

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA Premium Efficiency Three-Phase Product code : 11169383

Frame	: 254JM	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	: 110 kg
Protection degree	: IP23	Moment of inertia (J)	: 0.0878 kgm ²
Design	: B		

Output [HP]	15	10	10	10	15	15	15
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]	37.2/18.6	16.2	16.2	16.2	22.1	21.8	21.8
L. R. Amperes [A]	249/125	110	110	113	119	124	131
LRC [A]	6.7x(Code H)	6.8x(Code J)	6.8x(Code J)	7.0x(Code K)	5.4x(Code F)	5.7x(Code G)	6.0x(Code G)
No load current [A]	18.0/9.00	9.20	10.1	10.9	9.20	10.4	11.6
Rated speed [RPM]	1775	1480	1480	1485	1470	1470	1475
Slip [%]	1.39	1.33	1.33	1.00	2.00	2.00	1.67
Rated torque [kgfm]	6.13	4.90	4.90	4.89	7.41	7.41	7.38
Locked rotor torque [%]	290	270	280	300	180	190	210
Breakdown torque [%]	300	370	390	400	280	310	340
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)	37s (cold) 21s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)	37s (cold) 21s (hot)	34s (cold) 19s (hot)	30s (cold) 17s (hot)
Noise level ²	59.0 dB(A)						
Efficiency (%)	25%						
	50%	91.7	86.4	86.2	85.9	88.5	88.5
	75%	92.4	89.2	89.3	89.3	89.5	89.5
	100%	93.0	90.4	90.5	90.6	91.0	91.0
Power Factor	25%						
	50%	0.60	0.56	0.52	0.50	0.66	0.61
	75%	0.72	0.70	0.66	0.62	0.77	0.73
	100%	0.80	0.78	0.74	0.71	0.83	0.80

	<u>Drive end</u>	<u>Non drive end</u>	Foundation loads
Bearing type	: 6309 Z C3	6209 Z C3	Max. traction : 339 kgf
Sealing	: Without	Without	Max. compression : 450 kgf
	Bearing Seal	Bearing Seal	
Lubrication interval	: 20000 h	20000 h	
Lubricant amount	: 13 g	9 g	
Lubricant type	: Mobil Polyrex EM		

Notes

USABLE @208V 41.1A SF 1.15 SFA 47.3A

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.

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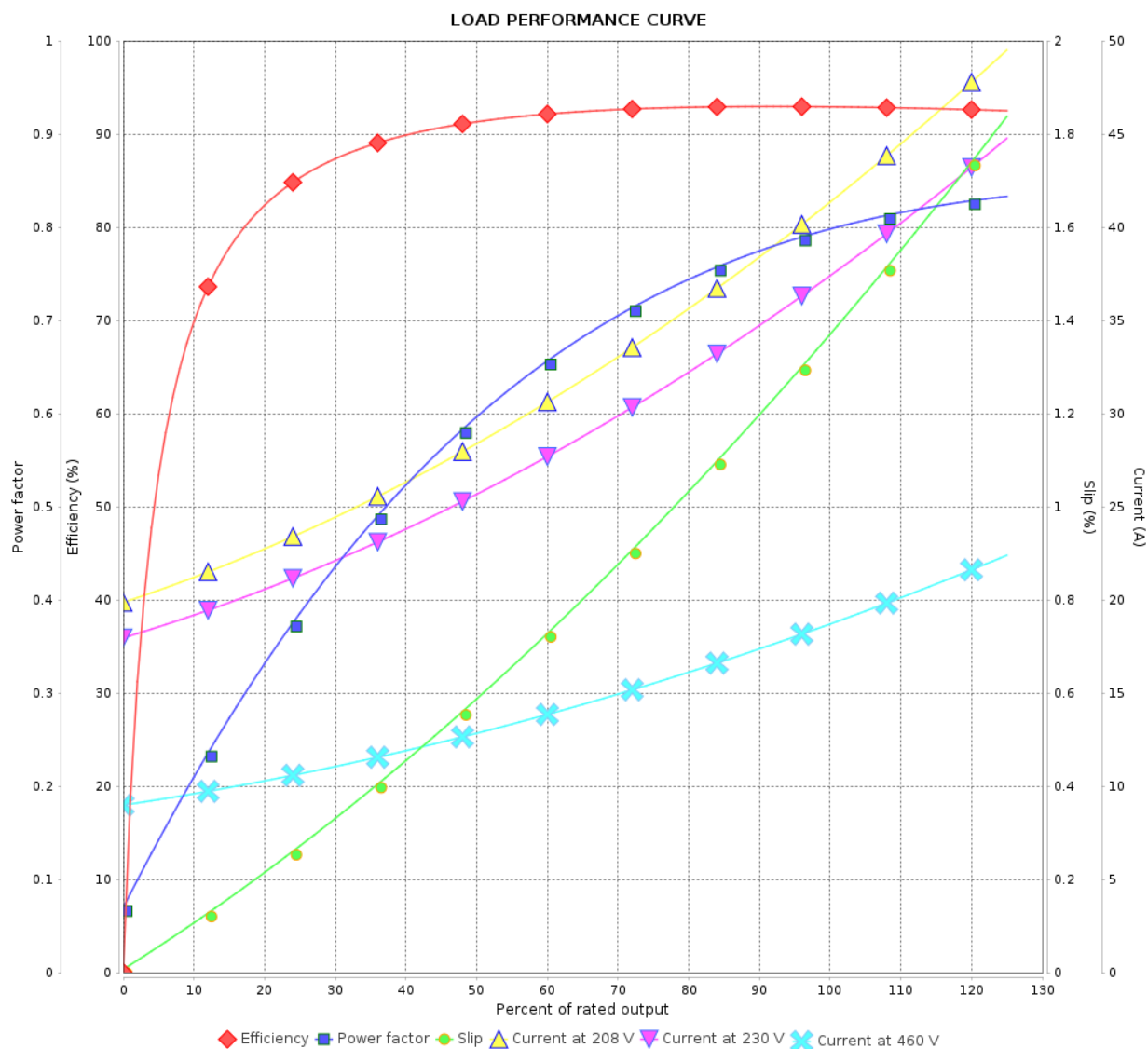
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA
Premium Efficiency Three-Phase

