DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129041

Frame	: 364/5HP	Cooling method	: IC411 - TEFC
Insulation class	: F	Mounting	: W-6
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]	: 428 kg
Protection degree	: IP55	Moment of inertia (J)	: 0.9798 kgm²
Design	: B		

Output [HP]		75	60	60	60	75	75	75
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]		174/87.2	88.5	84.9	82.7	106	102	98.7
L. R. Amperes [A]		1116/558	620	637	662	541	571	602
LRC [A]		6.4x(Code G)	7.0x(Code H)	7.5x(Code J)	8.0x(Code J)	5.1x(Code E)	5.6x(Code F)	6.1x(Code G)
No load current [A]		66.0/33.0	33.0	35.0	38.0	33.0	35.0	38.0
Rated speed [RPM]		1780	1480	1480	1485	1470	1475	1480
Slip [%]		1.11	1.33	1.33	1.00	2.00	1.67	1.33
Rated torque [kgfm]		30.6	29.4	29.4	29.3	37.0	36.9	36.8
Locked rotor torque [%]		240	210	240	260	170	200	210
Breakdown torque [%]		260	250	280	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		25s (cold) 14s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)	18s (cold) 10s (hot)
Noise level[2]		67.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)	63.0 dB(A)
Efficiency (%)	25%	0.000				0.000		
	50%	94.5	93.7	93.6	93.5	94.5	94.5	94.1
	75%	95.0	94.2	94.2	94.2	94.1	94.5	94.5
	100%	95.4	94.2	94.4	94.6	93.6	94.1	94.5
Power Factor	25%	0.00				0.00		
	50%	0.68	0.68	0.64	0.61	0.75	0.70	0.67
	75%	0.78	0.78	0.75	0.73	0.82	0.80	0.78
	100%	0.83	0.82	0.81	0.80	0.84	0.83	0.82

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

Losses (%)	P1 (0,9;1,0)	4.7	4.7	4.7	4.7	4.7	4.7	4.7
	P2 (0,5;1,0)	3.8	3.8	3.8	3.8	3.8	3.8	3.8
	P3 (0,25;1,0)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
	P4 (0,9;0,5)	2.4	2.4	2.4	2.4	2.4	2.4	2.4
	P5 (0,5;0,5)	1.6	1.6	1.6	1.6	1.6	1.6	1.6
	P6 (0,5;0,25)	1.1	1.1	1.1	1.1	1.1	1.1	1.1
	P7 (0,25;0,25)	0.7	0.7	0.7	0.7	0.7	0.7	0.7

		Drive end	Non drive end
Bearing type	:	6316 C3	6314 C3
Sealing	:	Lip Seal	Lip Seal
Lubrication interval	:	5000 h	6000 h
Lubricant amount	:	34 g	27 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction

