

# DATA SHEET



## Three Phase Induction Motor - Squirrel Cage

Customer :								
Product line	: ODP NEMA Premium Efficiency Three-Phase	Product code :	10849092					
Frame	: 404/5T	Cooling method	: IC01 - ODP					
Insulation class	: F	Mounting	: F-1					
Duty cycle	: Cont.(S1)	Rotation <sup>1</sup>	: Both (CW and CCW)					
Ambient temperature	: -20°C to +40°C	Starting method	: Direct On Line					
Altitude	: 1000 m.a.s.l.	Approx. weight <sup>3</sup>	: 488 kg					
Protection degree	: IP23	Moment of inertia (J)	: 1.12 kgm <sup>2</sup>					
Design	: B							
Output [HP]	125	100	100	100	125	125	125	
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]	272/136	138	136	134	165	159	154	
L. R. Amperes [A]	1904/952	925	1006	1059	891	970	1016	
LRC [A]	7.0x(Code G)	6.7x(Code G)	7.4x(Code H)	7.9x(Code J)	5.4x(Code E)	6.1x(Code F)	6.6x(Code G)	
No load current [A]	82.0/41.0	42.7	47.1	51.6	42.7	47.1	51.6	
Rated speed [RPM]	1780	1475	1480	1485	1470	1475	1480	
Slip [%]	1.11	1.67	1.33	1.00	2.00	1.67	1.33	
Rated torque [kgfm]	51.0	49.2	49.0	48.9	61.7	61.5	61.3	
Locked rotor torque [%]	240	300	330	350	240	260	280	
Breakdown torque [%]	250	260	290	310	210	229	250	
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	18s (cold) 10s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	16s (cold) 9s (hot)	14s (cold) 8s (hot)	14s (cold) 8s (hot)	
Noise level <sup>2</sup>	69.0 dB(A)							
Efficiency (%)	25%	94.9	92.3	92.2	91.5	93.9	93.9	93.6
	50%	95.0	93.2	93.0	92.4	94.1	94.1	94.1
	75%	95.4	94.2	94.3	94.2	94.1	94.1	94.1
	100%	95.4	95.0	95.0	95.0	94.2	94.2	94.5
Power Factor	25%	0.53	0.49	0.45	0.41	0.56	0.51	0.47
	50%	0.76	0.72	0.68	0.63	0.78	0.74	0.70
	75%	0.85	0.82	0.78	0.75	0.86	0.83	0.80
	100%	0.87	0.87	0.84	0.82	0.88	0.87	0.86
Bearing type	: Drive end : 6316 C3	Non drive end : 6314 C3	Foundation loads					
Sealing	: Without	Without	Max. traction : 1264 kgf					
	Bearing Seal Bearing Seal		Max. compression : 1752 kgf					
Lubrication interval	: 20000 h	20000 h						
Lubricant amount	: 34 g	27 g						
Lubricant type	: Mobil Polyrex EM							
Notes USABLE @208V 301A SF 1.15 SFA 346A								
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		