Product code : 11169383



Performance : 230/460 V 60 Hz 4P

Rated current : 37.2/18.6 A
LRC : 6.7
Rated torque : 6.13 kgfm
Locked rotor torque : 290 %
Breakdown torque : 300 %
Rated speed : 1775 rpm

Moment of inertia (J) : 0.0878 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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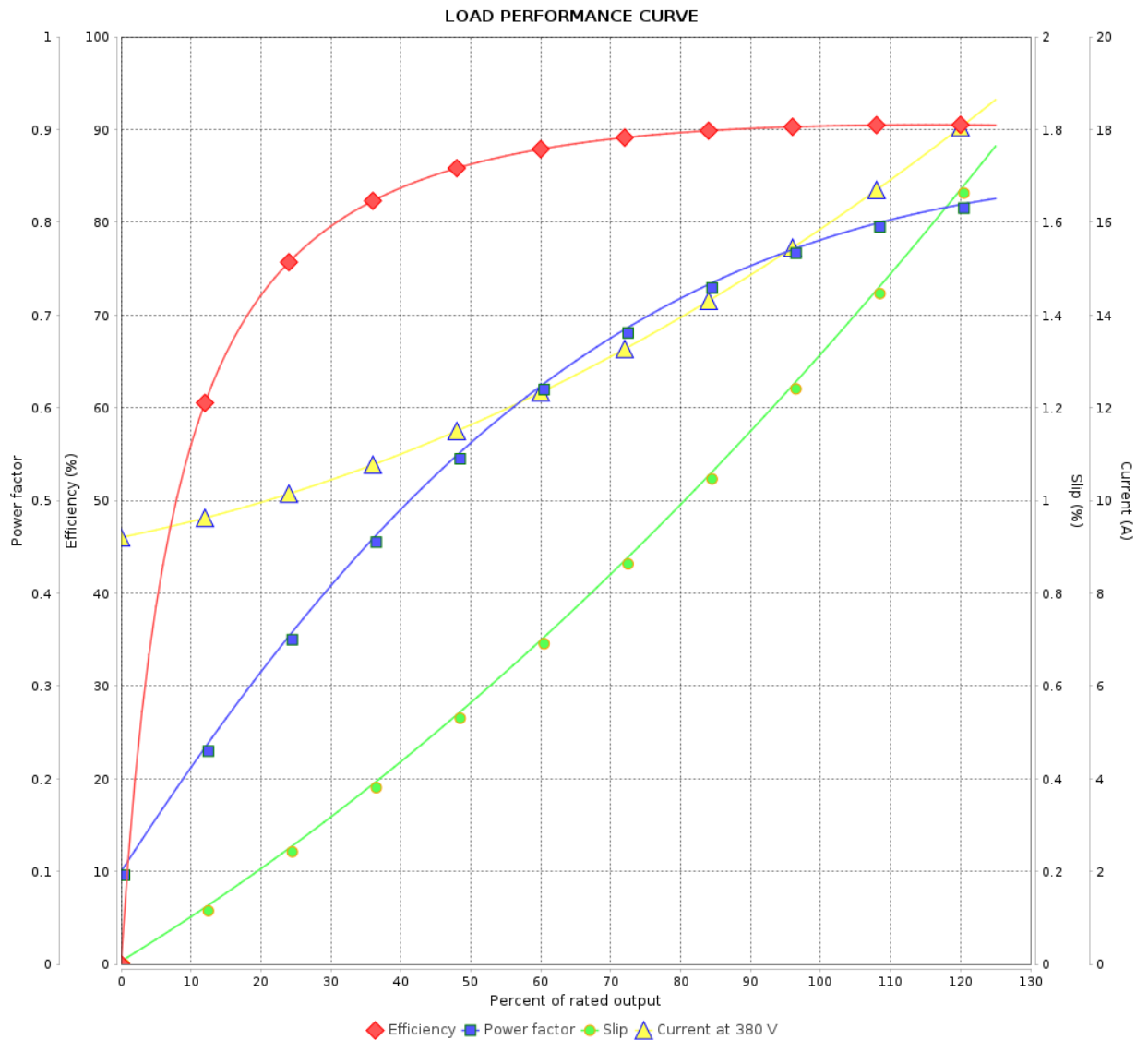
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA
Premium Efficiency Three-Phase