Max. compression

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 186A SF 1.10 SFA 205A

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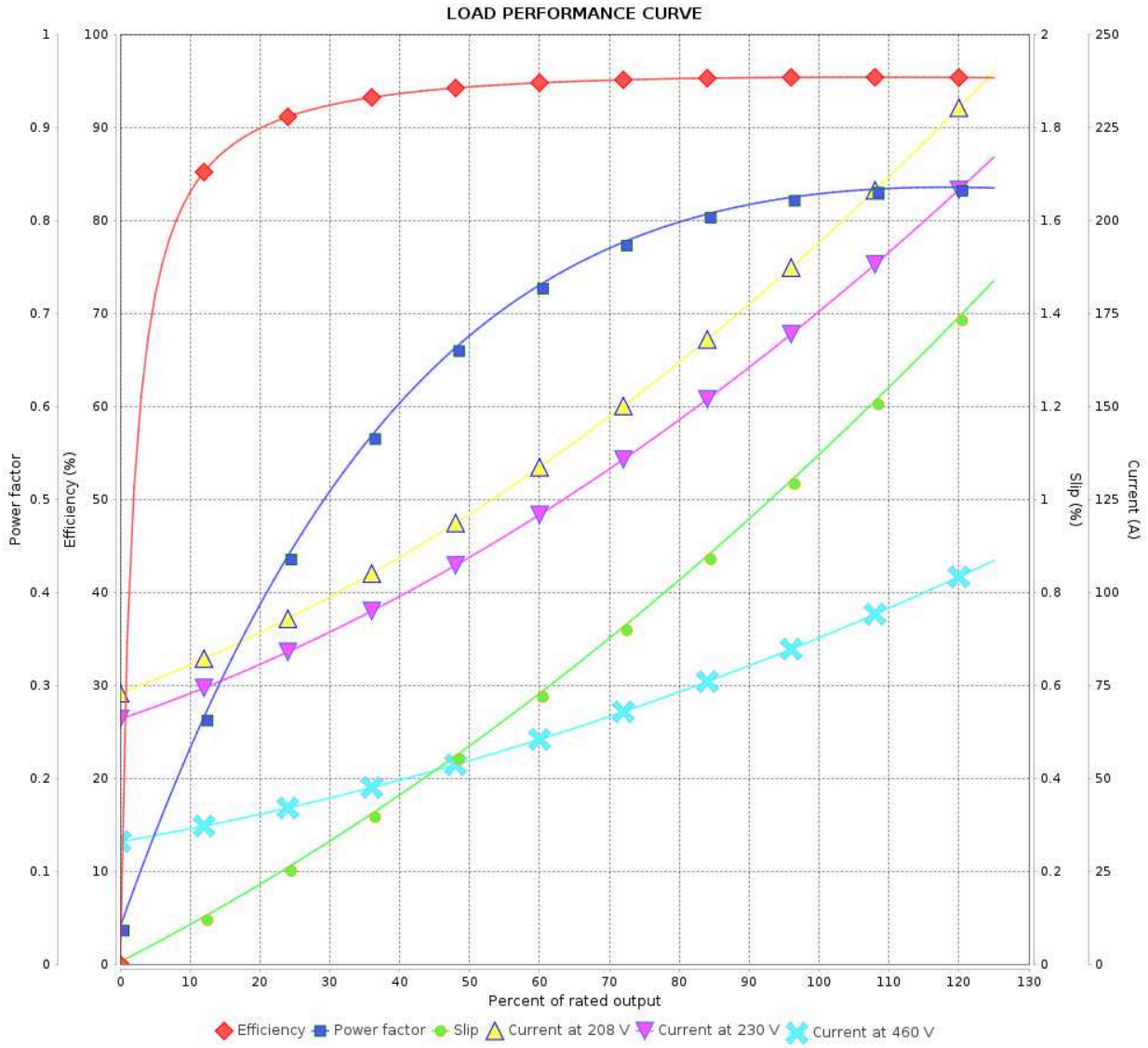
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129041



Performance	: 230/460 V 60 Hz 4P		
Rated current	: 174/87.2 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 6.4	Duty cycle	: Cont.(S1)
Rated torque	: 30.6 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.25
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1780 rpm	Design	: B

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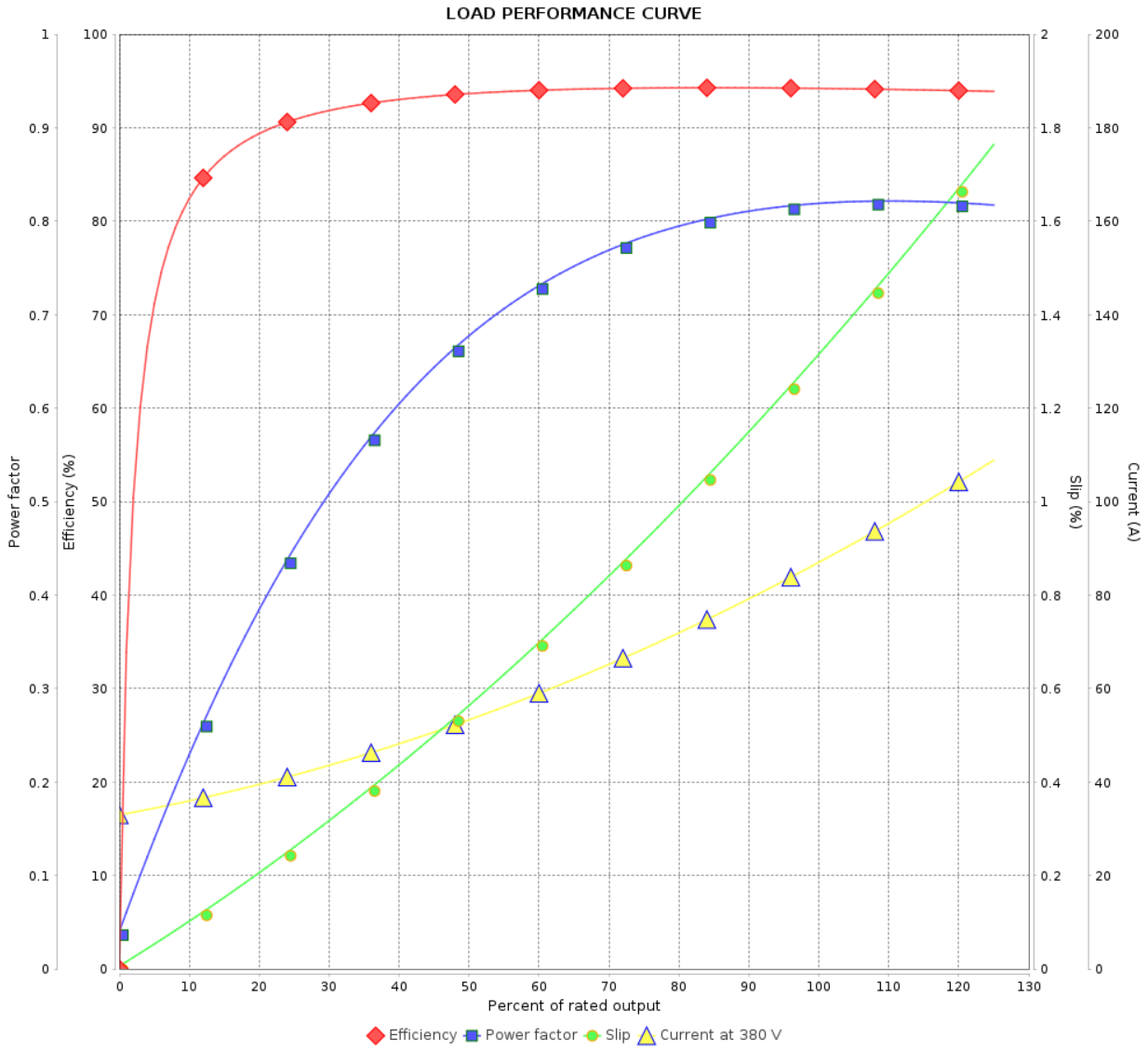
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129041