# LOAD PERFORMANCE CURVE

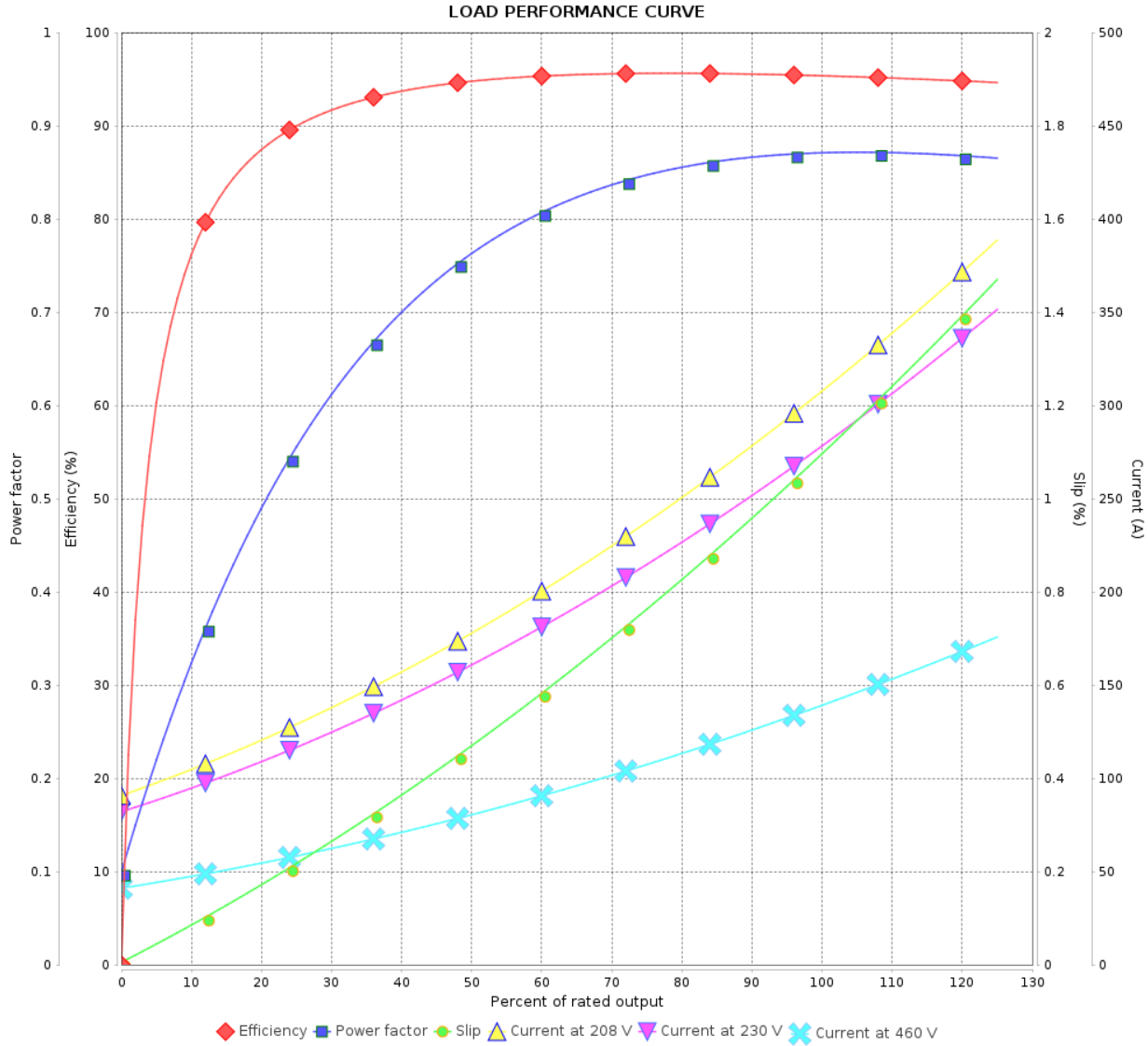
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10849092



Performance : 230/460 V 60 Hz 4P

Rated current : 272/136 A  
 LRC : 7.0  
 Rated torque : 51.0 kgfm  
 Locked rotor torque : 240 %  
 Breakdown torque : 250 %  
 Rated speed : 1780 rpm

Moment of inertia (J) : 1.12 kgm<sup>2</sup>  
 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			

