

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency Three-Phase Product code : 11529716

Frame	: 364/5TS	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	: 389 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.5023 kgm ²
Design	: B		

Output [HP]	75	60	60	60	75	75	75
Poles	2	2	2	2	2	2	2
Frequency [Hz]	60	50	50	50	50	50	50
Rated voltage [V]	230/460	380	400	415	380	400	415
Rated current [A]	164/81.9	80.8	78.5	75.7	100	94.8	91.4
L. R. Amperes [A]	1097/549	525	557	598	520	559	594
LRC [A]	6.7x(Code G)	6.5x(Code G)	7.1x(Code H)	7.9x(Code J)	5.2x(Code E)	5.9x(Code F)	6.5x(Code G)
No load current [A]	36.0/18.0	19.0	20.0	21.5	19.0	20.0	21.5
Rated speed [RPM]	3555	2955	2960	2965	2930	2945	2950
Slip [%]	1.25	1.50	1.33	1.17	2.33	1.83	1.67
Rated torque [kgfm]	15.3	14.7	14.7	14.7	18.6	18.5	18.5
Locked rotor torque [%]	200	210	229	250	160	175	190
Breakdown torque [%]	250	260	390	310	200	220	240
Service factor	1.25	1.00	1.00	1.00	1.00	1.00	1.00
Temperature rise	80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time	18s (cold) 10s (hot)	39s (cold) 22s (hot)	39s (cold) 22s (hot)	37s (cold) 21s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)	12s (cold) 7s (hot)
Noise level ²	79.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)	74.0 dB(A)
Efficiency (%)	25%						
	50%	92.4	91.2	91.5	91.8	92.4	93.0
	75%	93.6	92.5	93.0	93.1	93.0	93.6
	100%	93.6	94.0	94.0	94.0	92.4	93.0
Power Factor	25%						
	50%	0.83	0.75	0.72	0.70	0.86	0.83
	75%	0.88	0.85	0.83	0.82	0.89	0.88
	100%	0.90	0.90	0.88	0.88	0.90	0.90

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

Losses (%)	P1 (0,9;1,0)	6.4	6.4	6.4	6.4	6.4	6.4
	P2 (0,5;1,0)	4.8	4.8	4.8	4.8	4.8	4.8
	P3 (0,25;1,0)	4.5	4.5	4.5	4.5	4.5	4.5
	P4 (0,9;0,5)	3.2	3.2	3.2	3.2	3.2	3.2
	P5 (0,5;0,5)	1.8	1.8	1.8	1.8	1.8	1.8
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.6	0.6	0.6	0.6	0.6	0.6

Bearing type	Drive end	Non drive end	Foundation loads
	: 6314 C3	: 6314 C3	
	Sealing	WSeal	
	Lubrication interval	4000 h	
	Lubricant amount	27 g	
Lubricant type		Mobil Polyrex EM	Max. traction : 302 kgf
			Max. compression : 692 kgf

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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Three Phase Induction Motor - Squirrel Cage