Performance	: 380 V 50 Hz 4P IE3		
Rated current	: 88.5 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 7.0	Duty cycle	: Cont.(S1)
Rated torque	: 29.4 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 250 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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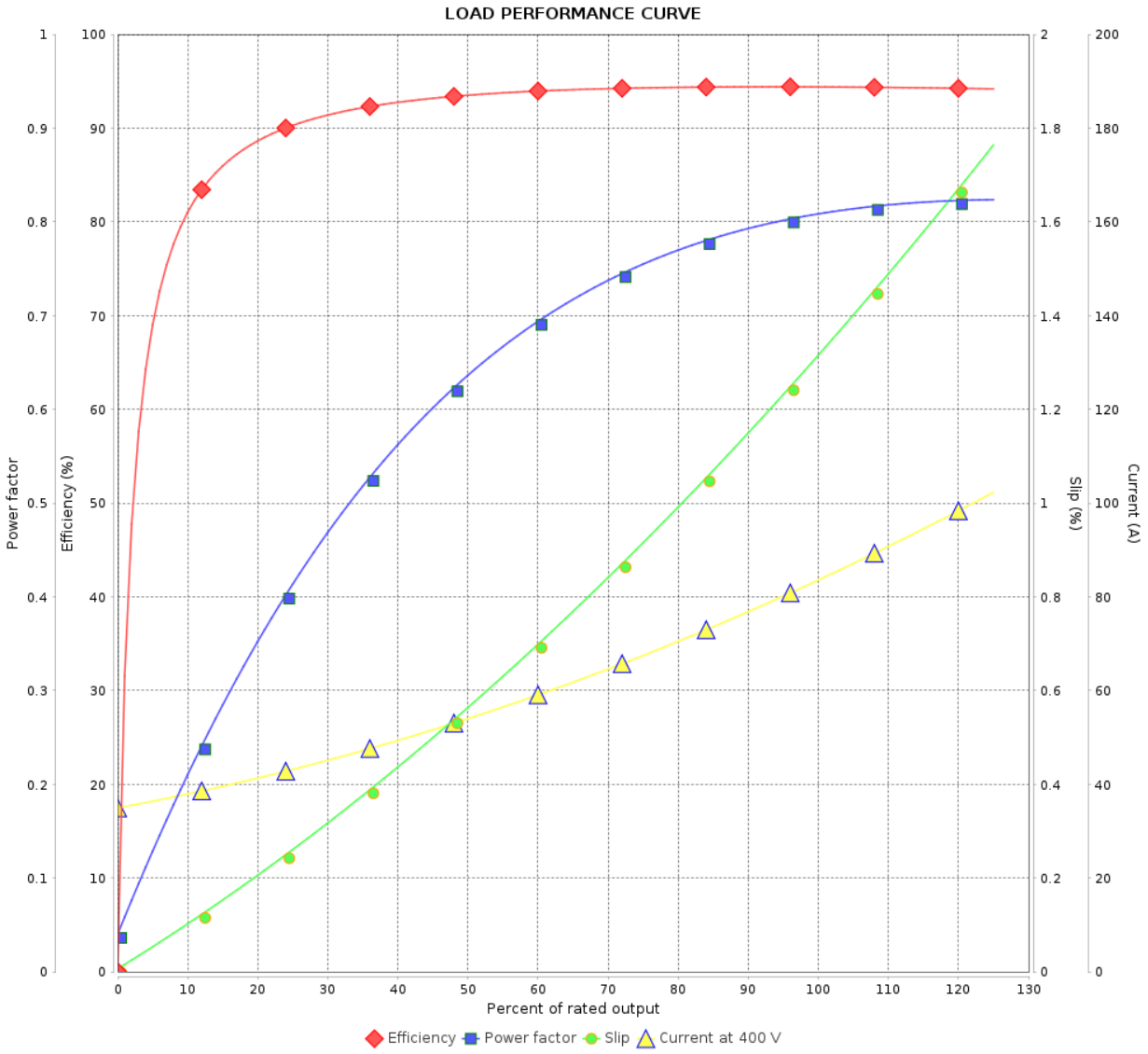
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129041