# LOAD PERFORMANCE CURVE

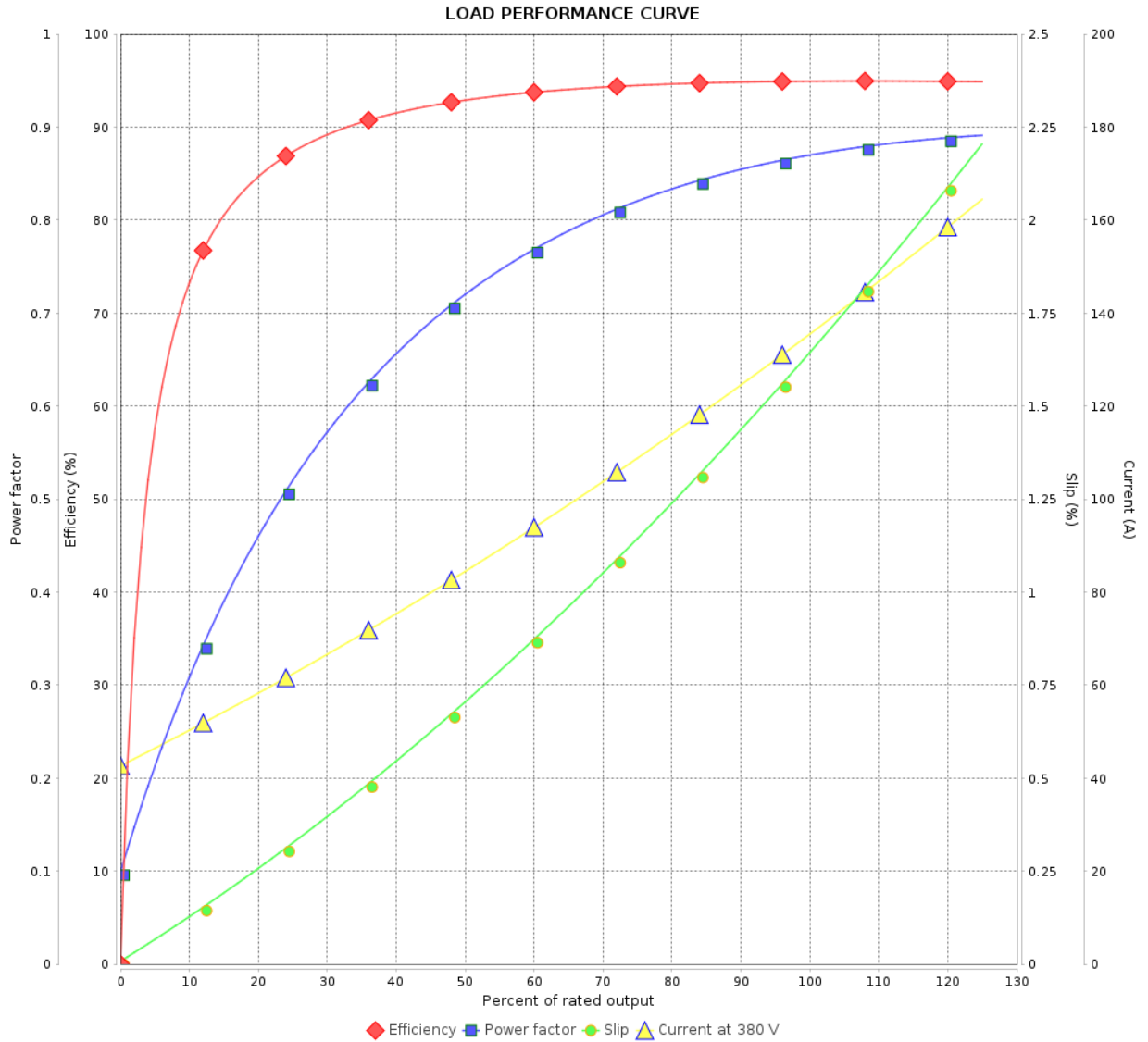
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10849092



Performance : 380 V 50 Hz 4P IE3

Rated current : 138 A  
 LRC : 6.7  
 Rated torque : 49.2 kgfm  
 Locked rotor torque : 300 %  
 Breakdown torque : 260 %  
 Rated speed : 1475 rpm

Moment of inertia (J) : 1.12 kgm<sup>2</sup>  
 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		3 / 8		
Date		05/02/2024		

