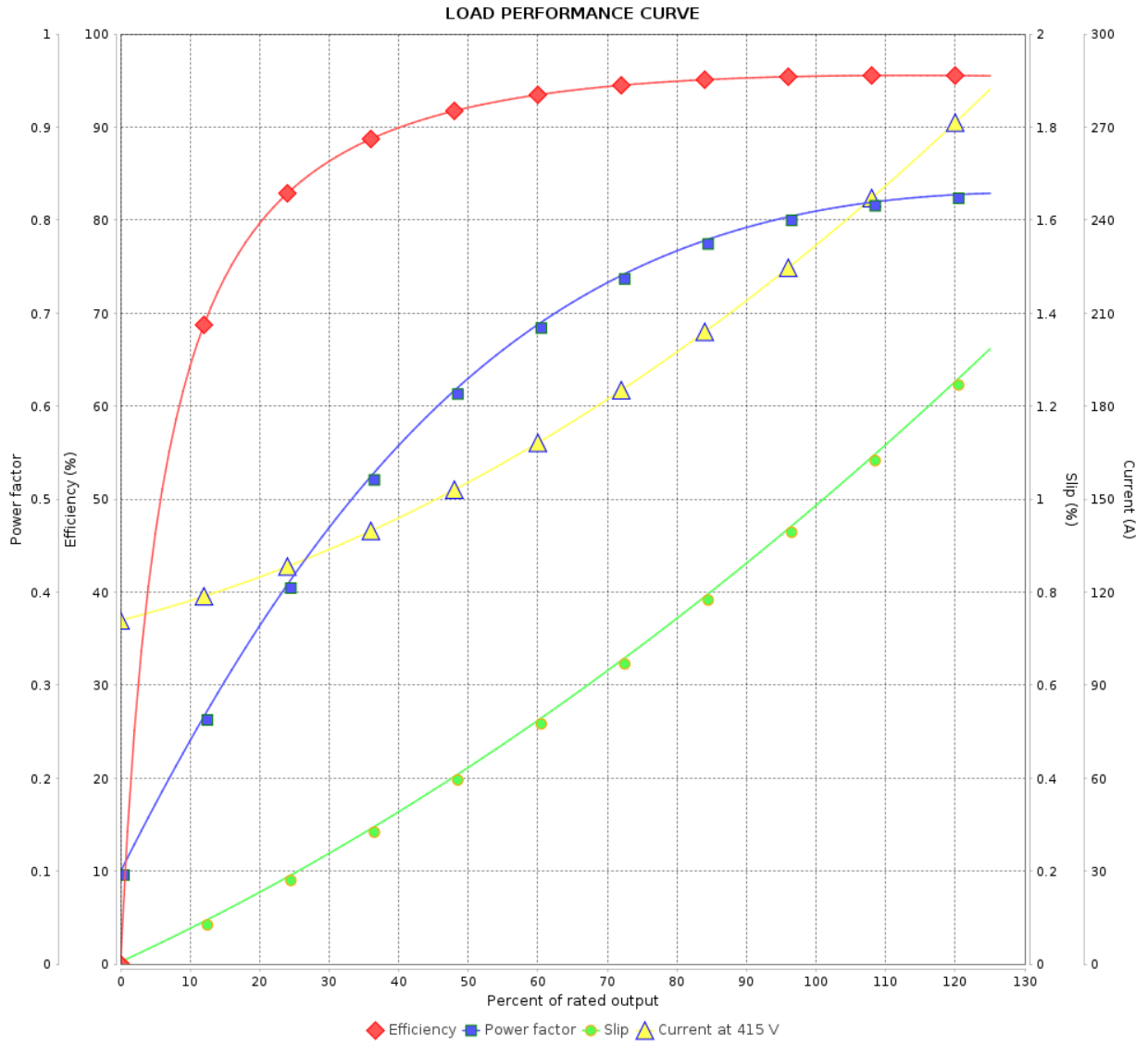
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11087164



Performance : 415 V 50 Hz 4P IE3

Rated current : 237 A
 LRC : 7.5
 Rated torque : 85.5 kgfm
 Locked rotor torque : 240 %
 Breakdown torque : 320 %
 Rated speed : 1485 rpm

Moment of inertia (J) : 2.09 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		04/05/2024		

