

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11355769

Frame	: 444/5T	Cooling method	: IC411 - TEFC
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	: 721 kg
Protection degree	: IP55	Moment of inertia (J)	: 2.41 kgm ²
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]	279/139	141	136	132	168	162	155
L. R. Amperes [A]	1811/905	903	950	1004	858	922	977
LRC [A]	6.5x(Code G)	6.4x(Code G)	7.0x(Code H)	7.6x(Code J)	5.1x(Code E)	5.7x(Code F)	6.3x(Code G)
No load current [A]	92.0/46.0	46.0	49.0	52.0	44.0	49.0	52.0
Rated speed [RPM]	1785	1485	1485	1487	1480	1482	1483
Slip [%]	0.83	1.00	1.00	0.87	1.33	1.20	1.13
Rated torque [kgfm]	50	48	48	48	61	61	61
Locked rotor torque [%]	200	190	220	240	160	180	190
Breakdown torque [%]	229	229	260	280	200	200	220
Service factor	1.15	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	80 K	80 K	80 K
Locked rotor time	48s (cold) 27s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)	32s (cold) 18s (hot)
Noise level ²	73.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)	69.0 dB(A)
Efficiency (%)	25%	0.000			0.000		
	50%	95.0	94.7	94.6	94.3	95.0	95.0
	75%	95.4	95.1	95.1	95.1	95.0	95.0
	100%	95.4	95.0	95.0	95.2	94.5	95.0
Power Factor	25%	0.00			0.00		
	50%	0.74	0.73	0.69	0.67	0.79	0.74
	75%	0.82	0.82	0.80	0.78	0.84	0.83
	100%	0.85	0.85	0.84	0.83	0.86	0.85

Losses at normative operating points (speed;torque), in percentage of rated output power

Losses (%)	P1 (0,9;1,0)	4.5	4.9	4.9	4.7	5.5	5.5	4.9
	P2 (0,5;1,0)	3.4	3.7	3.7	3.5	4.1	4.1	3.7
	P3 (0,25;1,0)	3.0	3.3	3.3	3.1	3.6	3.6	3.3
	P4 (0,9;0,5)	2.4	2.6	2.6	2.5	2.9	2.9	2.6
	P5 (0,5;0,5)	1.4	1.5	1.5	1.5	1.7	1.7	1.5
	P6 (0,5;0,25)	0.9	1.0	1.0	1.0	1.1	1.1	1.0
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.7	0.7	0.6

Bearing type	: 6319 C3	Non drive end	6316 C3	Foundation loads	
Sealing	: WSeal	WSeal		Max. traction	: 841 kgf
Lubrication interval	: 8000 h	10000 h		Max. compression	: 1512 kgf
Lubricant amount	: 45 g	34 g			
Lubricant type	: Mobil Polyrex EM				

This revision replaces and cancel the previous one, which must be eliminated.
(1) Looking the motor from the shaft end.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer : _____