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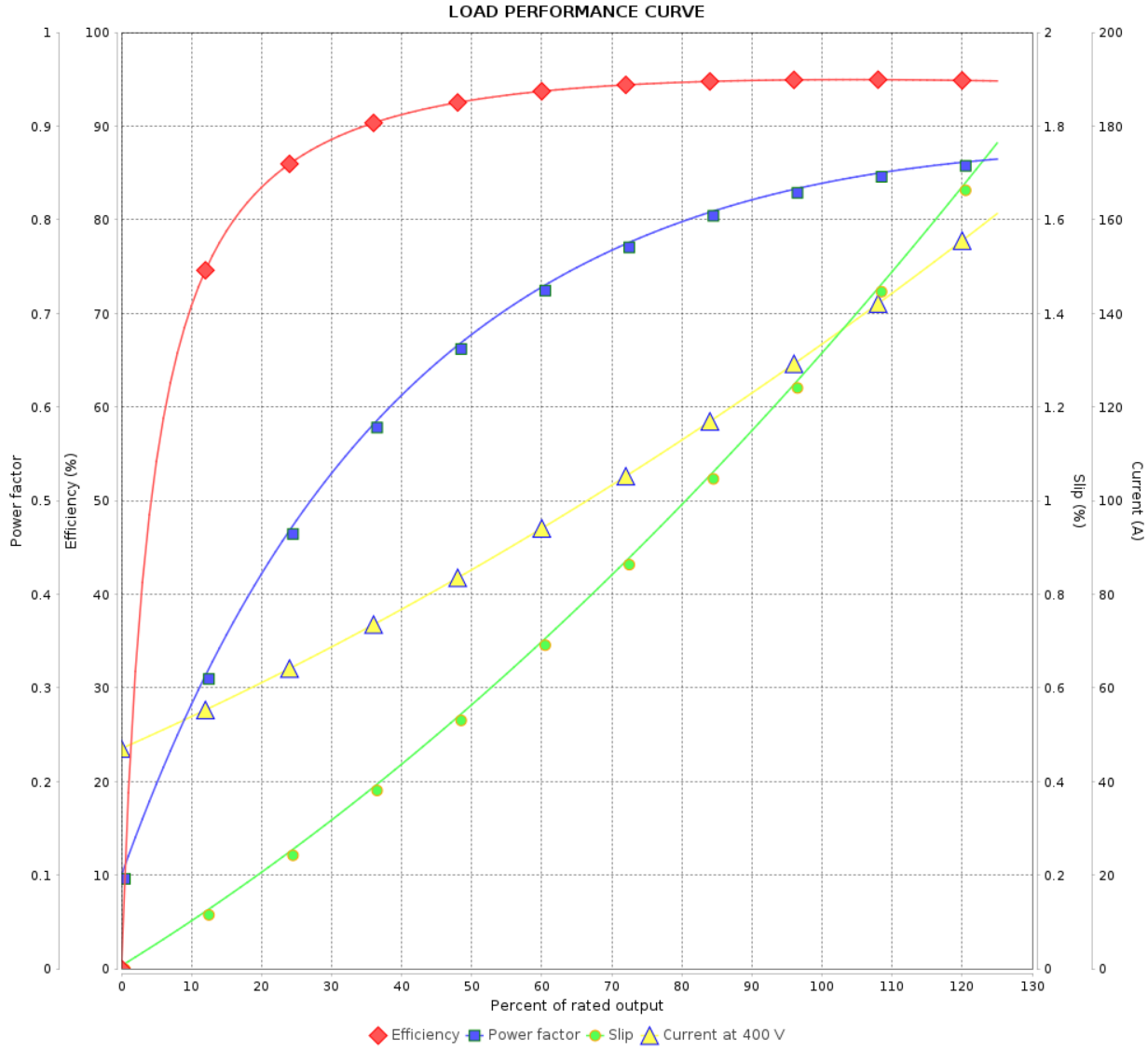
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10849092



Performance : 400 V 50 Hz 4P IE3

Rated current	: 136 A	Moment of inertia (J)	: 1.12 kgm <sup>2</sup>
LRC	: 7.4	Duty cycle	: Cont.(S1)
Rated torque	: 49.0 kgfm	Insulation class	: F
Locked rotor torque	: 330 %	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	05/02/2024			