Product code : 11169383



Performance : 380 V 50 Hz 4P IE3

Rated current : 16.2 A
LRC : 6.8
Rated torque : 4.90 kgfm
Locked rotor torque : 270 %
Breakdown torque : 370 %
Rated speed : 1480 rpm

Moment of inertia (J) : 0.0878 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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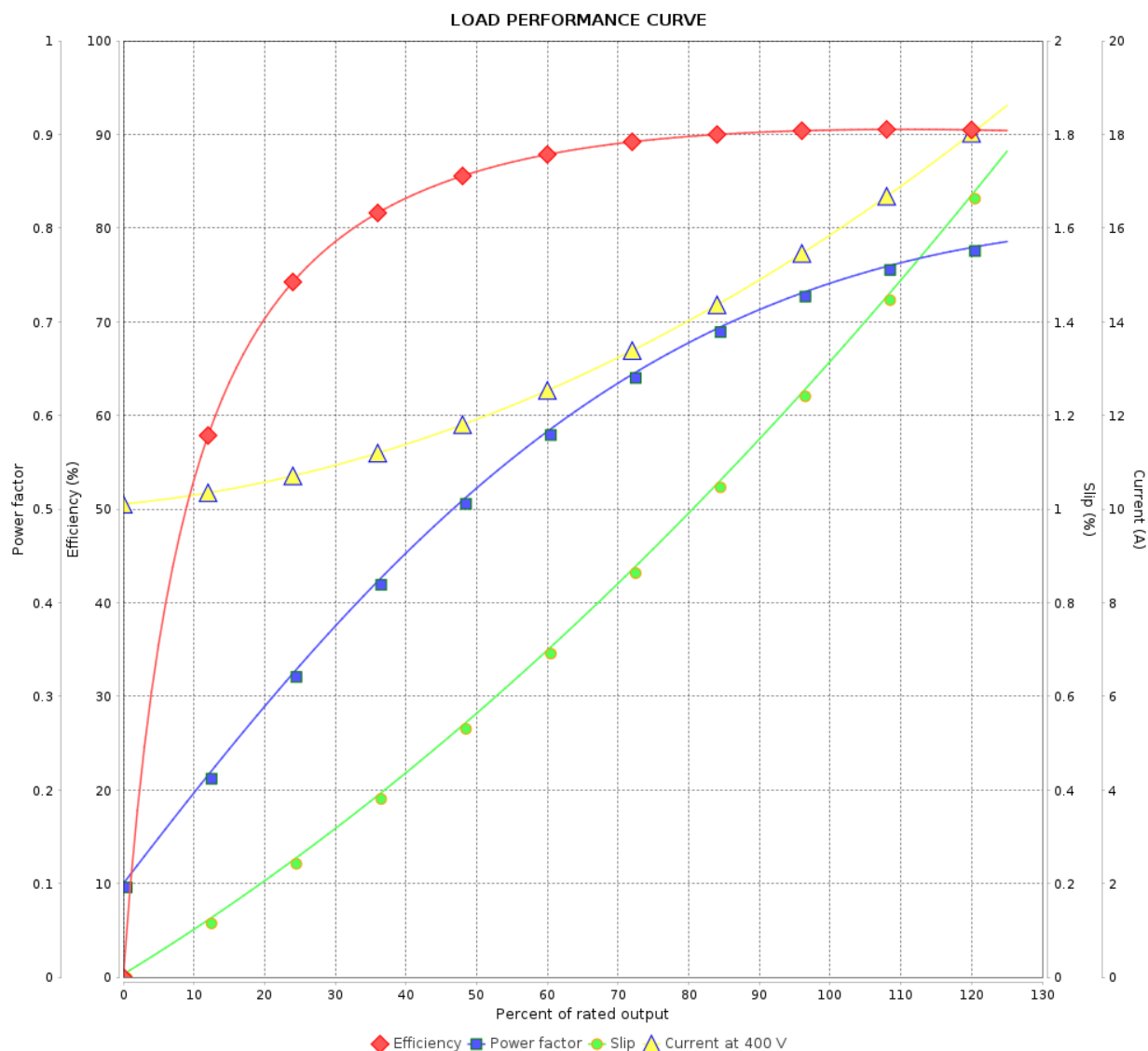
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA
Premium Efficiency Three-Phase