Performance	: 400 V 50 Hz 4P IE3		
Rated current	: 84.9 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 29.4 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 280 %	Temperature rise	: 80 K
Rated speed	: 1480 rpm	Design	: B

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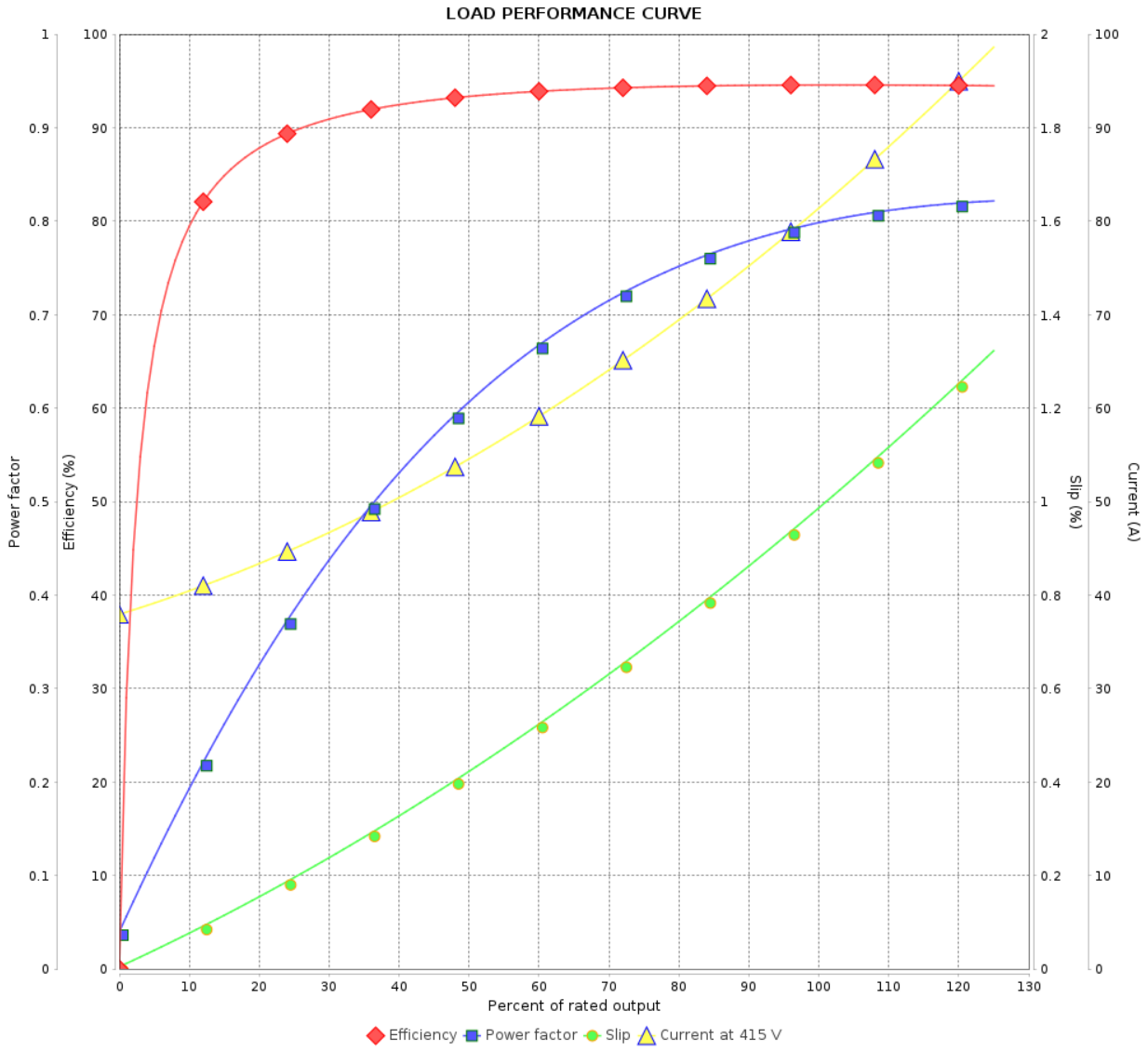
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Three Phase Induction Motor - Squirrel Cage