Customer : _____

Notes
USABLE @208V 181A SF 1.10 SFA 199A

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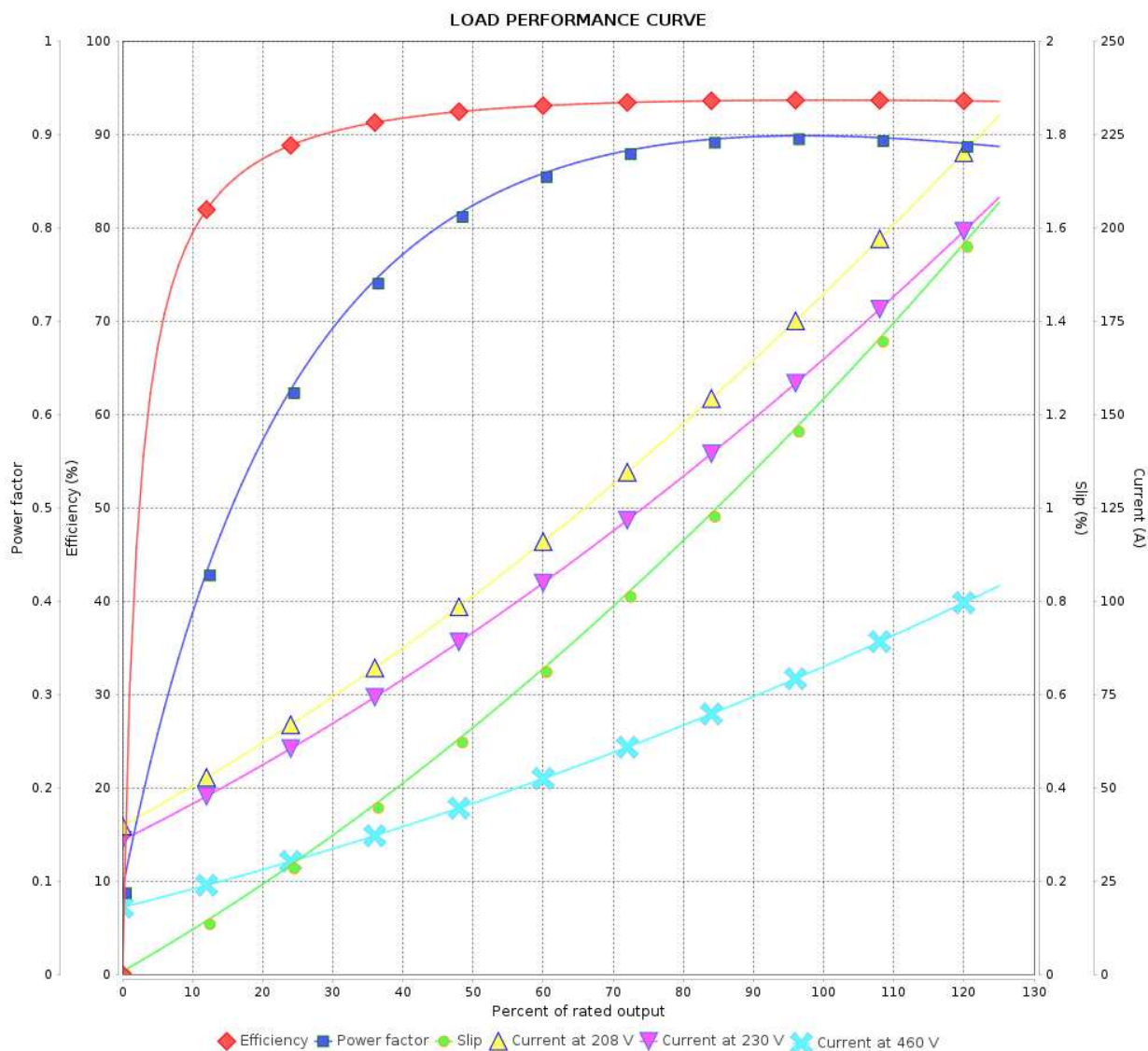
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11529716



Performance : 230/460 V 60 Hz 2P

Rated current : 164/81.9 A
LRC : 6.7
Rated torque : 15.3 kgfm
Locked rotor torque : 200 %
Breakdown torque : 250 %
Rated speed : 3555 rpm

Moment of inertia (J) : 0.5023 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.25
Temperature rise : 80 K
Design : B

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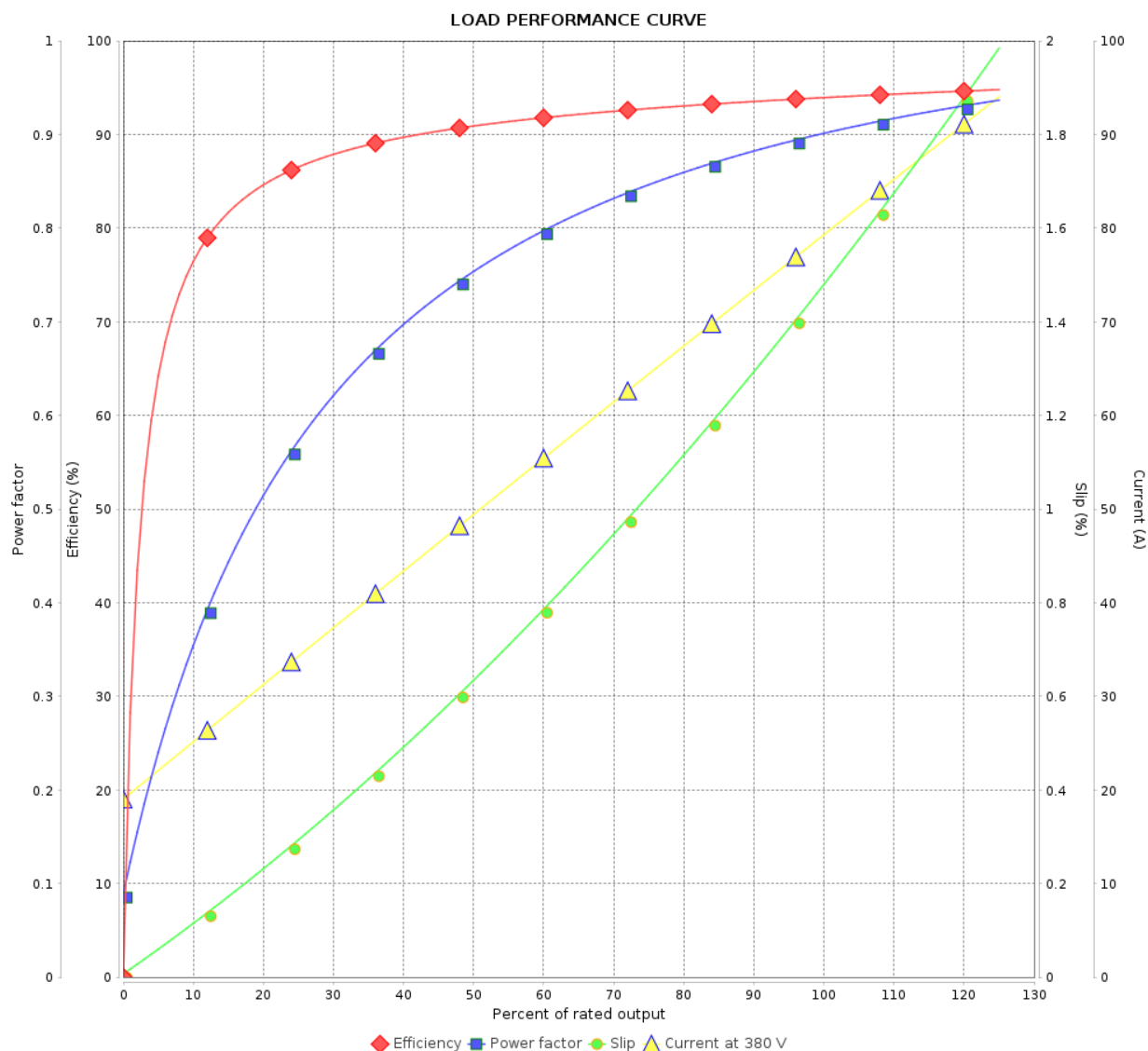
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11529716