Product code : 11169383



Performance : 400 V 50 Hz 4P IE3

Rated current : 16.2 A
LRC : 6.8
Rated torque : 4.90 kgfm
Locked rotor torque : 280 %
Breakdown torque : 390 %
Rated speed : 1480 rpm

Moment of inertia (J) : 0.0878 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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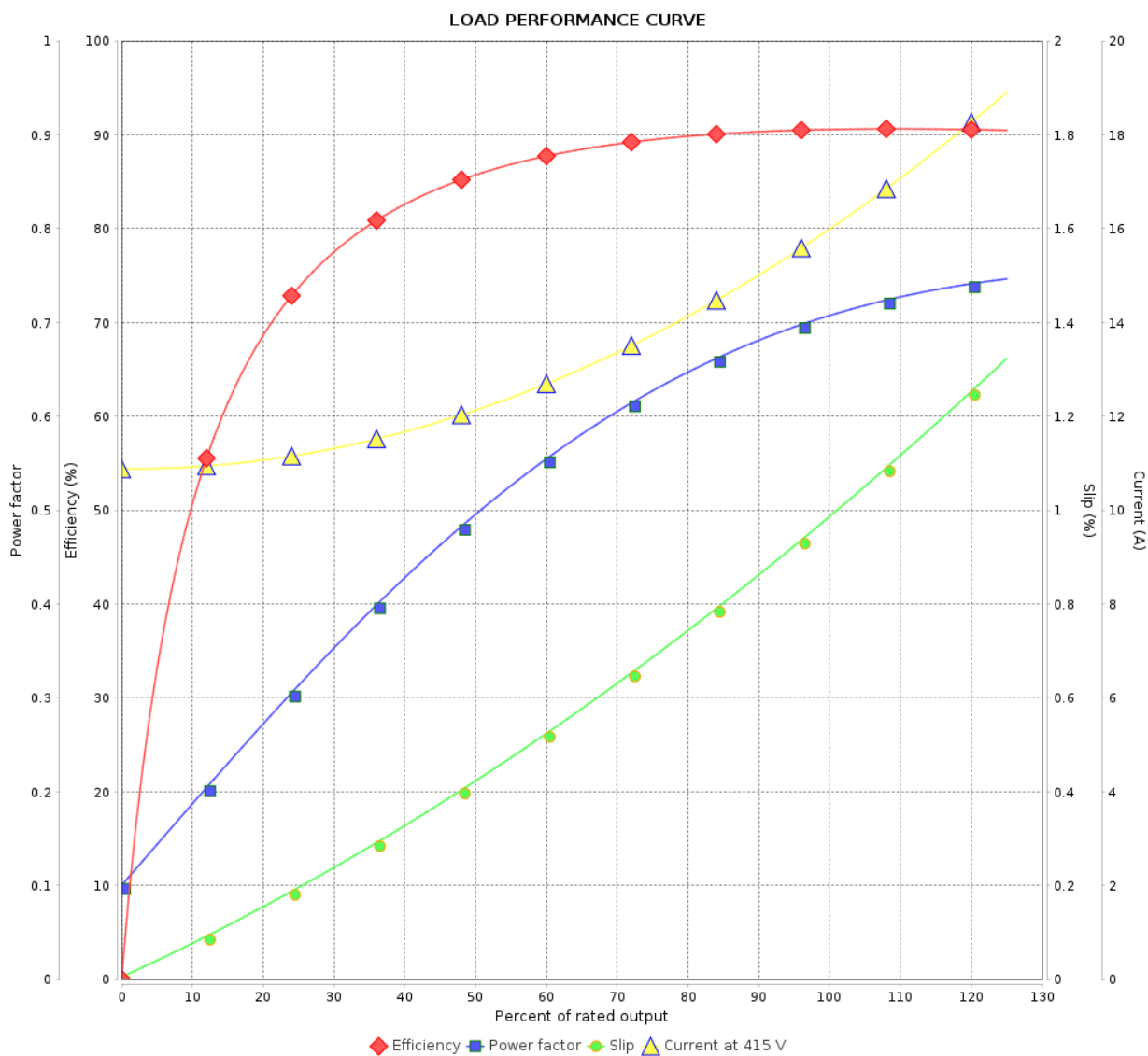
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA
Premium Efficiency Three-Phase