Notes
USABLE @208V 307A SF 1.00 SFA 307A

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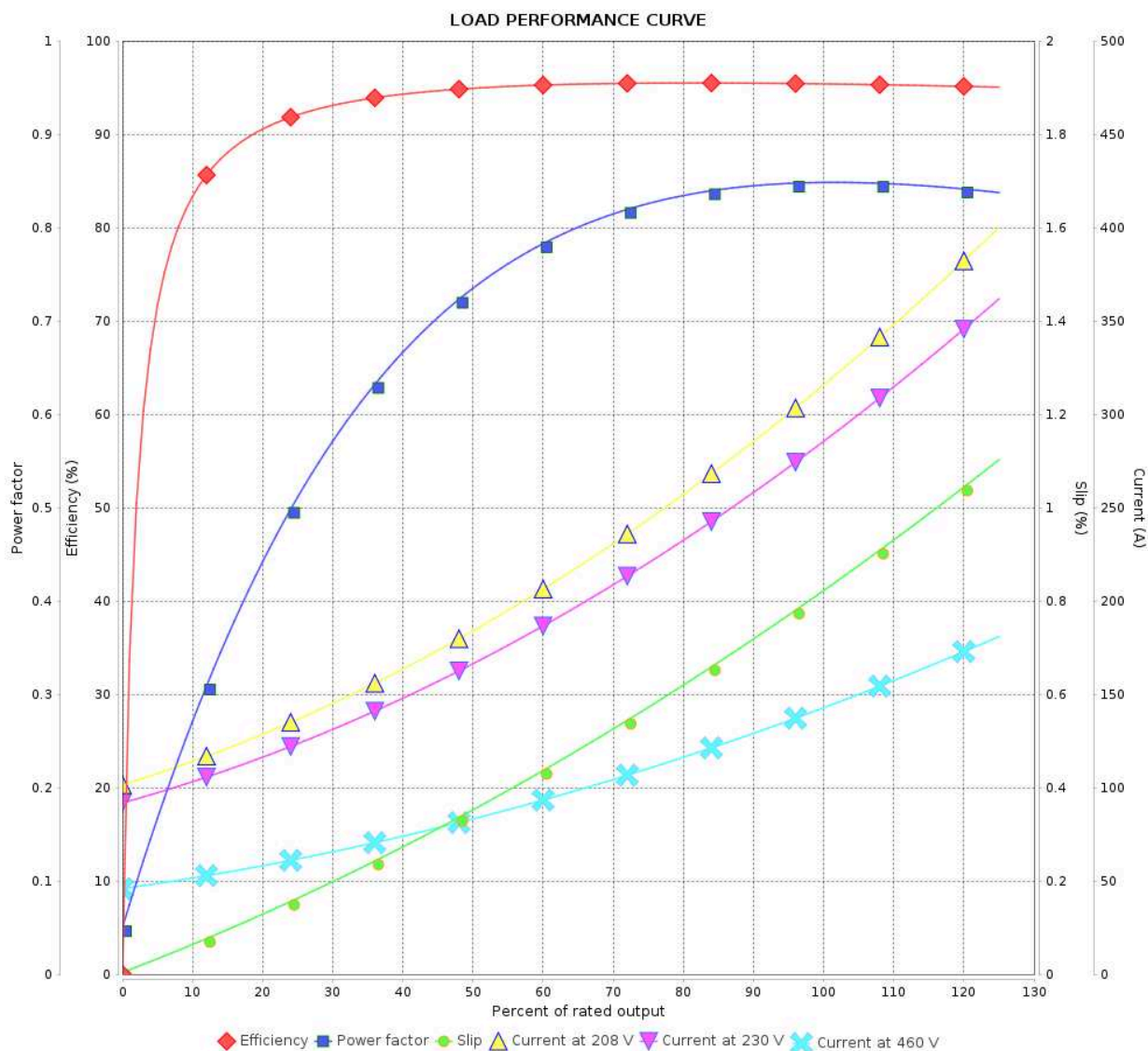
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355769



Performance : 230/460 V 60 Hz 4P

Rated current : 279/139 A
LRC : 6.5
Rated torque : 50 kgfm
Locked rotor torque : 200 %
Breakdown torque : 229 %
Rated speed : 1785 rpm