Performance : 380 V 50 Hz 2P IE3

Rated current : 80.8 A
LRC : 6.5
Rated torque : 14.7 kgfm
Locked rotor torque : 210 %
Breakdown torque : 260 %
Rated speed : 2955 rpm

Moment of inertia (J) : 0.5023 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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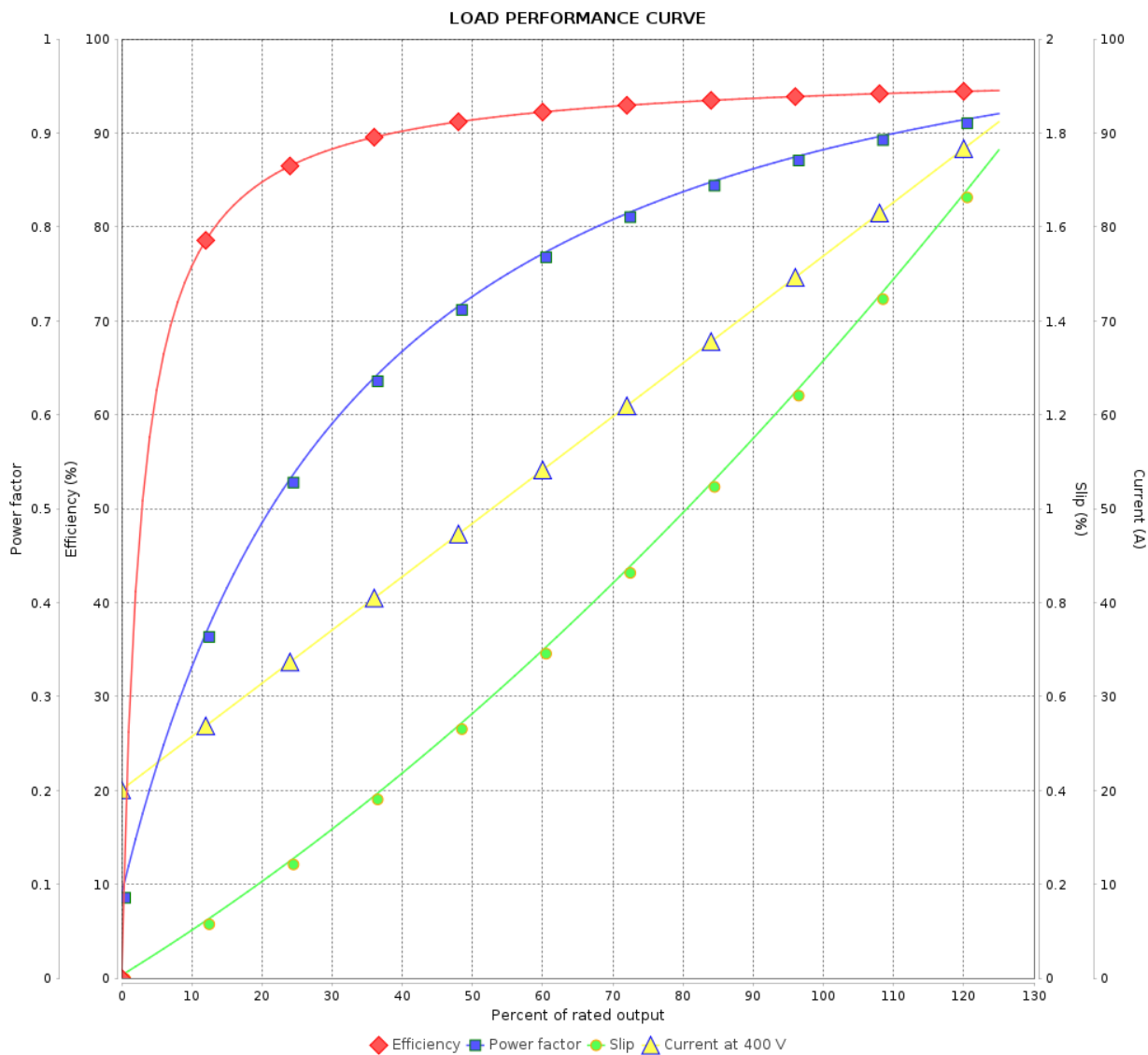
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11529716