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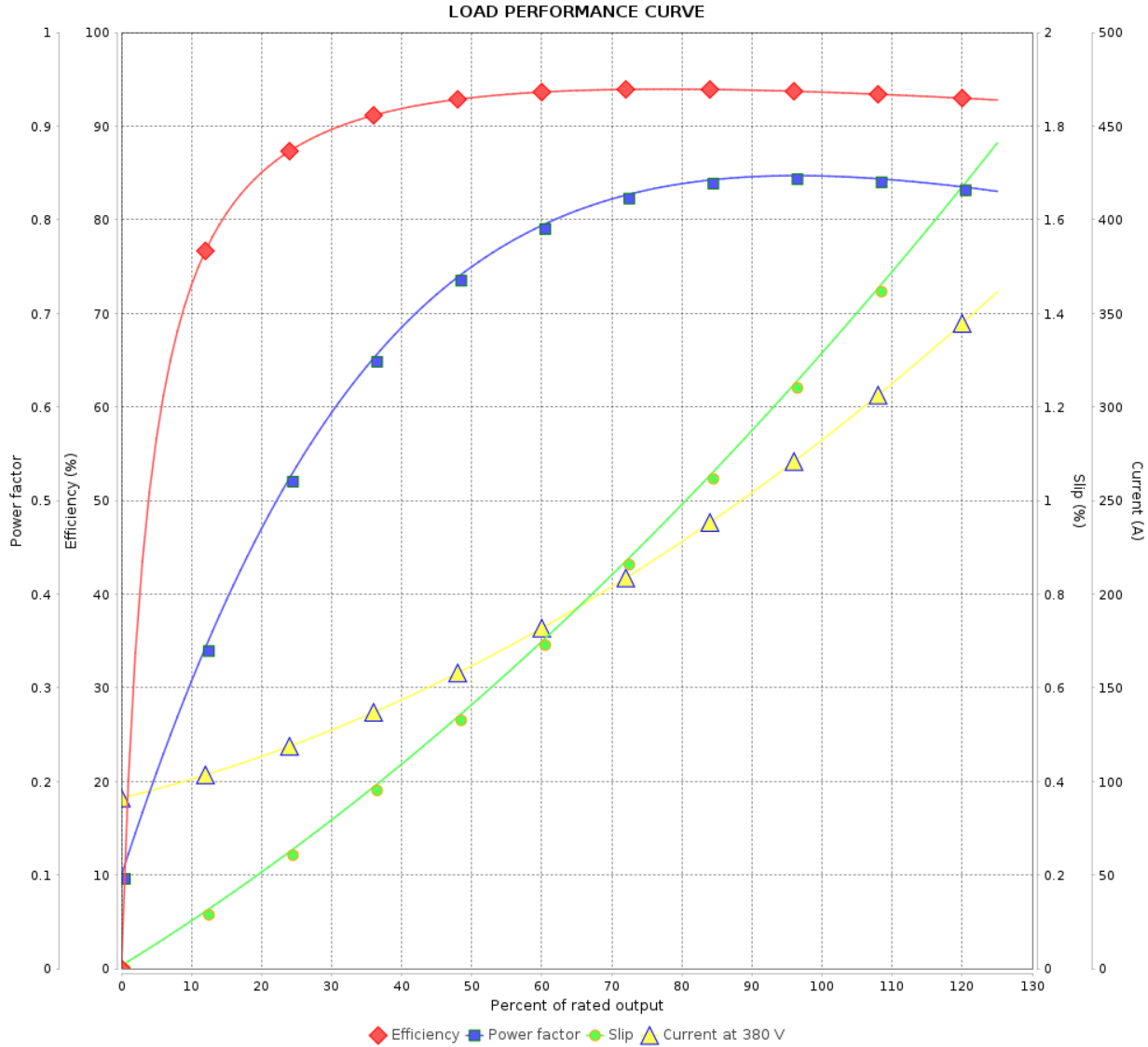
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11087164



Performance : 380 V 50 Hz 4P

Rated current	: 286 A	Moment of inertia (J)	: 2.09 kgm ²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 98.1 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.15
Breakdown torque	: 220 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 8	Revision
Checked by				
Date	04/05/2024			