Moment of inertia (J) : 2.41 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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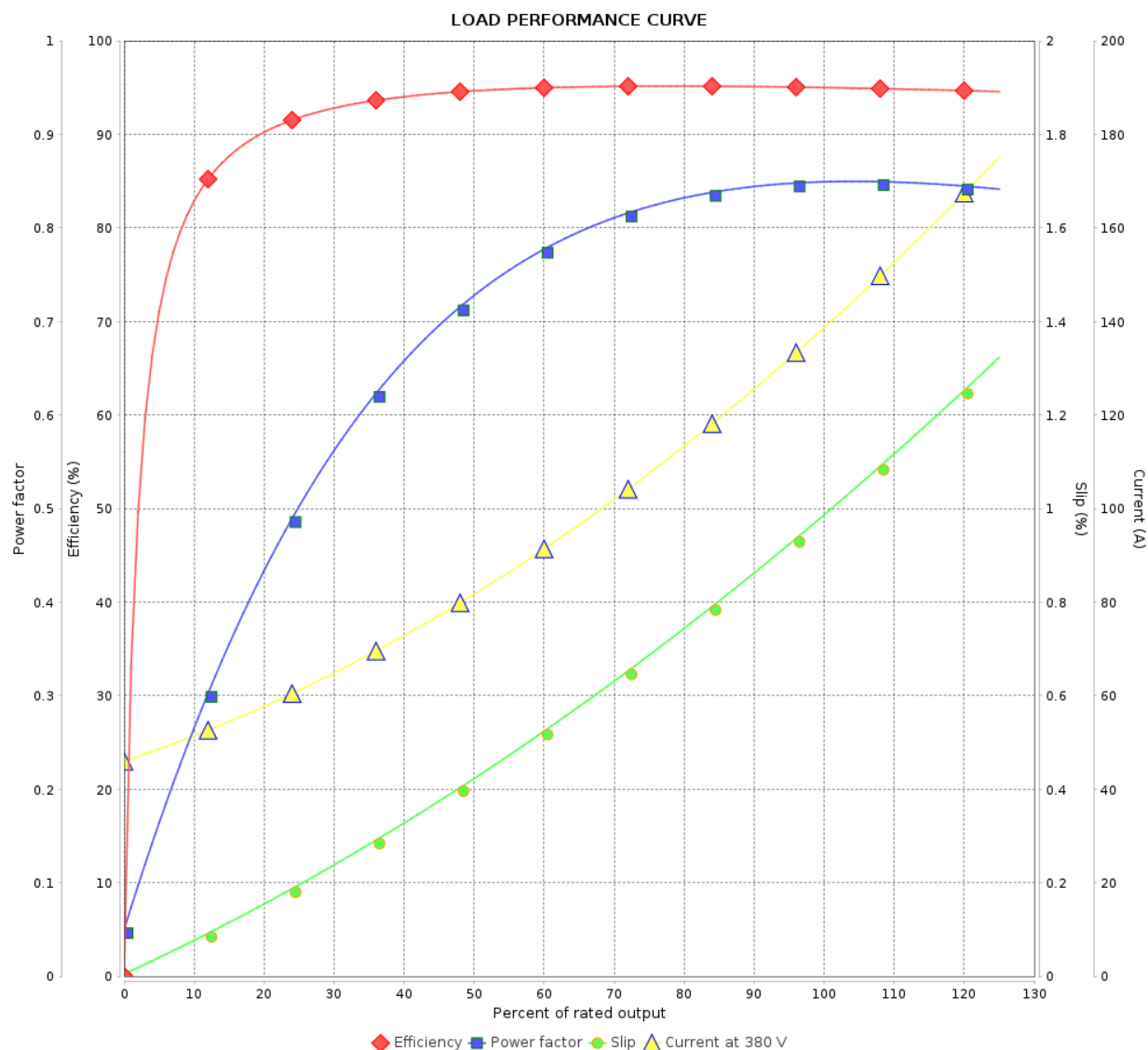
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355769