Performance : 400 V 50 Hz 2P IE3

Rated current : 78.5 A
LRC : 7.1
Rated torque : 14.7 kgfm
Locked rotor torque : 229 %
Breakdown torque : 390 %
Rated speed : 2960 rpm

Moment of inertia (J) : 0.5023 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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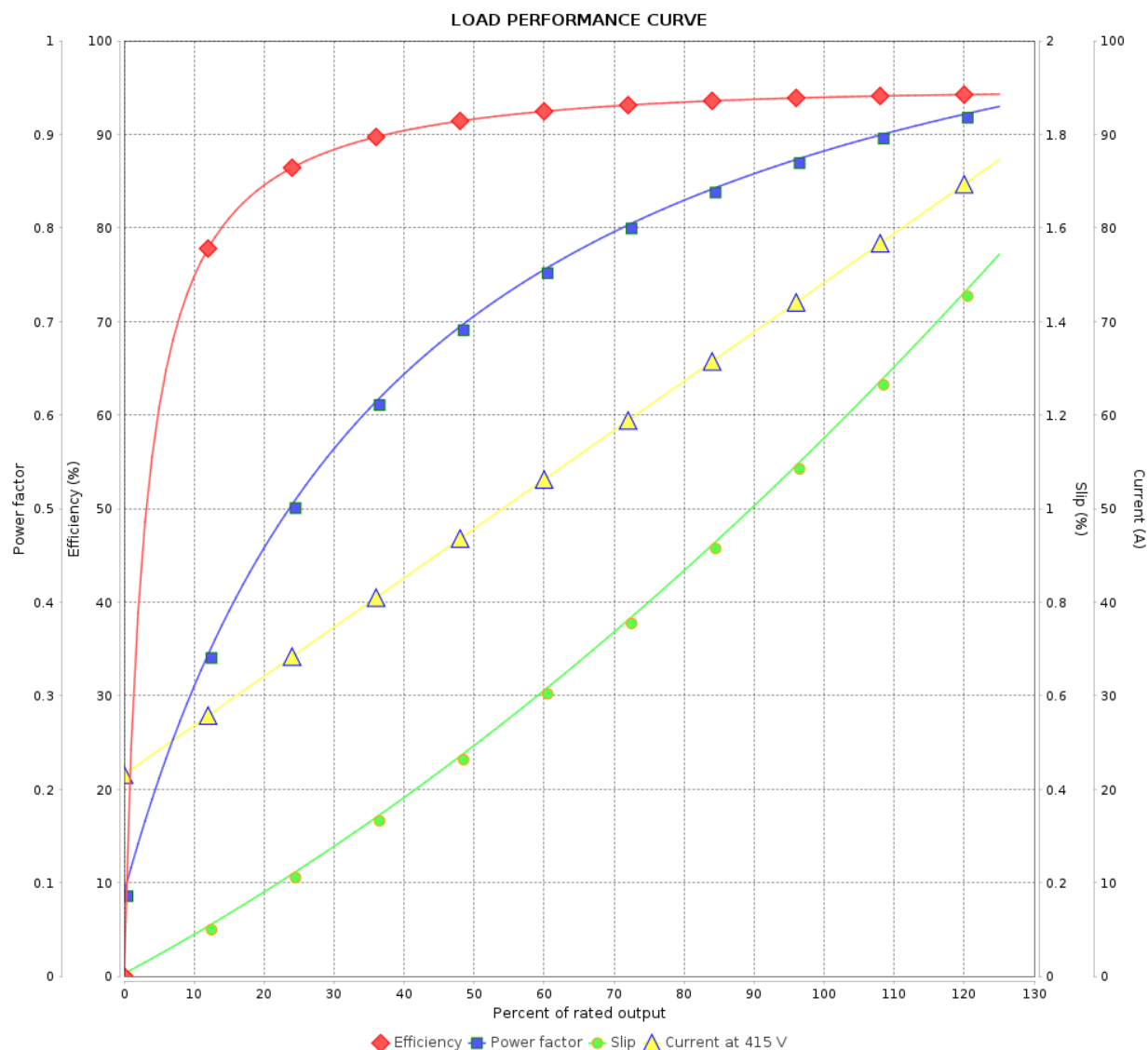
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11529716