Customer	:		
Product line	: W22 P Base NEMA Premium Efficiency Three-Phase	Product code :	13129041



Performance	: 415 V 50 Hz 4P IE3		
Rated current	: 82.7 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 8.0	Duty cycle	: Cont.(S1)
Rated torque	: 29.3 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 1485 rpm	Design	: B

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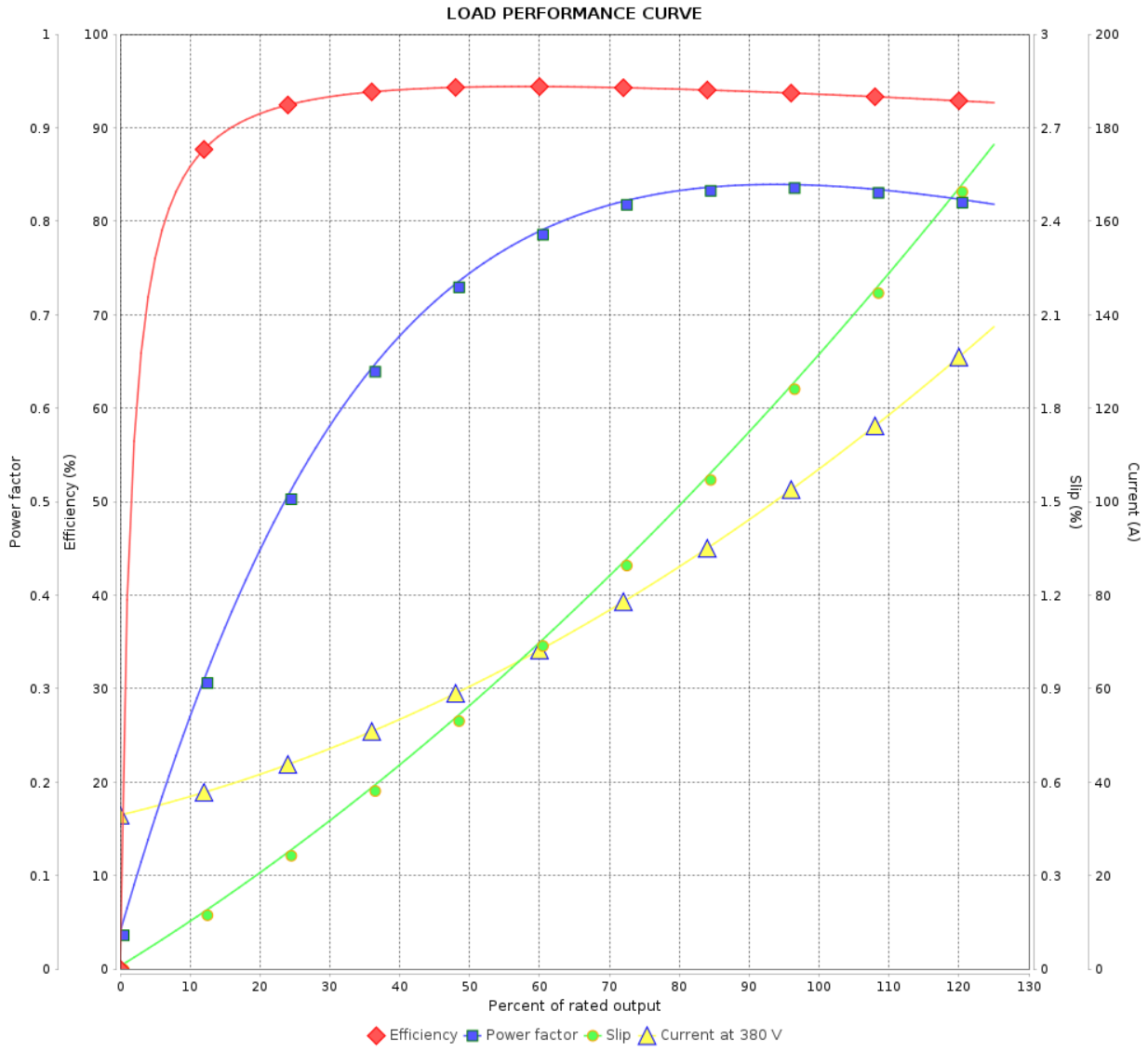
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129041