# LOAD PERFORMANCE CURVE

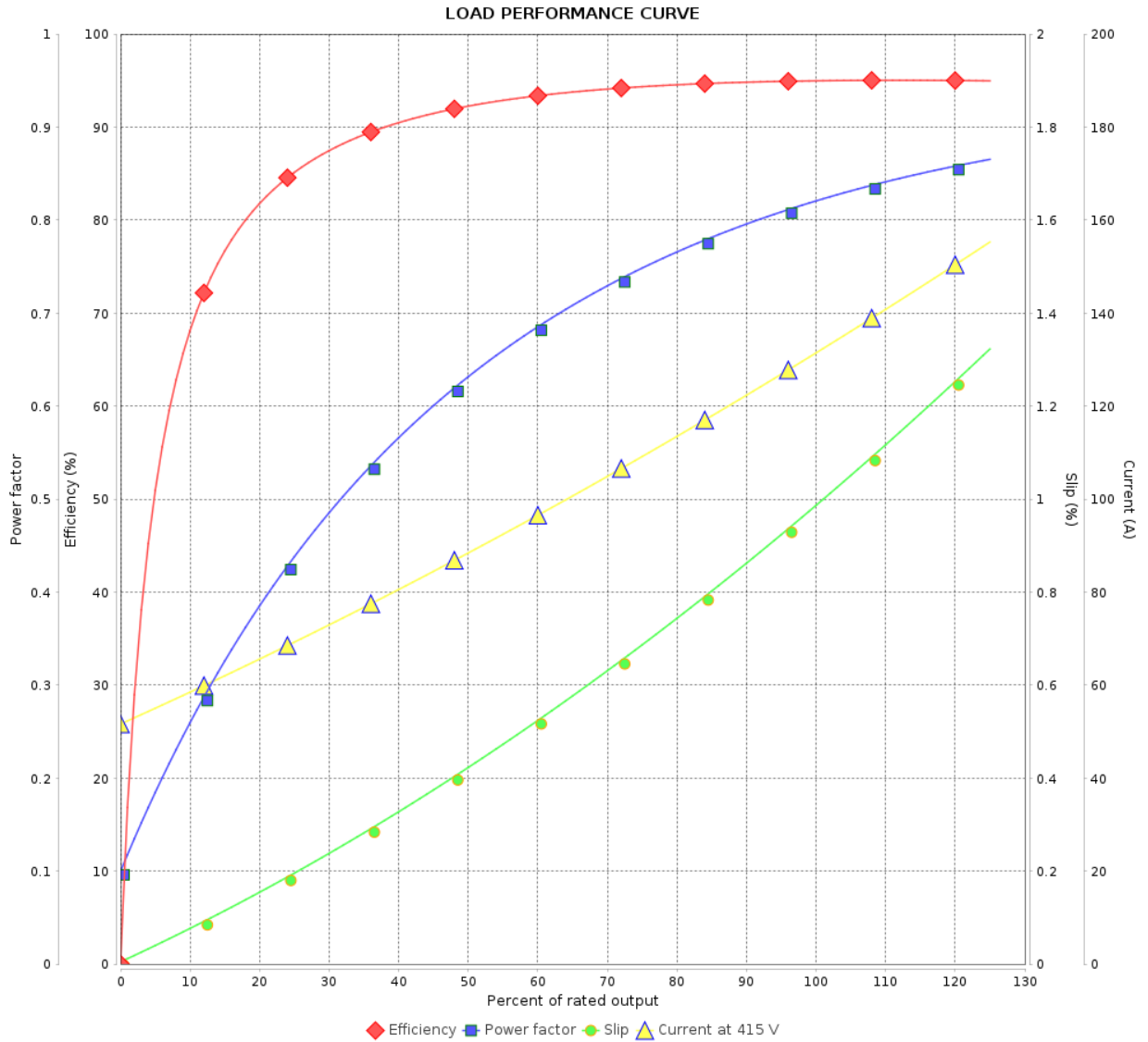
## Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10849092



Performance : 415 V 50 Hz 4P IE3

Rated current : 134 A  
 LRC : 7.9  
 Rated torque : 48.9 kgfm  
 Locked rotor torque : 350 %  
 Breakdown torque : 310 %  
 Rated speed : 1485 rpm

Moment of inertia (J) : 1.12 kgm<sup>2</sup>  
 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					
Checked by					
Date					05/02/2024
		Page	Revision		
		5 / 8			