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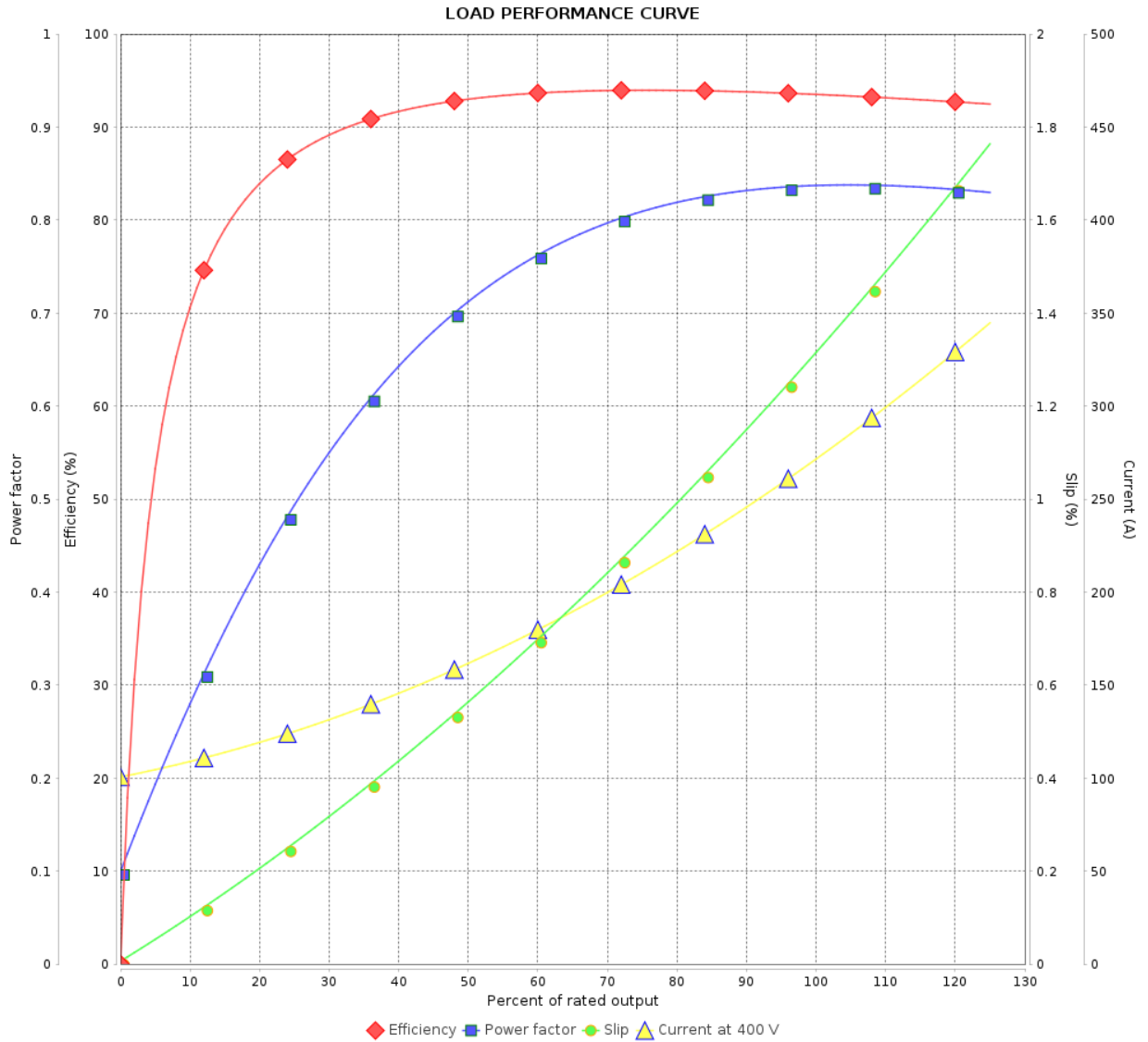
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11087164



Performance : 400 V 50 Hz 4P

Rated current : 275 A
 LRC : 6.2
 Rated torque : 98.1 kgfm
 Locked rotor torque : 190 %
 Breakdown torque : 250 %
 Rated speed : 1480 rpm