Performance	: 380 V 50 Hz 4P IE2		
Rated current	: 106 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 5.1	Duty cycle	: Cont.(S1)
Rated torque	: 37.0 kgfm	Insulation class	: F
Locked rotor torque	: 170 %	Service factor	: 1.00
Breakdown torque	: 200 %	Temperature rise	: 105 K
Rated speed	: 1470 rpm	Design	: B

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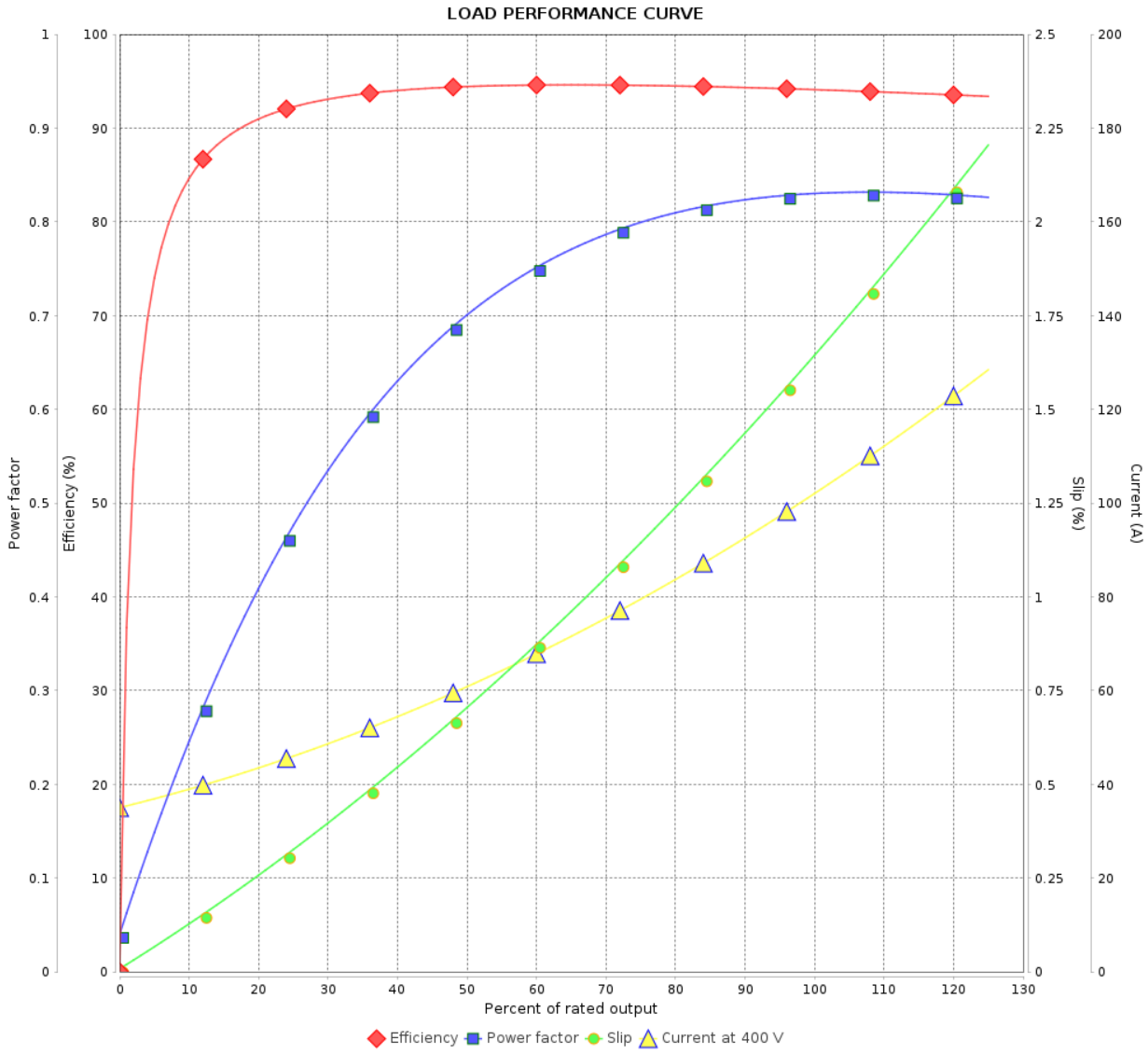
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129041