# LOAD PERFORMANCE CURVE

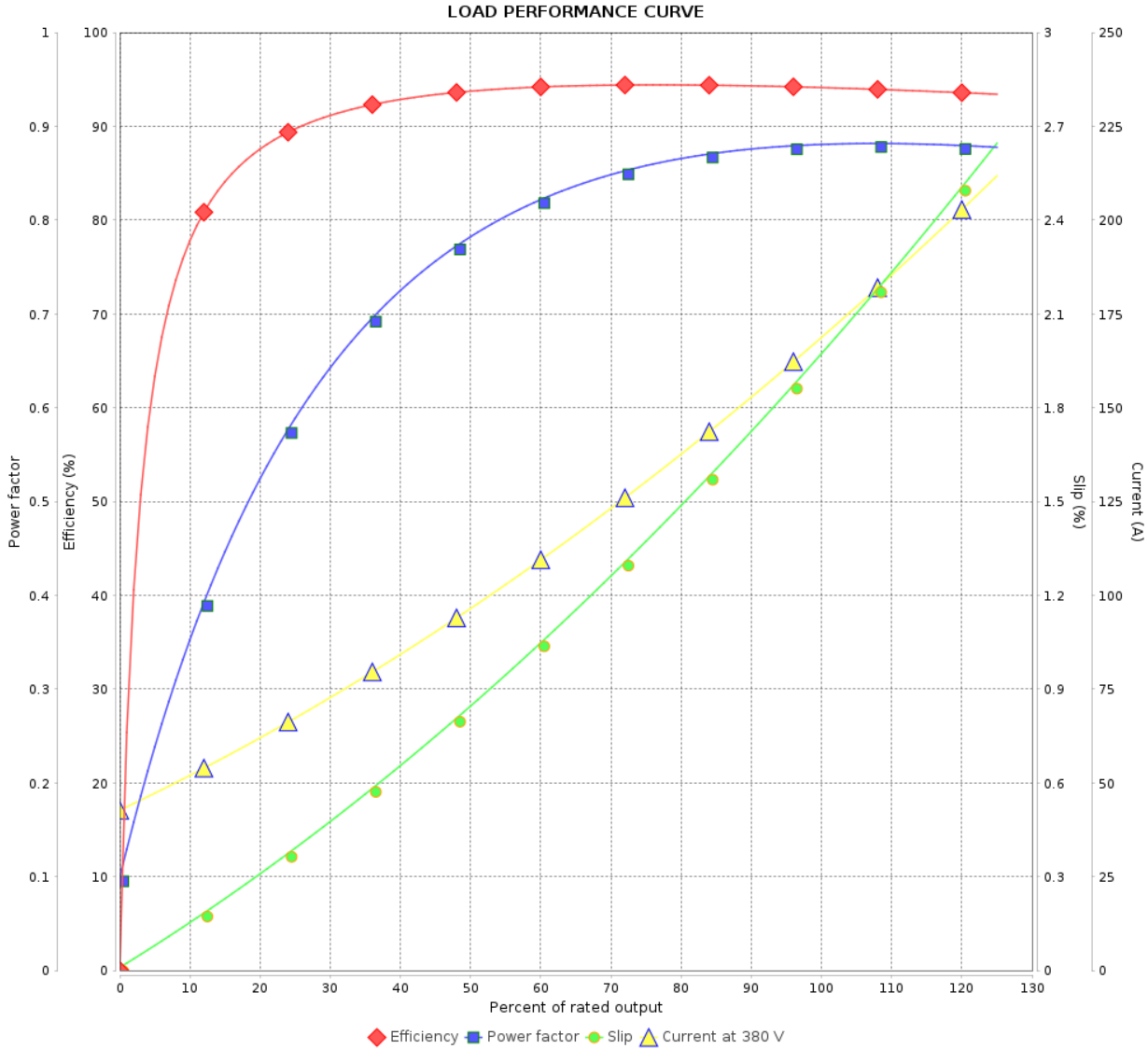
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10849092



Performance : 380 V 50 Hz 4P IE2

Rated current	: 165 A	Moment of inertia (J)	: 1.12 kgm <sup>2</sup>
LRC	: 5.4	Duty cycle	: Cont.(S1)
Rated torque	: 61.7 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 80 K
Rated speed	: 1470 rpm	Design	: B

Rev.	Changes Summary	Performed	Checked	Date
Performed by			Page 6 / 8	Revision
Checked by				
Date	05/02/2024			