Performance : 415 V 50 Hz 2P IE3

Rated current : 75.7 A
LRC : 7.9
Rated torque : 14.7 kgfm
Locked rotor torque : 250 %
Breakdown torque : 310 %
Rated speed : 2965 rpm

Moment of inertia (J) : 0.5023 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 80 K
Design : B

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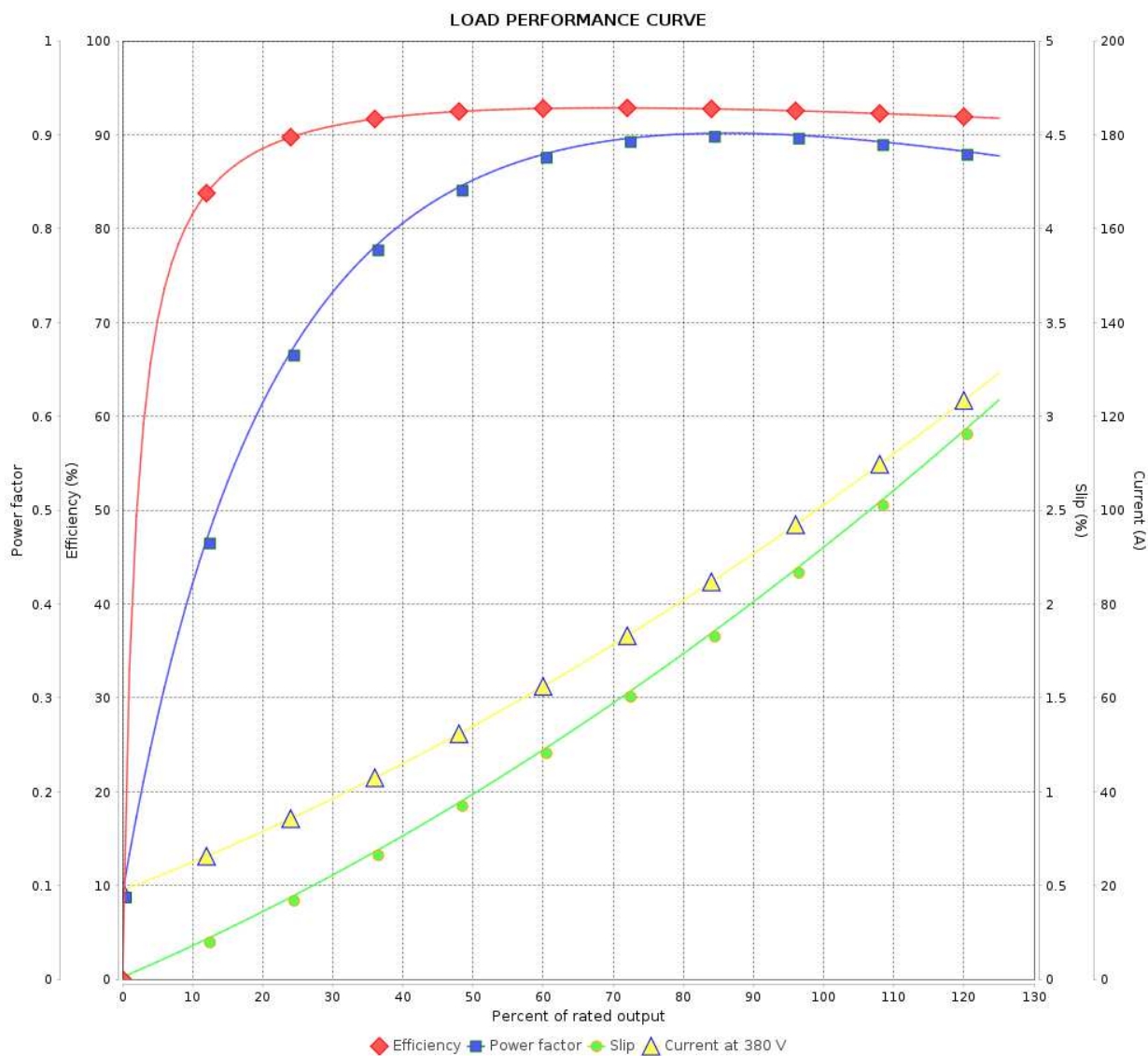
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11529716