Product code : 11169383



Performance : 415 V 50 Hz 4P IE3

Rated current : 16.2 A
LRC : 7.0
Rated torque : 4.89 kgfm
Locked rotor torque : 300 %
Breakdown torque : 400 %
Rated speed : 1485 rpm

Moment of inertia (J) : 0.0878 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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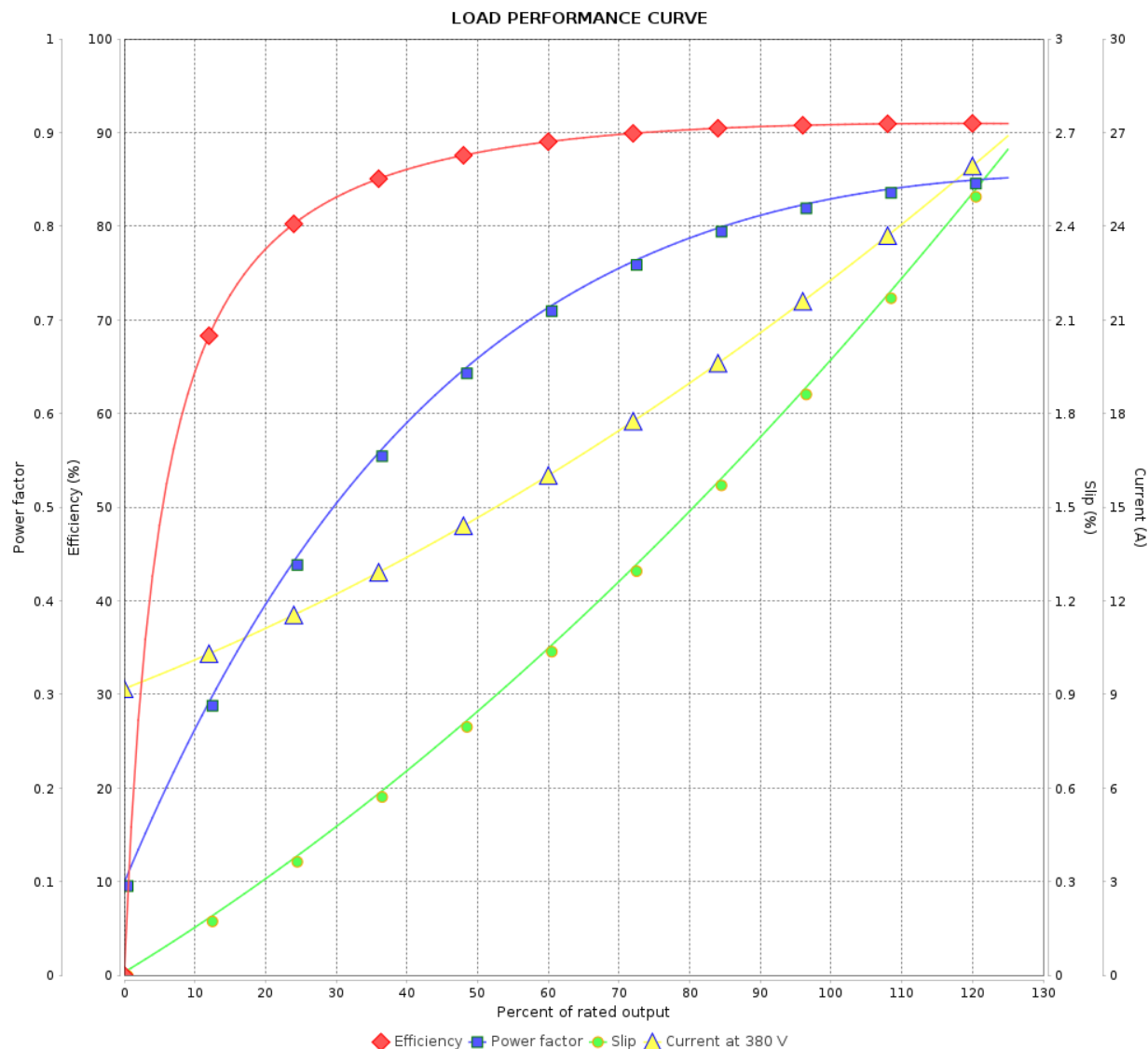
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : Close Coupled Pump NEMA
Premium Efficiency Three-Phase

