DATA SHEET

Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 12495577

Frame	: 447T	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]	: 1152 kg
Protection degree	: IP56	Moment of inertia (J)	: 5.63 kgm²
Design	: B		

Output [HP]		150	125	125	125
Poles		6	6	6	6
Frequency [Hz]		60	50	50	50
Rated voltage [V]		460	380	400	415
Rated current [A]		174	173	166	164
L. R. Amperes [A]		1305	1228	1311	1394
LRC [A]		7.5x(Code H)	7.1x(Code H)	7.9x(Code J)	8.5x(Code K)
No load current [A]		66.0	66.0	70.0	73.0
Rated speed [RPM]		1190	990	990	990
Slip [%]		0.83	1.00	1.00	1.00
Rated torque [kgfm]		91.5	91.6	91.6	91.6
Locked rotor torque [%]		260	240	270	290
Breakdown torque [%]		260	260	290	310
Service factor		1.15	1.00	1.00	1.00
Temperature rise		80 K	80 K	80 K	80 K
Locked rotor time		75s (cold) 42s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)	36s (cold) 20s (hot)
Noise level[2]		73.0 dB(A)	73.0 dB(A)	73.0 dB(A)	73.0 dB(A)
Efficiency (%)	25%				
	50%	95.0	94.5	94.5	94.5
	75%	95.8	95.0	95.4	95.4
	100%	95.8	95.0	95.4	95.4
Power Factor	25%				
	50%	0.68	0.68	0.65	0.62
	75%	0.78	0.78	0.76	0.74
	100%	0.83	0.83	0.82	0.80

		Drive end	Non drive end
Bearing type	:	NU-319 C3	6316 C3
Sealing	:	Viton Oil Seal	Viton Seal
Lubrication interval	:	7683 h	12823 h
Lubricant amount	:	45 g	34 g
Lubricant type	:	Mobil Polyrex EM	

Foundation loads

Max. traction : 1876 kgf

Max. compression : 3094 kgf

Notes

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

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Customer :

Thermal protection

ID	Application	Type	Quantity	Sensing Temperature
1	Winding	Thermostat - 2 wires	1 x Phase	155 ºC

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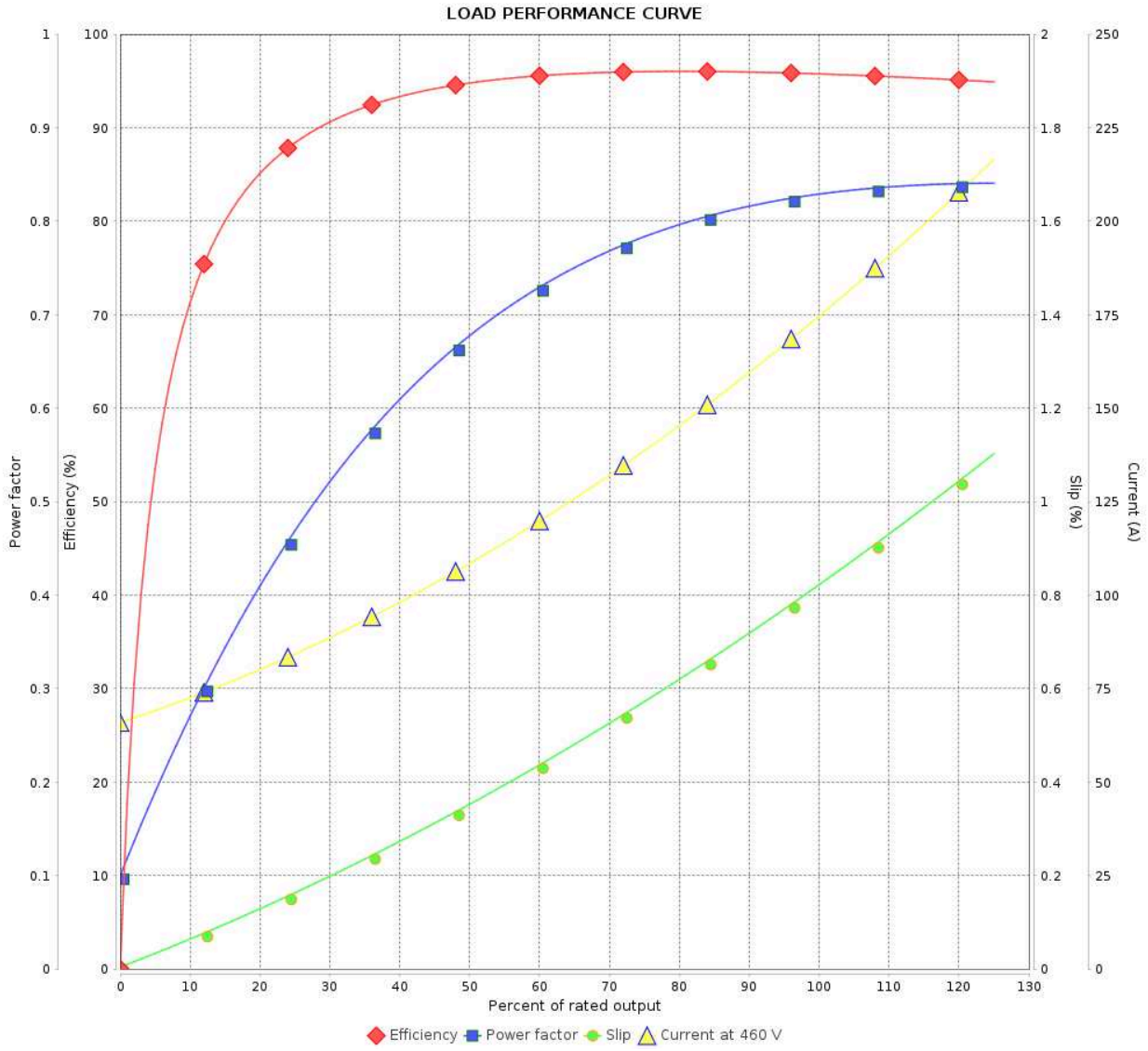
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Three Phase Induction Motor - Squirrel Cage