Performance : 380 V 50 Hz 2P IE1

Rated current : 100 A
LRC : 5.2
Rated torque : 18.6 kgfm
Locked rotor torque : 160 %
Breakdown torque : 200 %
Rated speed : 2930 rpm

Moment of inertia (J) : 0.5023 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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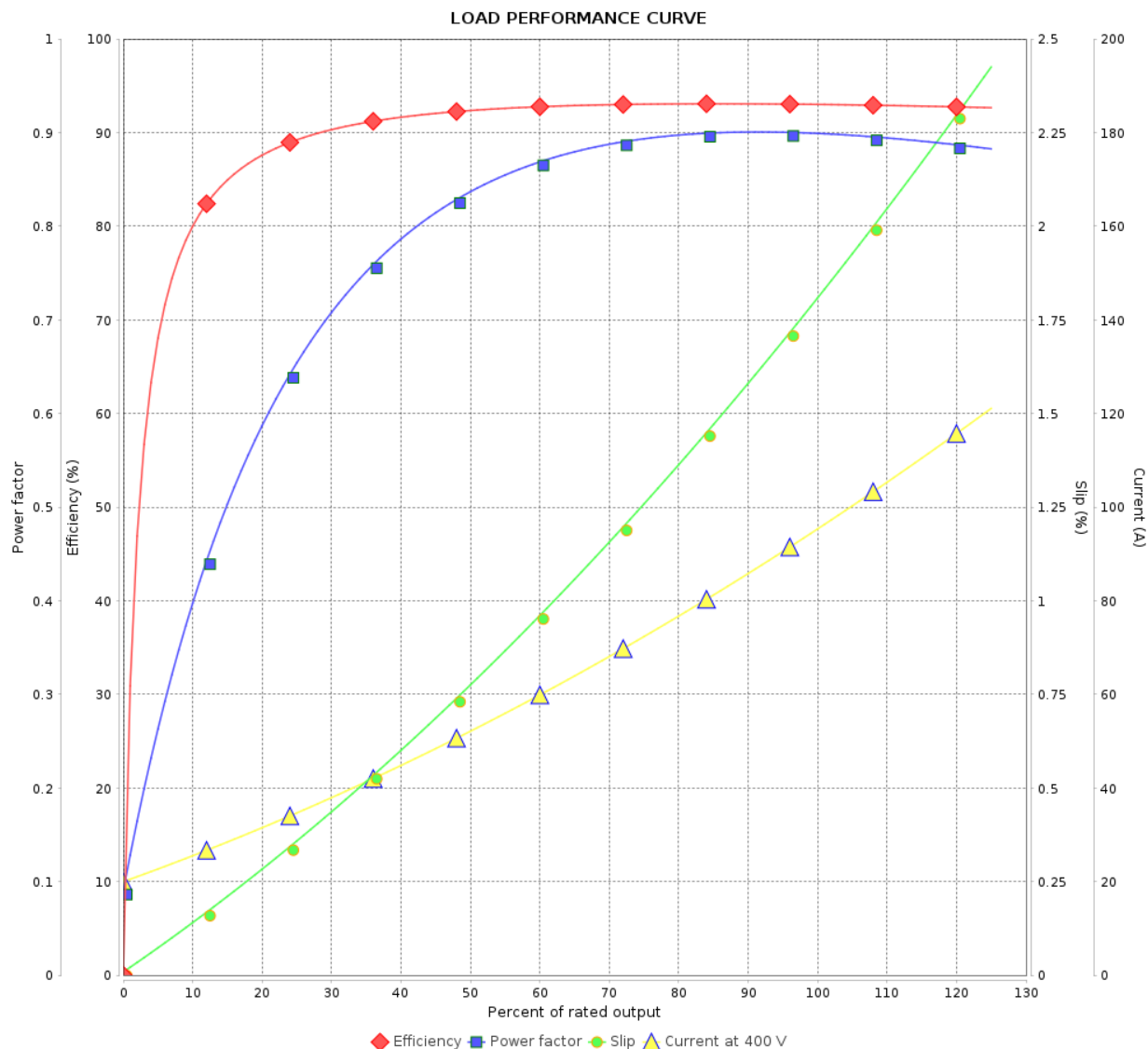
Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W22 NEMA Premium Efficiency
Three-Phase

Product code : 11529716



Performance : 400 V 50 Hz 2P IE1

Rated current : 94.8 A
LRC : 5.9
Rated torque : 18.5 kgfm
Locked rotor torque : 175 %
Breakdown torque : 220 %
Rated speed : 2945 rpm