Product code : 11169383



Performance : 380 V 50 Hz 4P IE2

Rated current : 22.1 A
LRC : 5.4
Rated torque : 7.41 kgfm
Locked rotor torque : 180 %
Breakdown torque : 280 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.0878 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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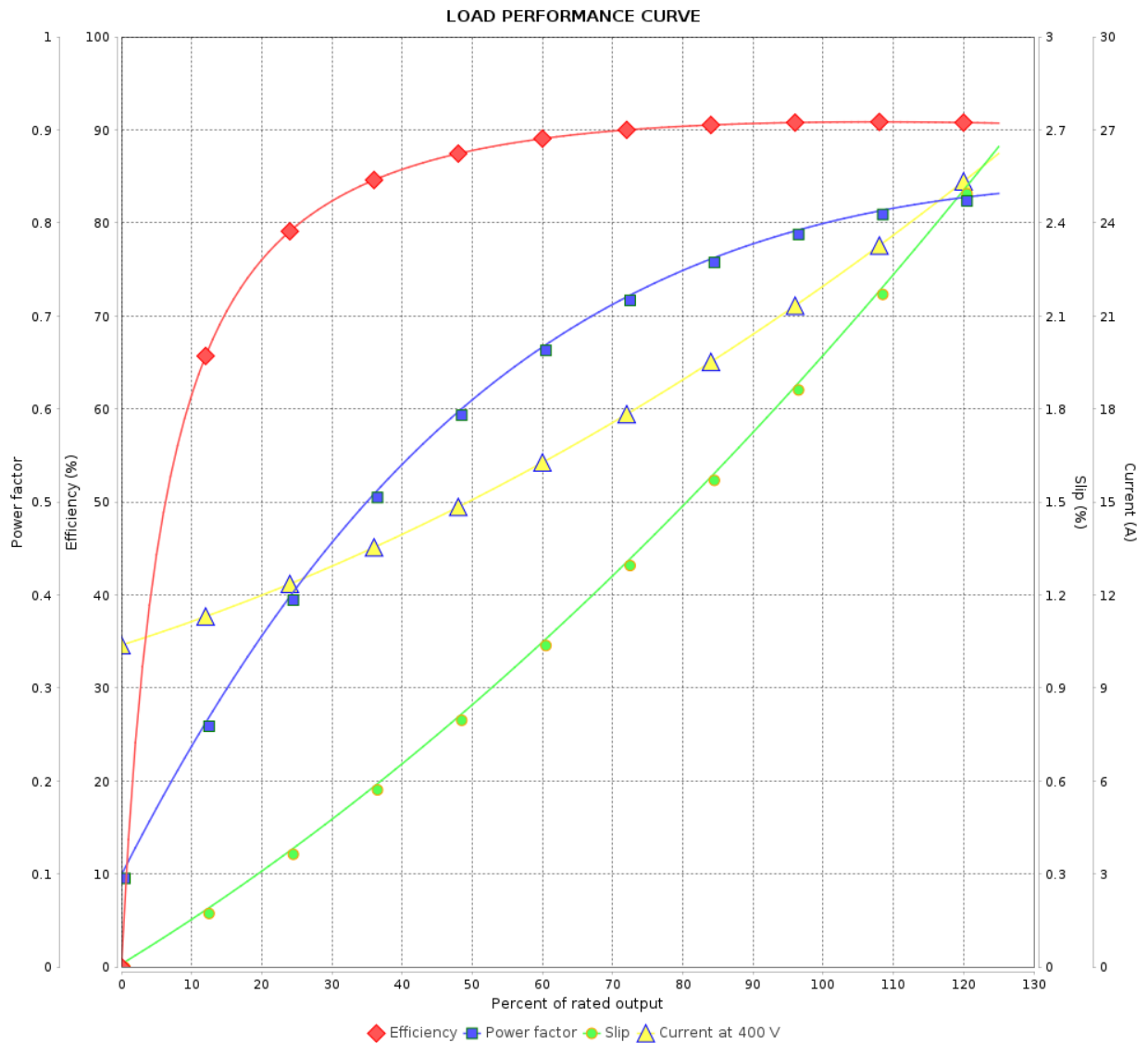
Three Phase Induction Motor - Squirrel Cage