Performance : 380 V 50 Hz 4P IE3

Rated current	: 141 A	Moment of inertia (J)	: 2.41 kgm ²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 48 kgfm	Insulation class	: F
Locked rotor torque	: 190 %	Service factor	: 1.00
Breakdown torque	: 229 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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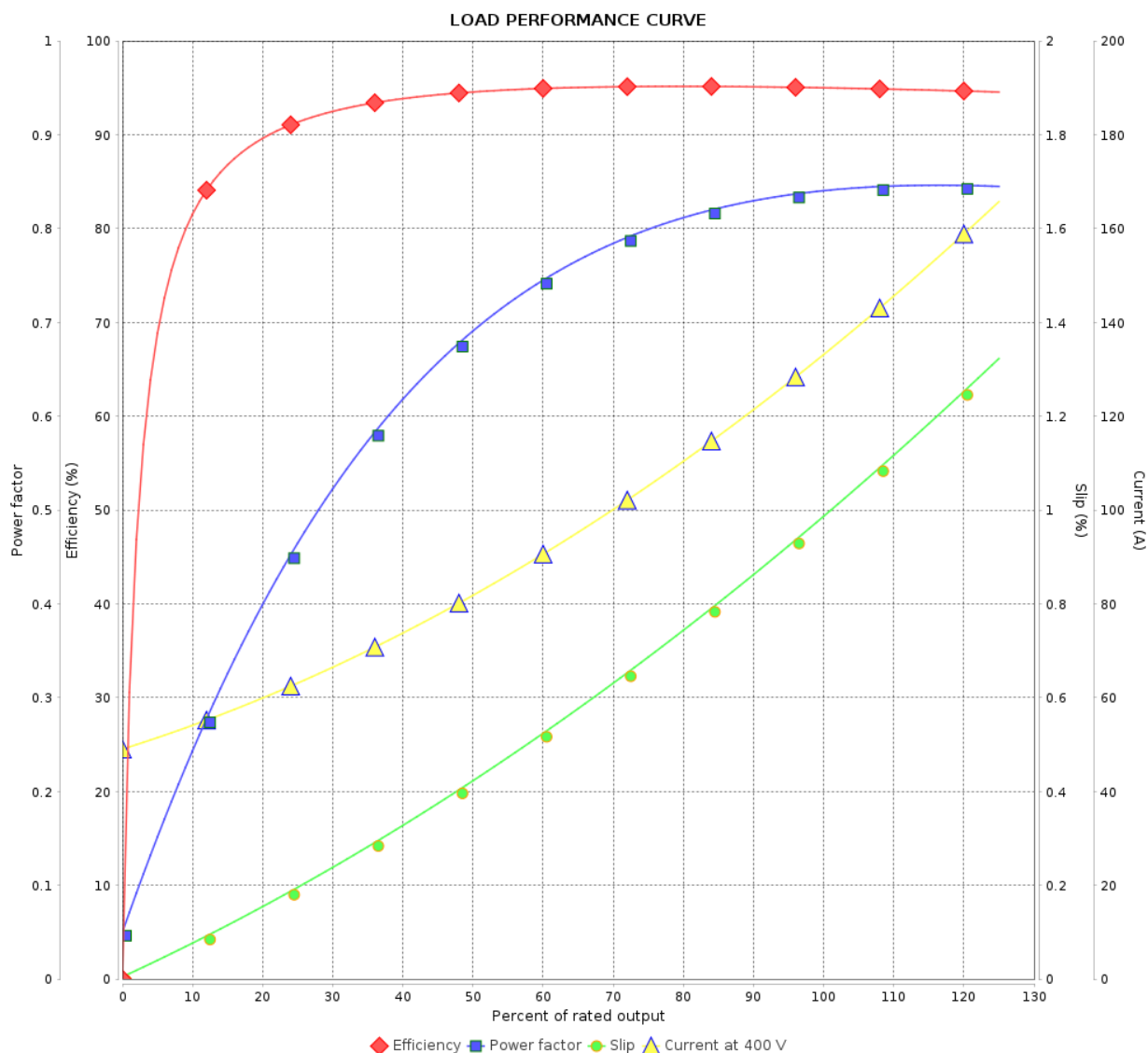
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355769



Performance : 400 V 50 Hz 4P IE3

Rated current : 136 A
LRC : 7.0
Rated torque : 48 kgfm
Locked rotor torque : 220 %
Breakdown torque : 260 %
Rated speed : 1485 rpm