# LOAD PERFORMANCE CURVE

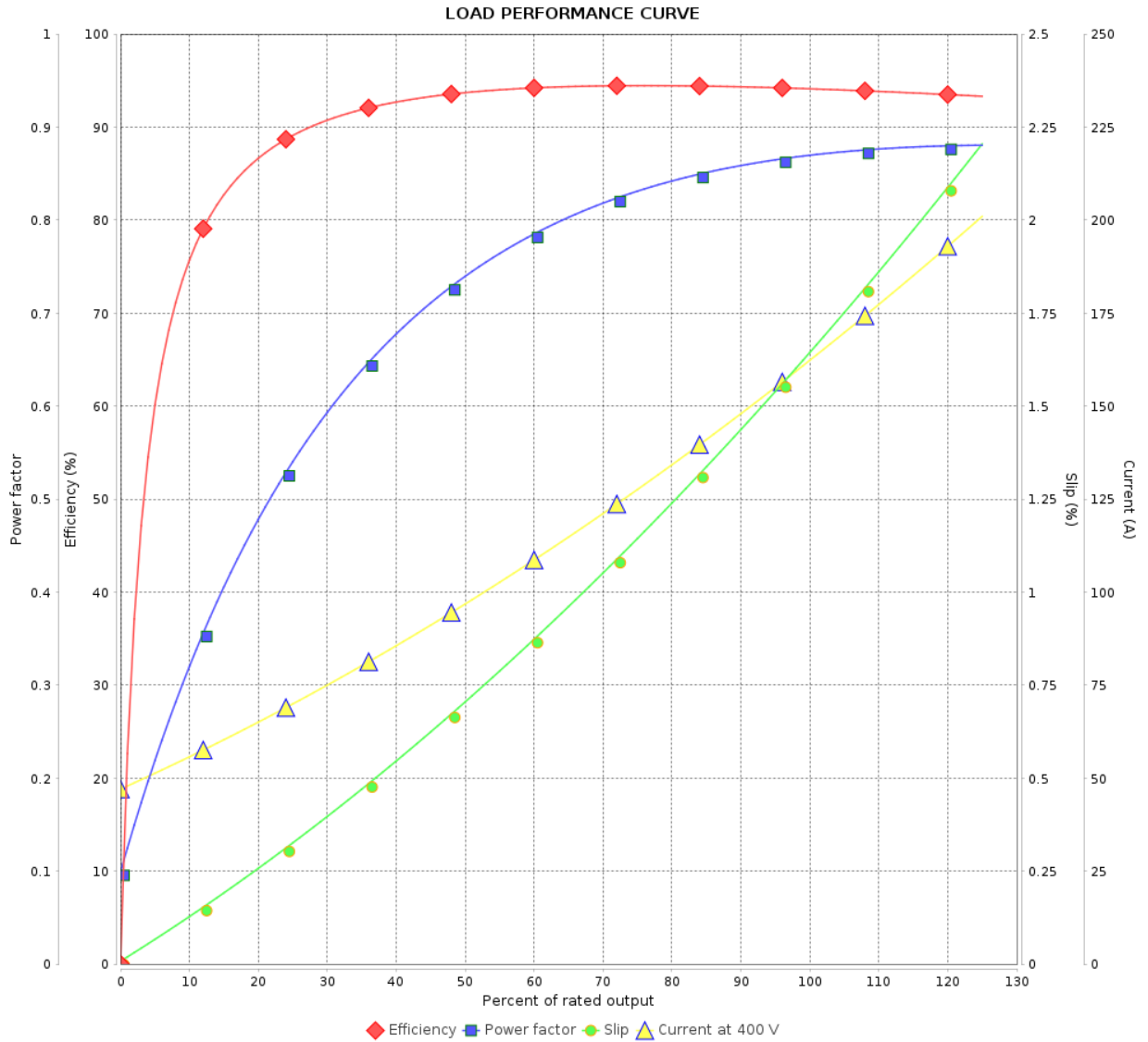
## Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10849092



Performance : 400 V 50 Hz 4P IE2

Rated current : 159 A  
 LRC : 6.1  
 Rated torque : 61.5 kgfm  
 Locked rotor torque : 260 %  
 Breakdown torque : 229 %  
 Rated speed : 1475 rpm

Moment of inertia (J) : 1.12 kgm<sup>2</sup>  
 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				