Customer :

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Performance : 400 V 50 Hz 4P IE2

Rated current : 21.8 A
LRC : 5.7
Rated torque : 7.41 kgfm
Locked rotor torque : 190 %
Breakdown torque : 310 %
Rated speed : 1470 rpm

Moment of inertia (J) : 0.0878 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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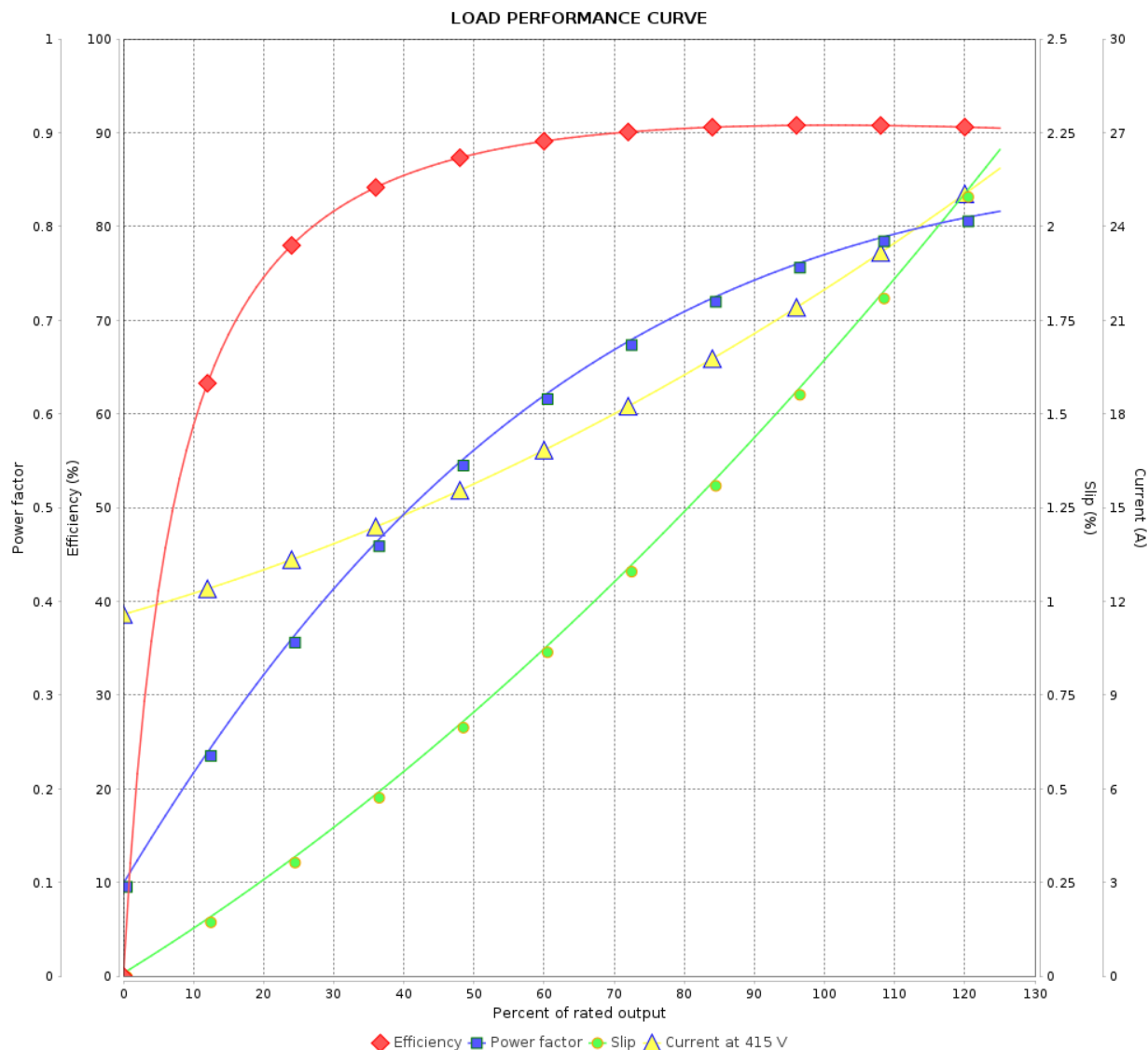
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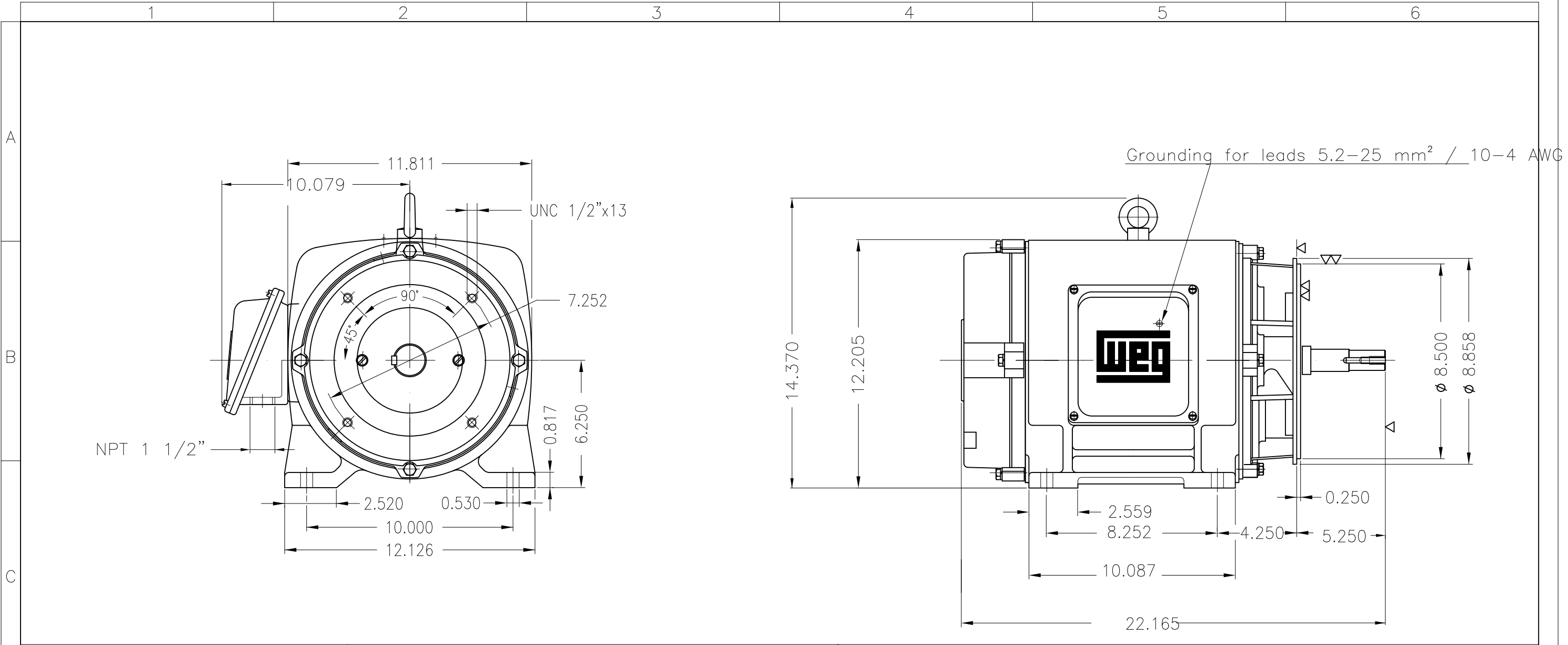


Performance : 415 V 50 Hz 4P IE2

Rated current : 21.8 A
LRC : 6.0
Rated torque : 7.38 kgfm
Locked rotor torque : 210 %
Breakdown torque : 340 %
Rated speed : 1475 rpm

Moment of inertia (J) : 0.0878 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.15
Temperature rise : 80 K
Design : B

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D						
			EUNC 1/2"-13 WEG WPR-7309			
E	Without switch off thermal protection				15 HP 04 Poles 60 Hz	
	Color RAL 5009					
	Painting plan 203A					
	Mounting B34R(D)					