Moment of inertia (J) : 2.41 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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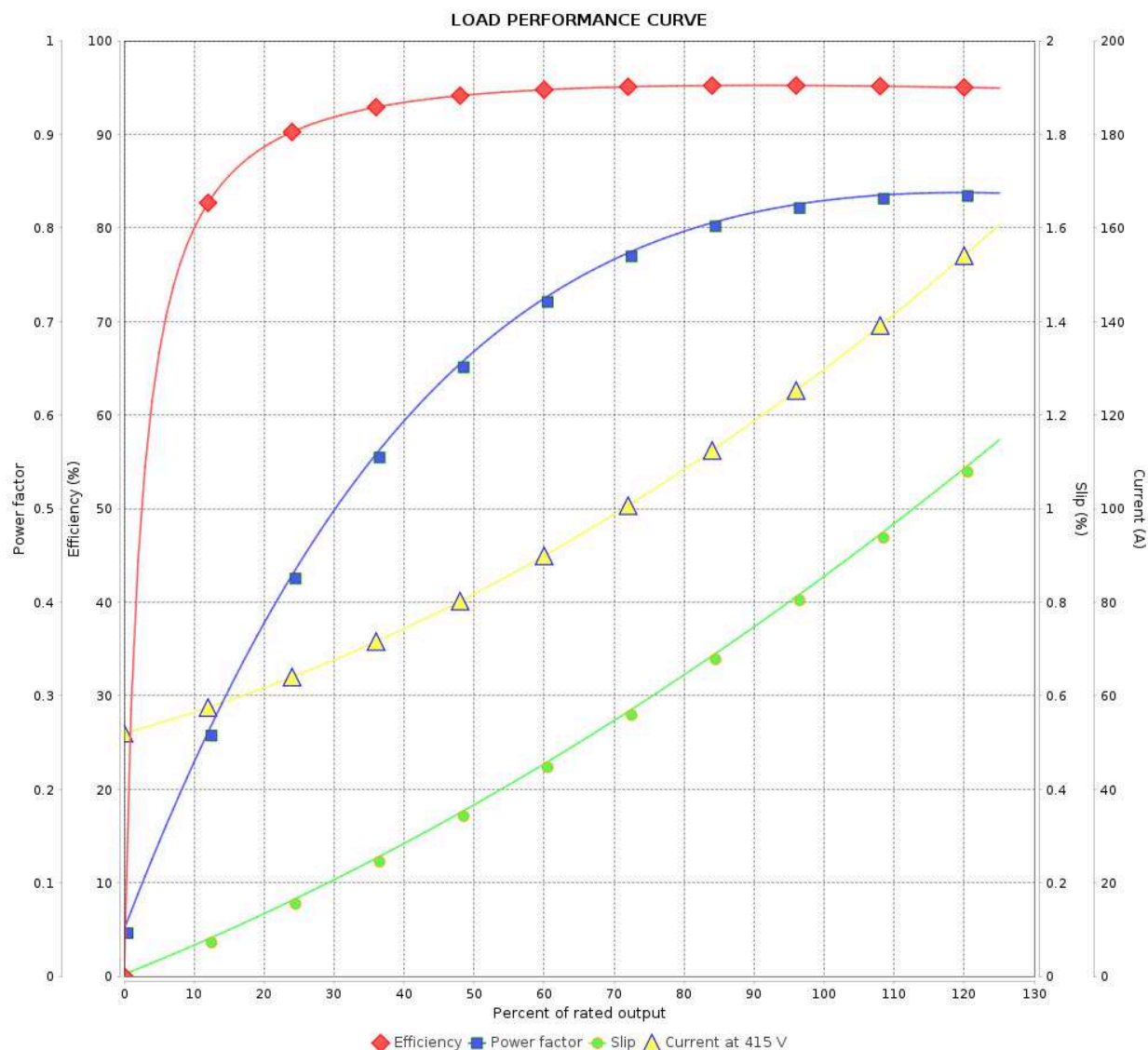
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355769



Performance : 415 V 50 Hz 4P IE3

Rated current	: 132 A	Moment of inertia (J)	: 2.41 kgm ²
LRC	: 7.6	Duty cycle	: Cont.(S1)
Rated torque	: 48 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1487 rpm	Design	: B

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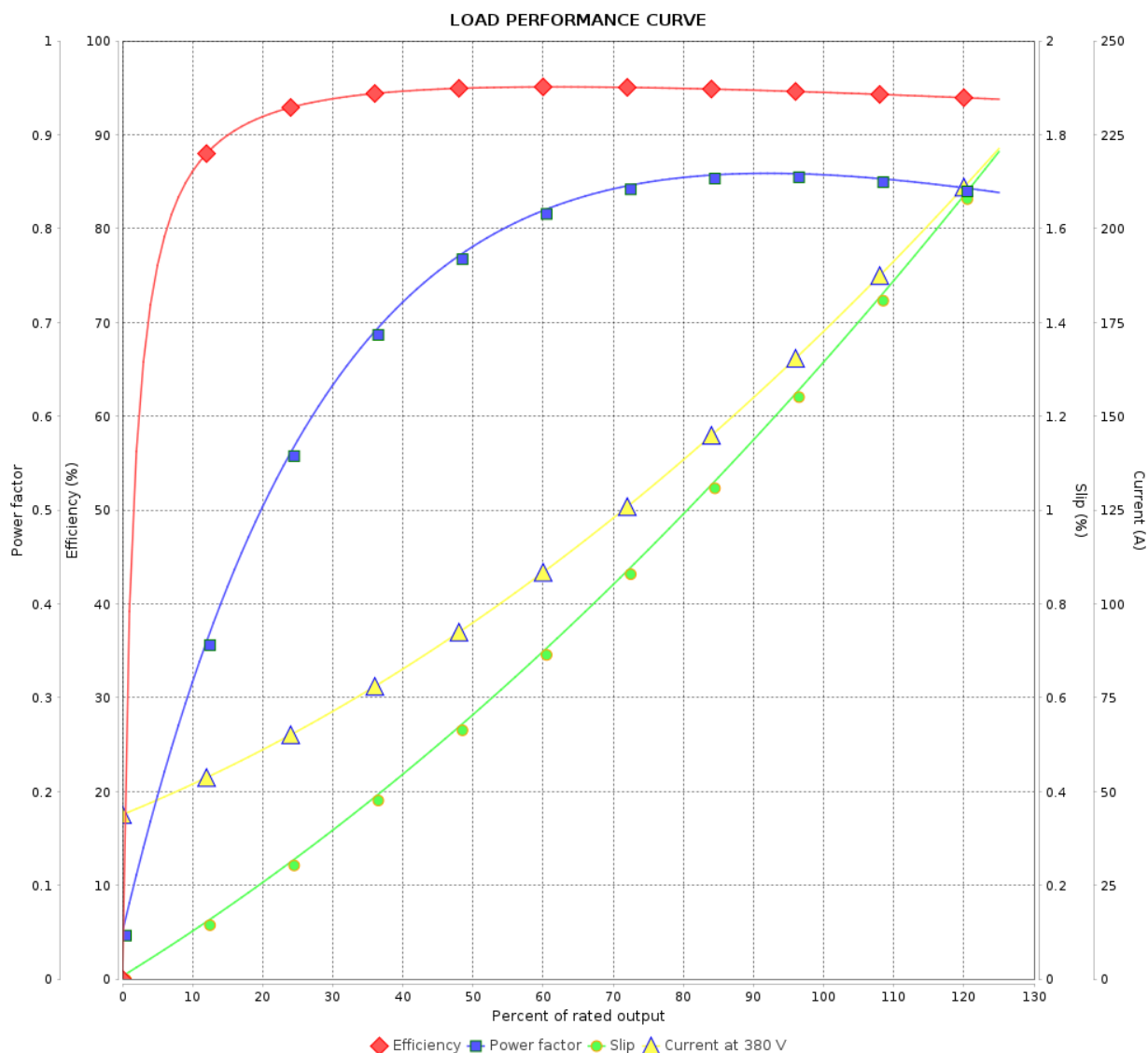
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355769