Performance	: 400 V 50 Hz 4P IE2		
Rated current	: 102 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 5.6	Duty cycle	: Cont.(S1)
Rated torque	: 36.9 kgfm	Insulation class	: F
Locked rotor torque	: 200 %	Service factor	: 1.00
Breakdown torque	: 220 %	Temperature rise	: 105 K
Rated speed	: 1475 rpm	Design	: B

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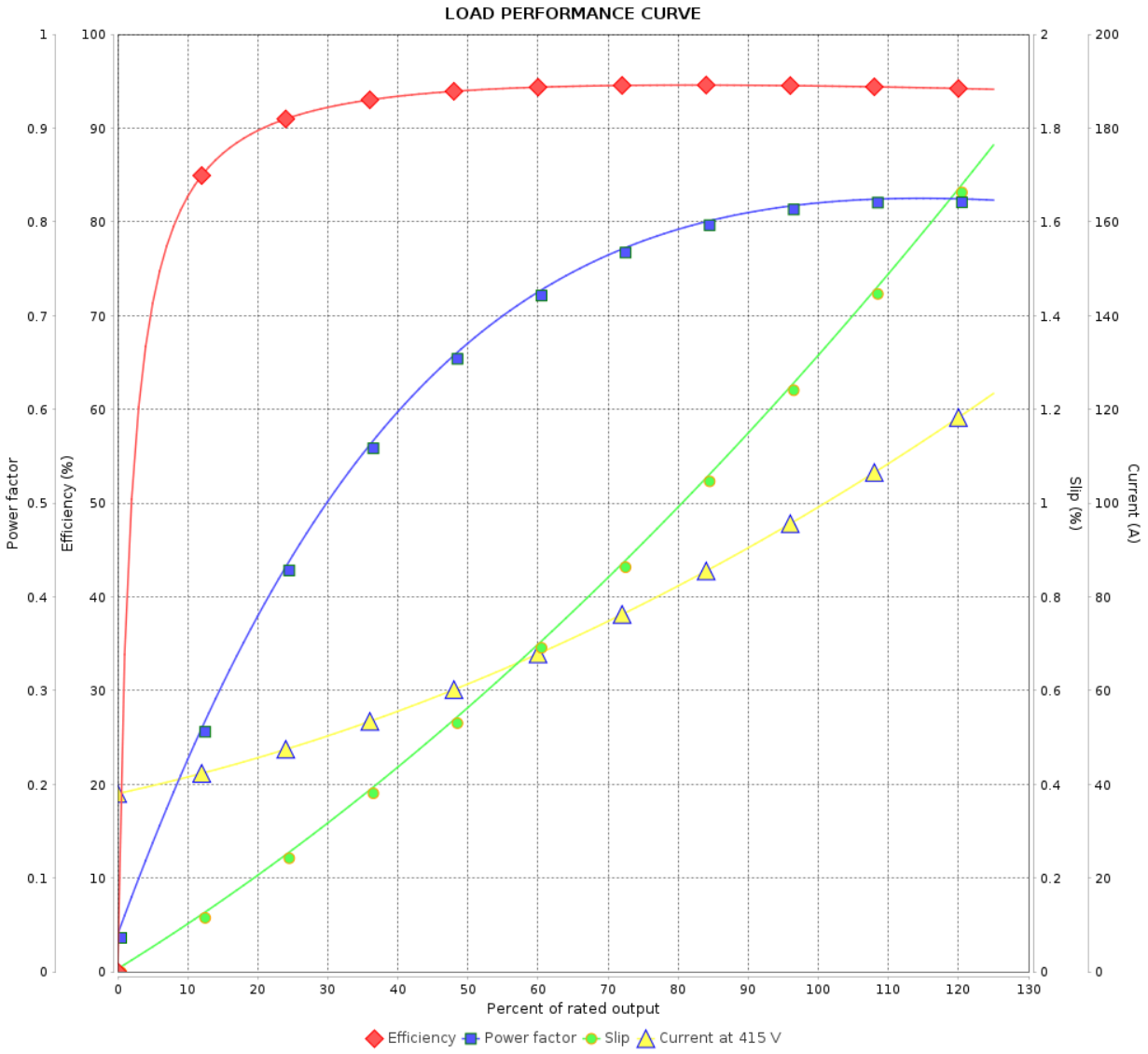
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W22 P Base NEMA Premium Efficiency Three-Phase