Moment of inertia (J) : 2.09 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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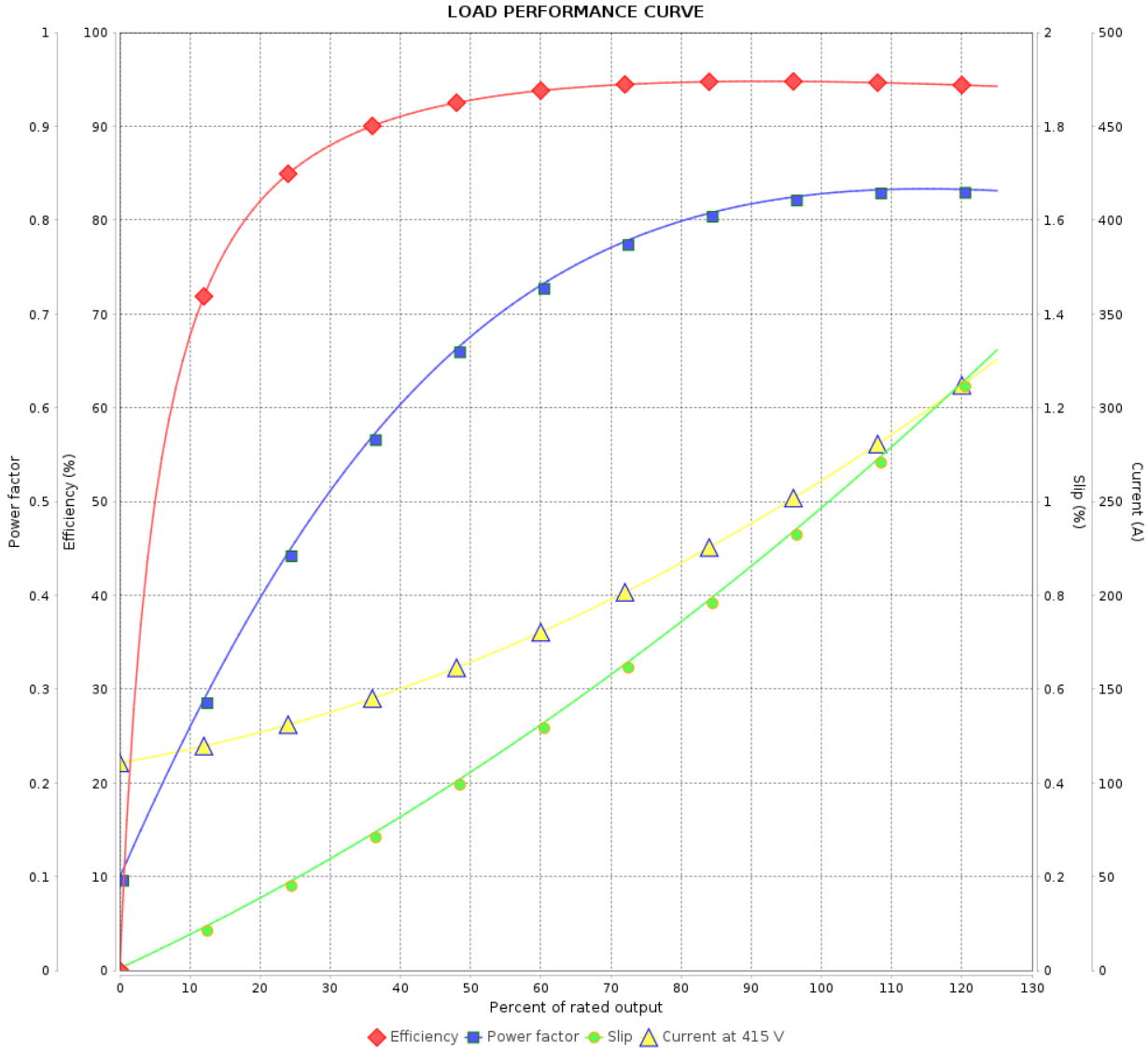
Three Phase Induction Motor - Squirrel Cage



Customer : _____

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 11087164



Performance : 415 V 50 Hz 4P IE2

Rated current	: 265 A	Moment of inertia (J)	: 2.09 kgm ²
LRC	: 6.7	Duty cycle	: Cont.(S1)
Rated torque	: 97.7 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.15
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 8 / 8	Revision
Checked by				
Date	04/05/2024			