Performance : 380 V 50 Hz 4P IE2

Rated current : 168 A
LRC : 5.1
Rated torque : 61 kgfm
Locked rotor torque : 160 %
Breakdown torque : 200 %
Rated speed : 1480 rpm

Moment of inertia (J) : 2.41 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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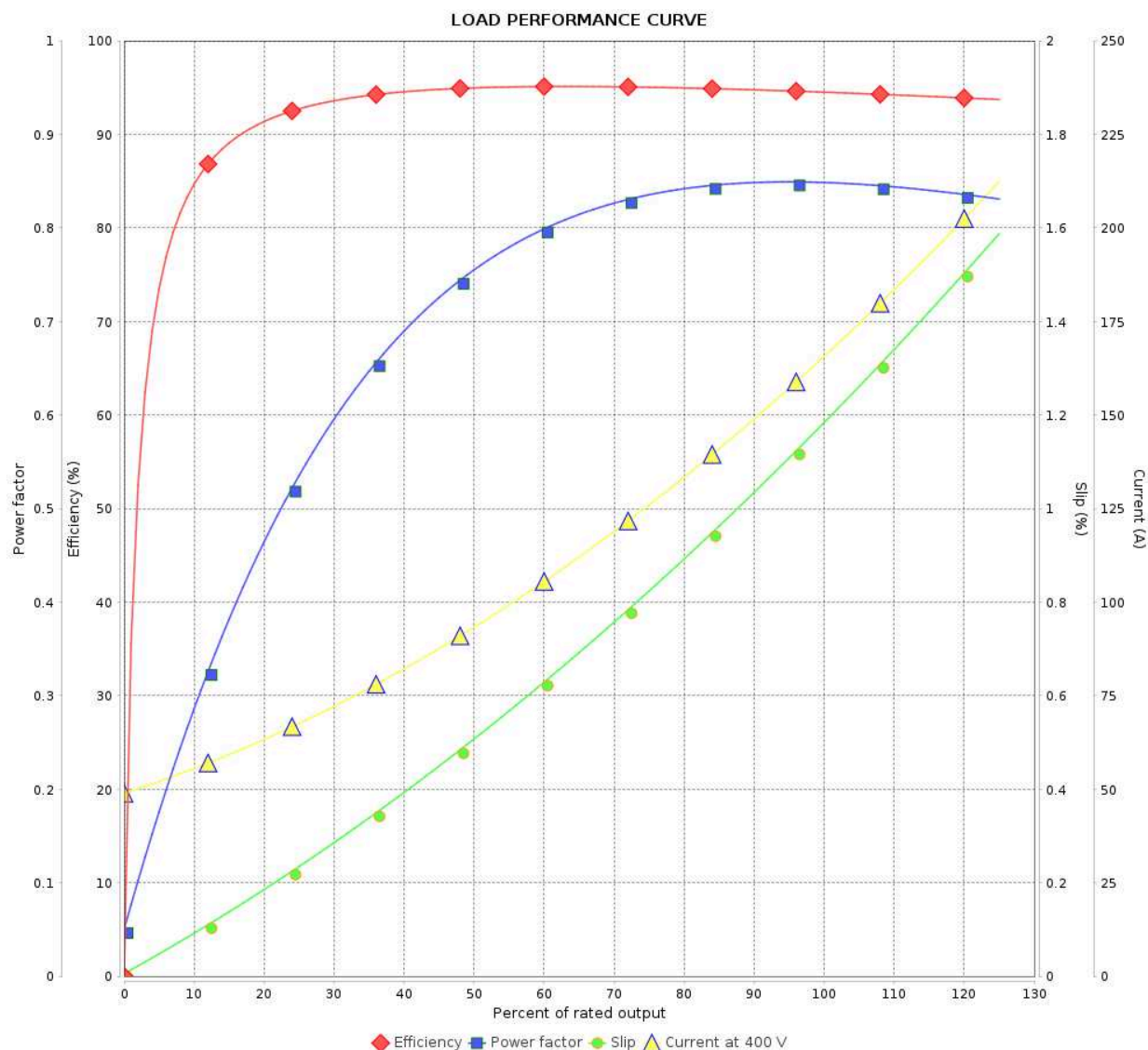
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11355769