Product code : 13129041

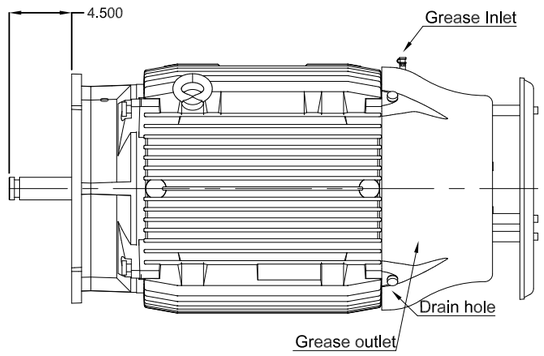


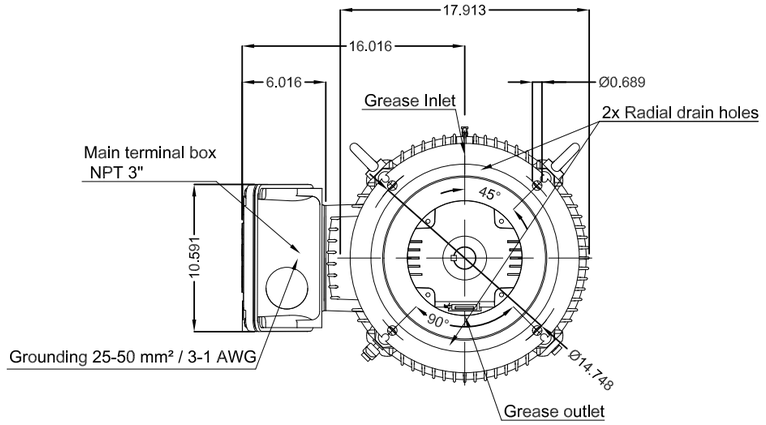
Performance	: 415 V 50 Hz 4P IE2		
Rated current	: 98.7 A	Moment of inertia (J)	: 0.9798 kgm²
LRC	: 6.1	Duty cycle	: Cont.(S1)
Rated torque	: 36.8 kgfm	Insulation class	: F
Locked rotor torque	: 210 %	Service factor	: 1.00
Breakdown torque	: 240 %	Temperature rise	: 105 K
Rated speed	: 1480 rpm	Design	: B

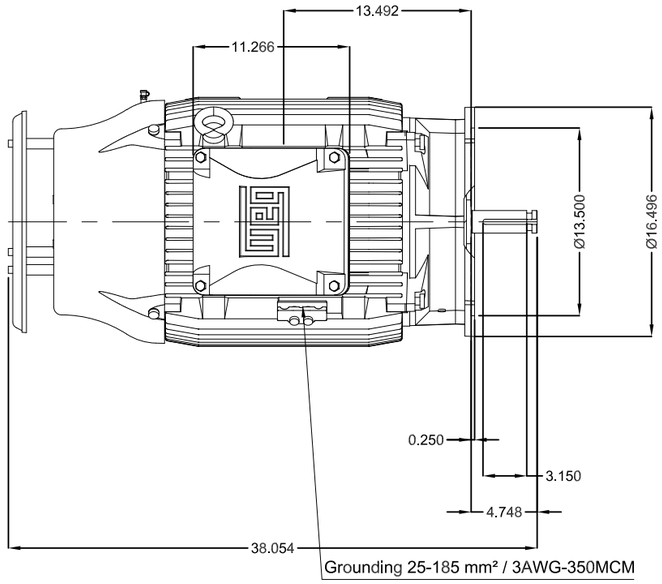
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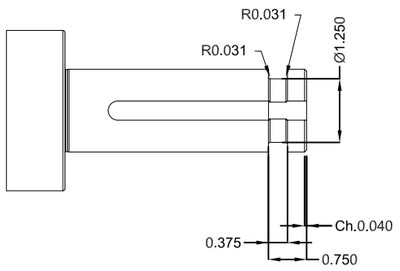
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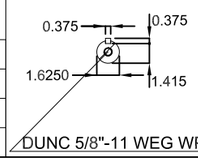








DE Shaft End



DUNC 5/8"-11 WEG WPR-7339

Color RAL 5009
Painting plan 203A
Mounting NEMA W-6
Mounting V1

75 HP 04 Poles 60 Hz | A

ECM	LOC	SUMMARY OF MODIFICATIONS	EXECUTED	CHECKED	RELEASED	DATE	VER
			HYBRISUSER				00

EXECUTED	HYBRISUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR W22 P. BASE NEMA PREM. EFF.
FRAME 364/5HP IP55 TEFC

PREVIEW
WDD 00
SHEET /

Dimensions in inches

A3

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