Moment of inertia (J) : 0.5023 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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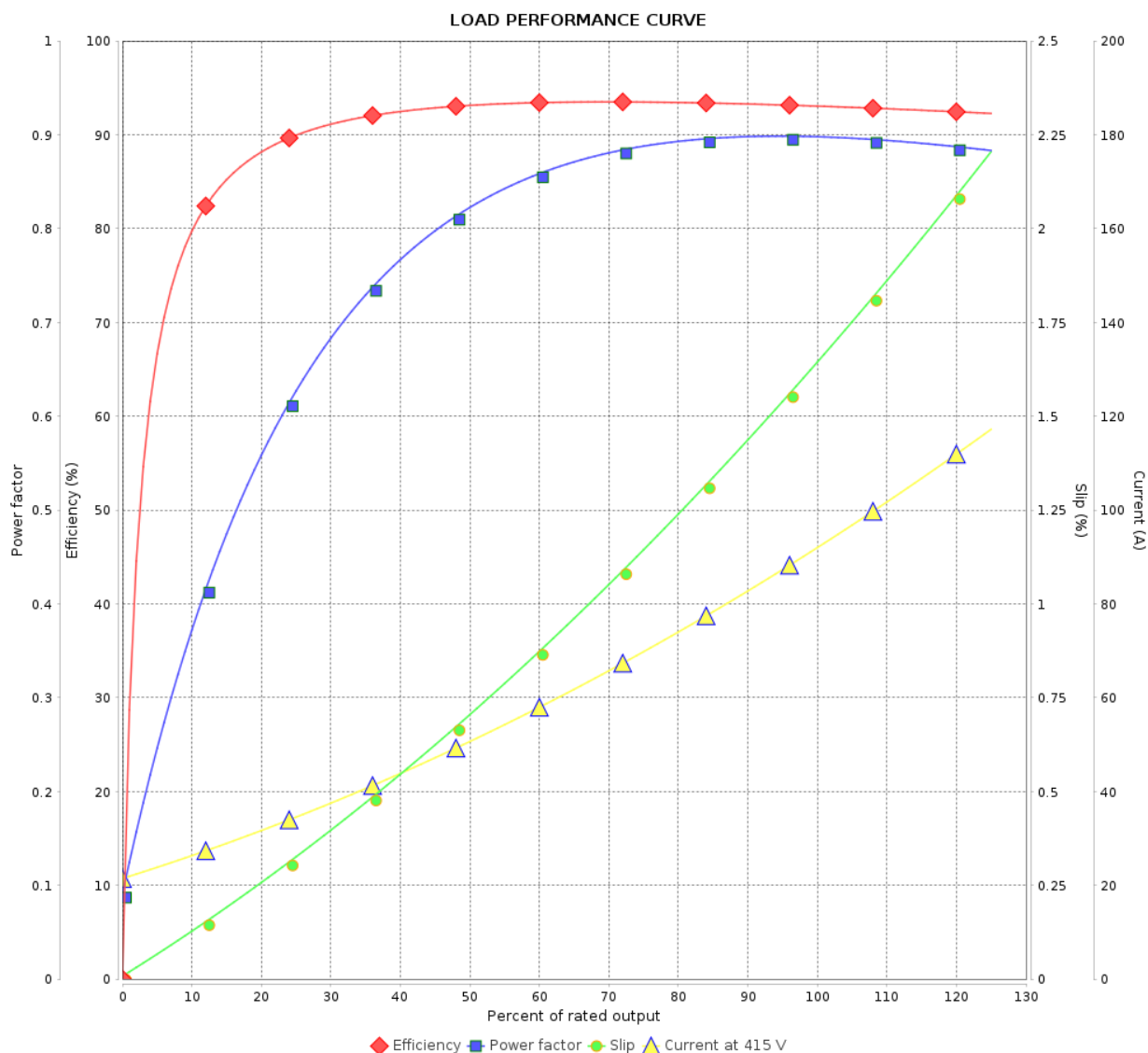
Three Phase Induction Motor - Squirrel Cage



Customer :