Performance : 400 V 50 Hz 4P IE2

Rated current	: 162 A	Moment of inertia (J)	: 2.41 kgm ²
LRC	: 5.7	Duty cycle	: Cont.(S1)
Rated torque	: 61 kgfm	Insulation class	: F
Locked rotor torque	: 180 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 80 K
Rated speed	: 1482 rpm	Design	: B

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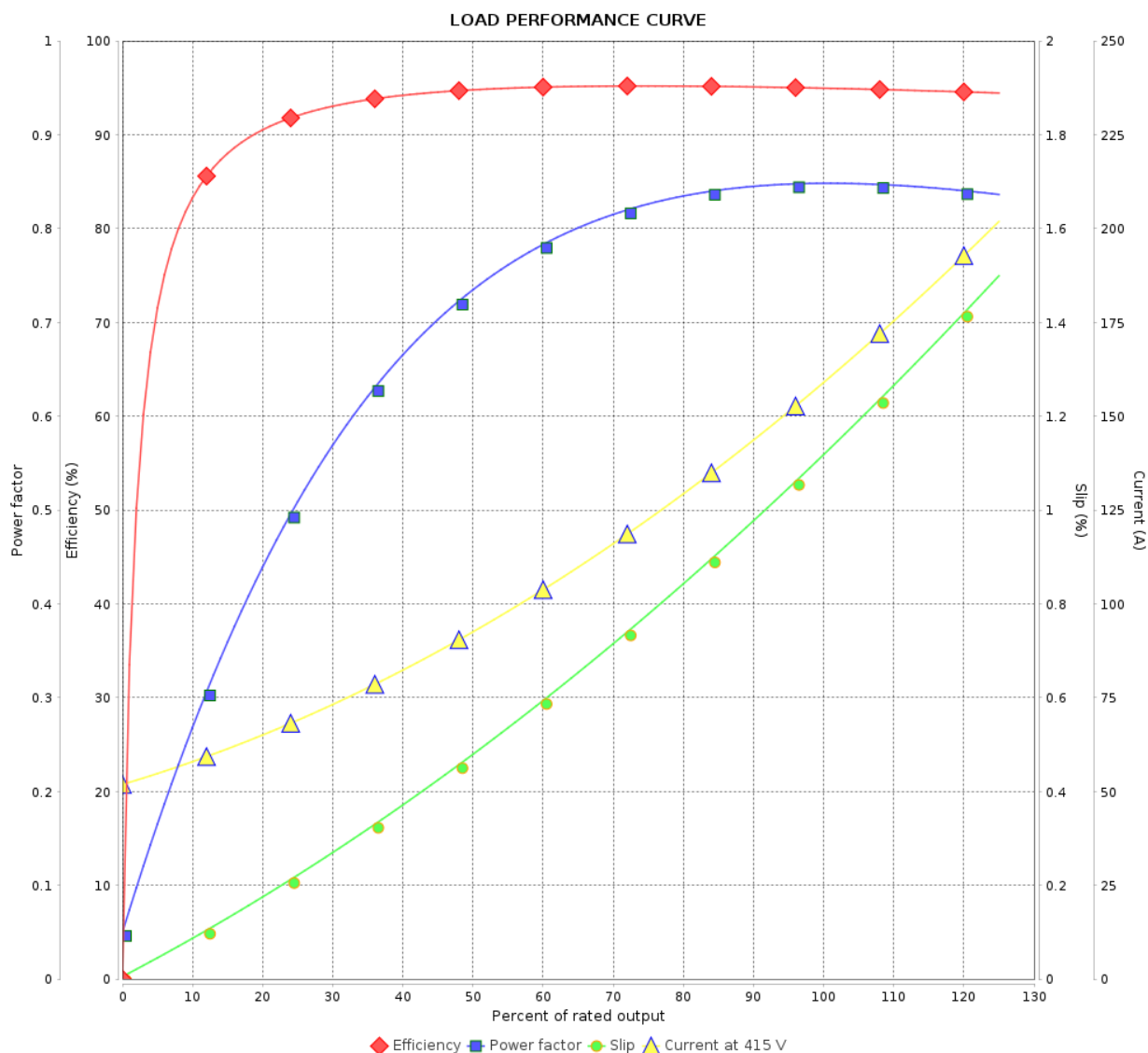
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase

Product code : 11355769

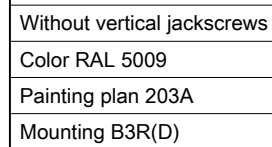
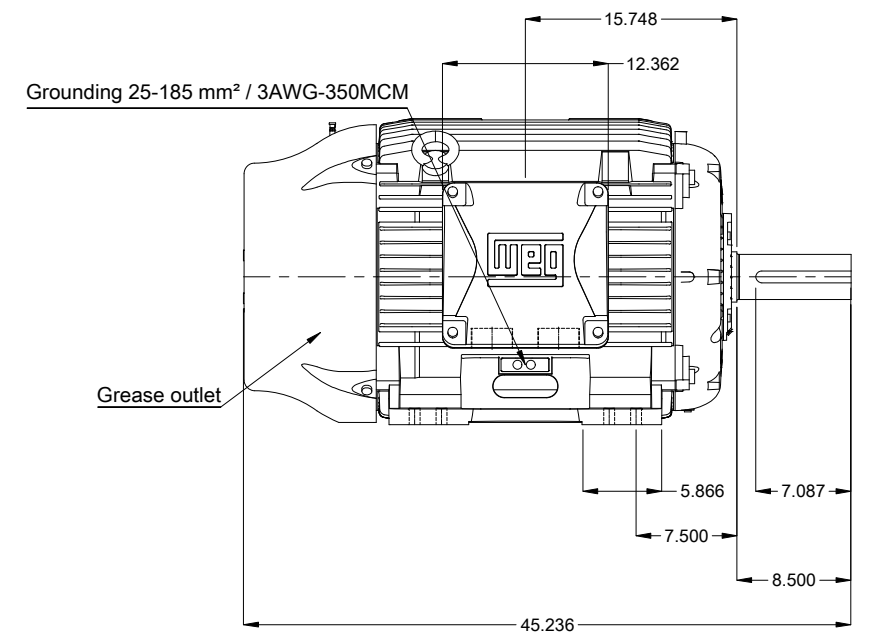


Performance : 415 V 50 Hz 4P IE2

Rated current : 155 A
LRC : 6.3
Rated torque : 61 kgfm
Locked rotor torque : 190 %
Breakdown torque : 220 %
Rated speed : 1483 rpm

Moment of inertia (J) : 2.41 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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125 HP 04 Poles 60 Hz										A
						Scale 1 : 14				
						HYBRISUSER				00
ECM		LOC		SUMMARY OF MODIFICATIONS		EXECUTED		CHECKED		RELEASED
								DATE		VER
EXECUTED		HYBRISUSER		 THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 444/5T IP55 TEFC		PREVIEW WDD 00				
CHECKED										
RELEASED										
REL. DATE										
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