# LOAD PERFORMANCE CURVE

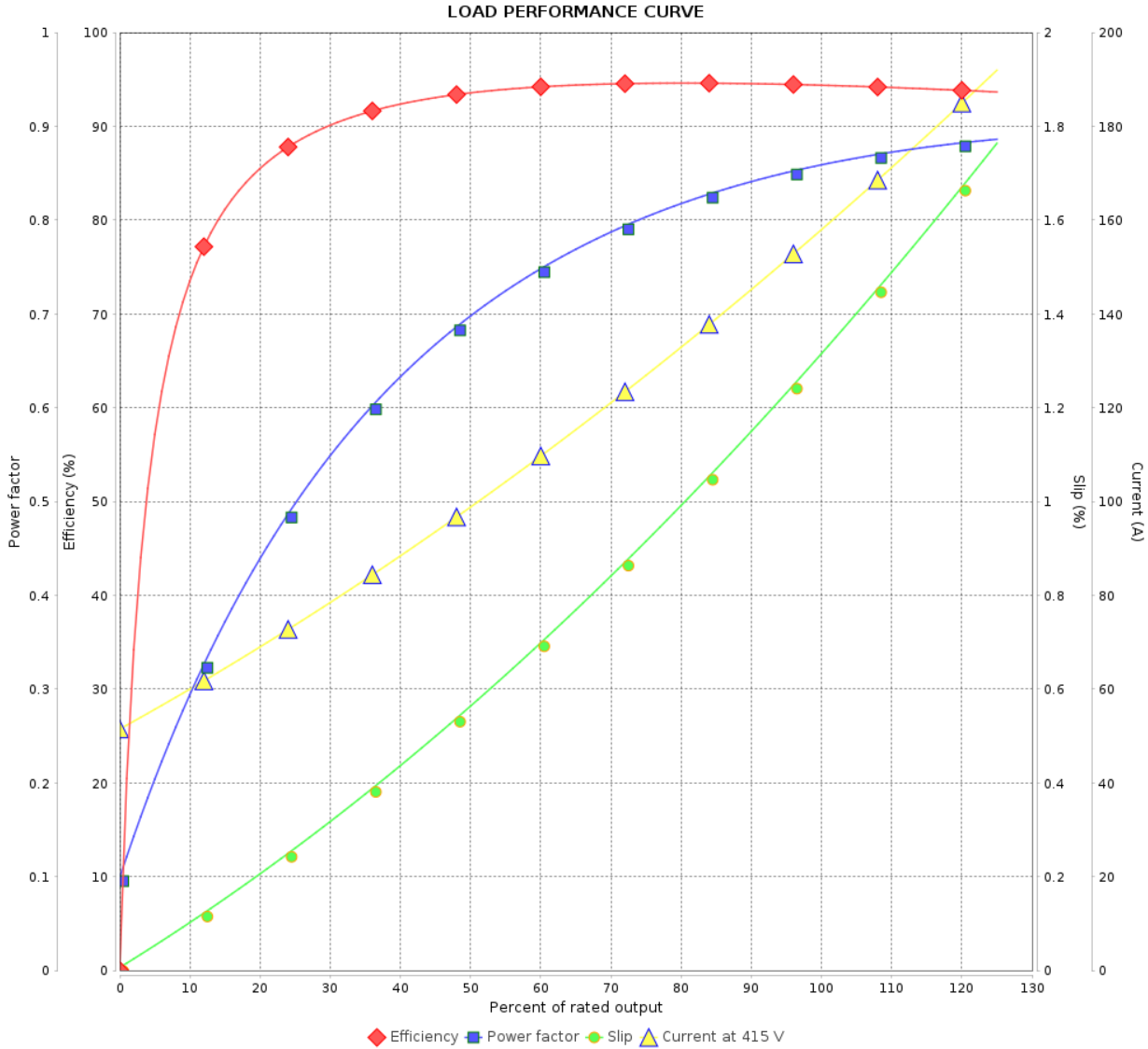
Three Phase Induction Motor - Squirrel Cage



Customer : \_\_\_\_\_

Product line : ODP NEMA Premium Efficiency Three-Phase

Product code : 10849092



Performance : 415 V 50 Hz 4P IE2

Rated current : 154 A  
 LRC : 6.6  
 Rated torque : 61.3 kgfm  
 Locked rotor torque : 280 %  
 Breakdown torque : 250 %  
 Rated speed : 1480 rpm

Moment of inertia (J) : 1.12 kgm<sup>2</sup>  
 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			