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Three-Phase

Product code : 11529716

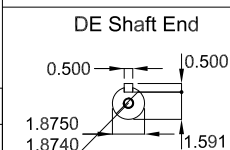
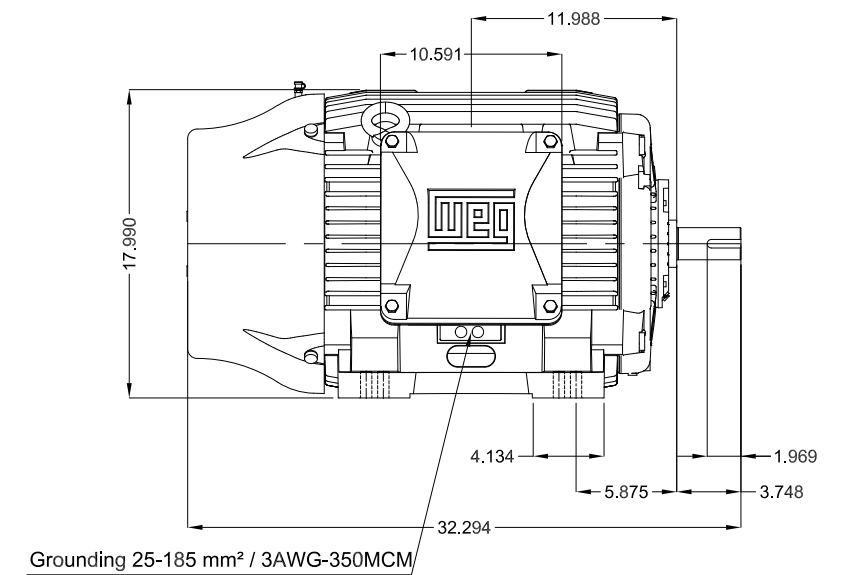
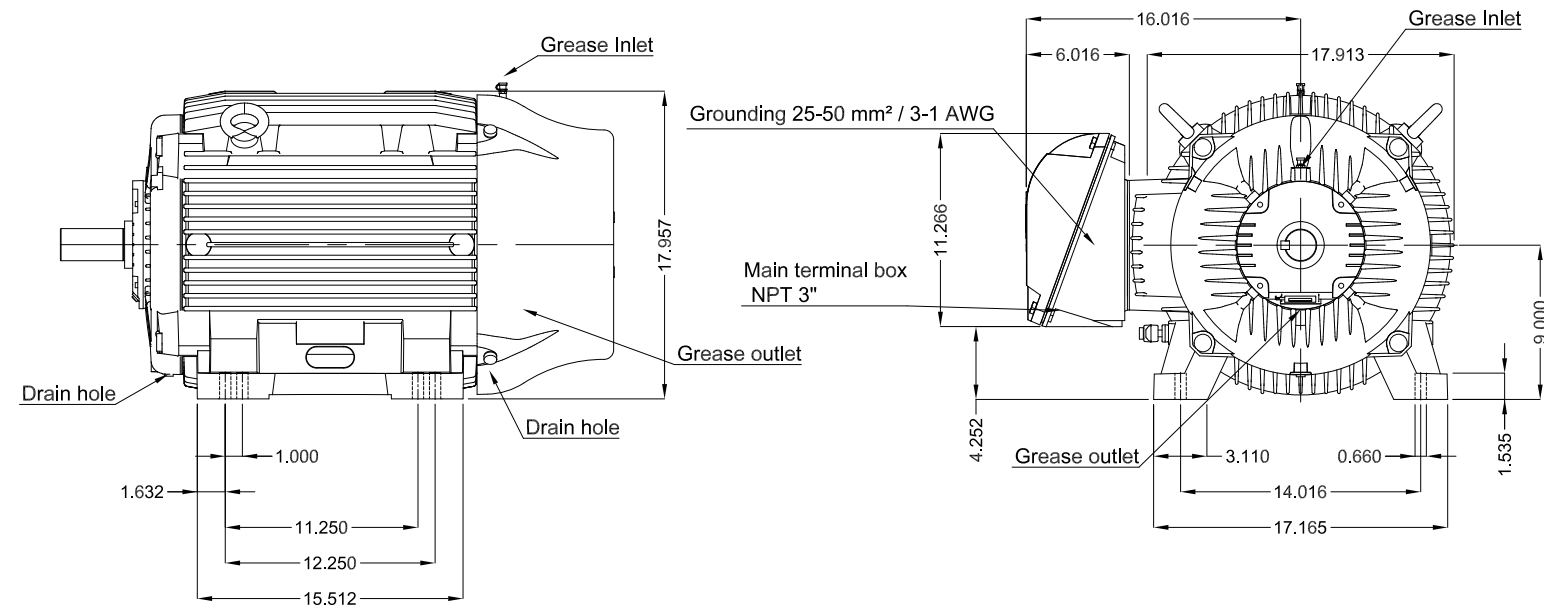


Performance : 415 V 50 Hz 2P IE1

Rated current : 91.4 A
LRC : 6.5
Rated torque : 18.5 kgfm
Locked rotor torque : 190 %
Breakdown torque : 240 %
Rated speed : 2950 rpm

Moment of inertia (J) : 0.5023 kgm²
Duty cycle : Cont.(S1)
Insulation class : F
Service factor : 1.00
Temperature rise : 105 K
Design : B

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Without vertical jackscrews
Color RAL 5009
Painting plan 203A
Mounting B3R(D)

75 HP 02 Poles 60 Hz										A
				HYBRISUSER					00	
ECM		LOC		SUMMARY OF MODIFICATIONS			EXECUTED		CHECKED	
							RELEASED		DATE	
EXECUTED		HYBRISUSER		 THREE PH. MOTOR W22 NEMA PREM. EFF. FRAME 364/5TS IP55 TEFC			PREVIEW WDD 00			
CHECKED										
RELEASED										
REL. DATE										
							SHEET		/	