Customer :

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Product code : 12495577



Performance	: 460 V 60 Hz 6P

Rated current	: 174 A	Moment of inertia (J)	: 5.63 kgm²
LRC	: 7.5	Duty cycle	: Cont.(S1)
Rated torque	: 91.5 kgfm	Insulation class	: F
Locked rotor torque	: 260 %	Service factor	: 1.15
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 1190 rpm	Design	: B

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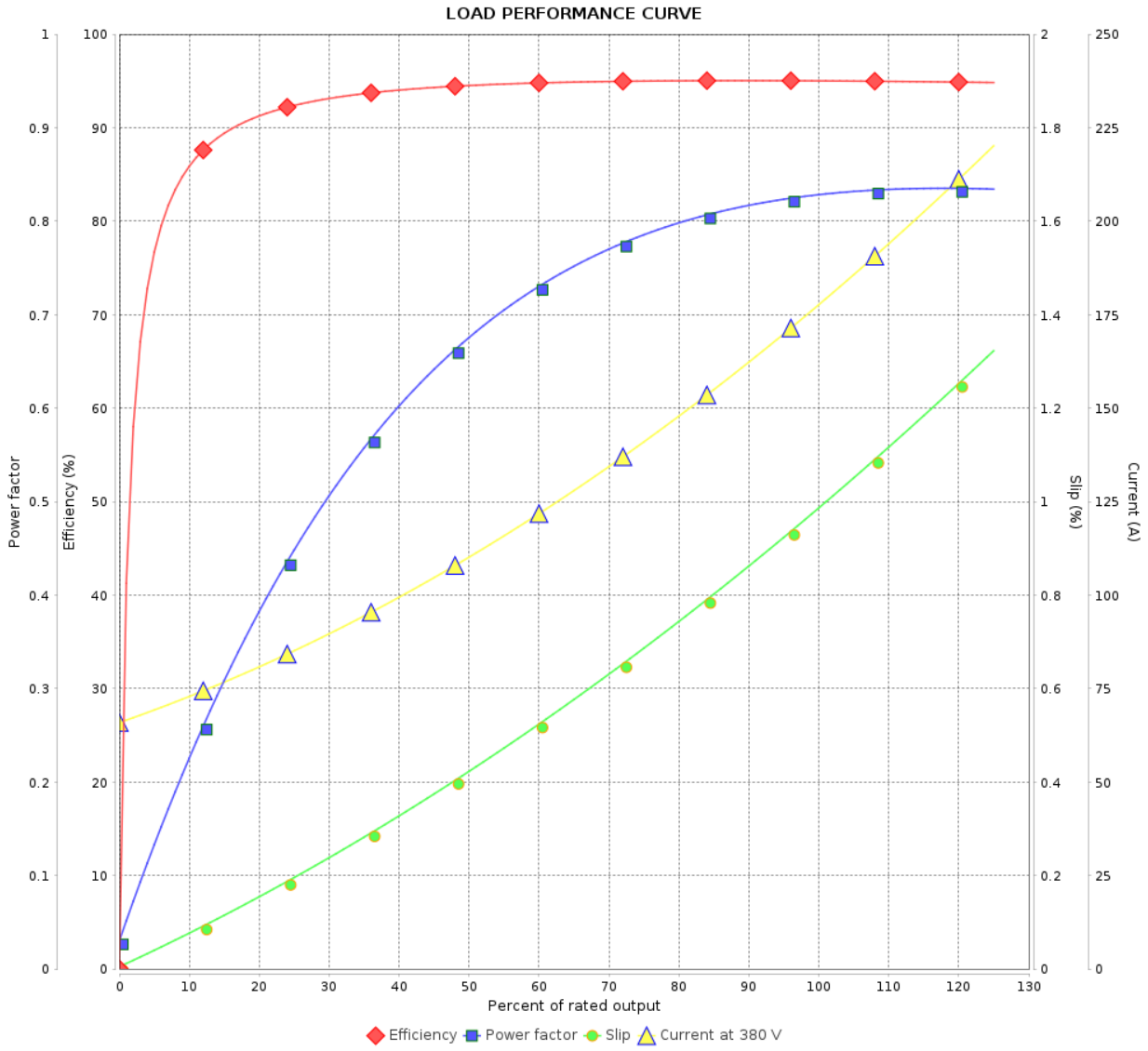
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 12495577



Performance	: 380 V 50 Hz 6P IE3		
Rated current	: 173 A	Moment of inertia (J)	: 5.63 kgm²
LRC	: 7.1	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 240 %	Service factor	: 1.00
Breakdown torque	: 260 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B

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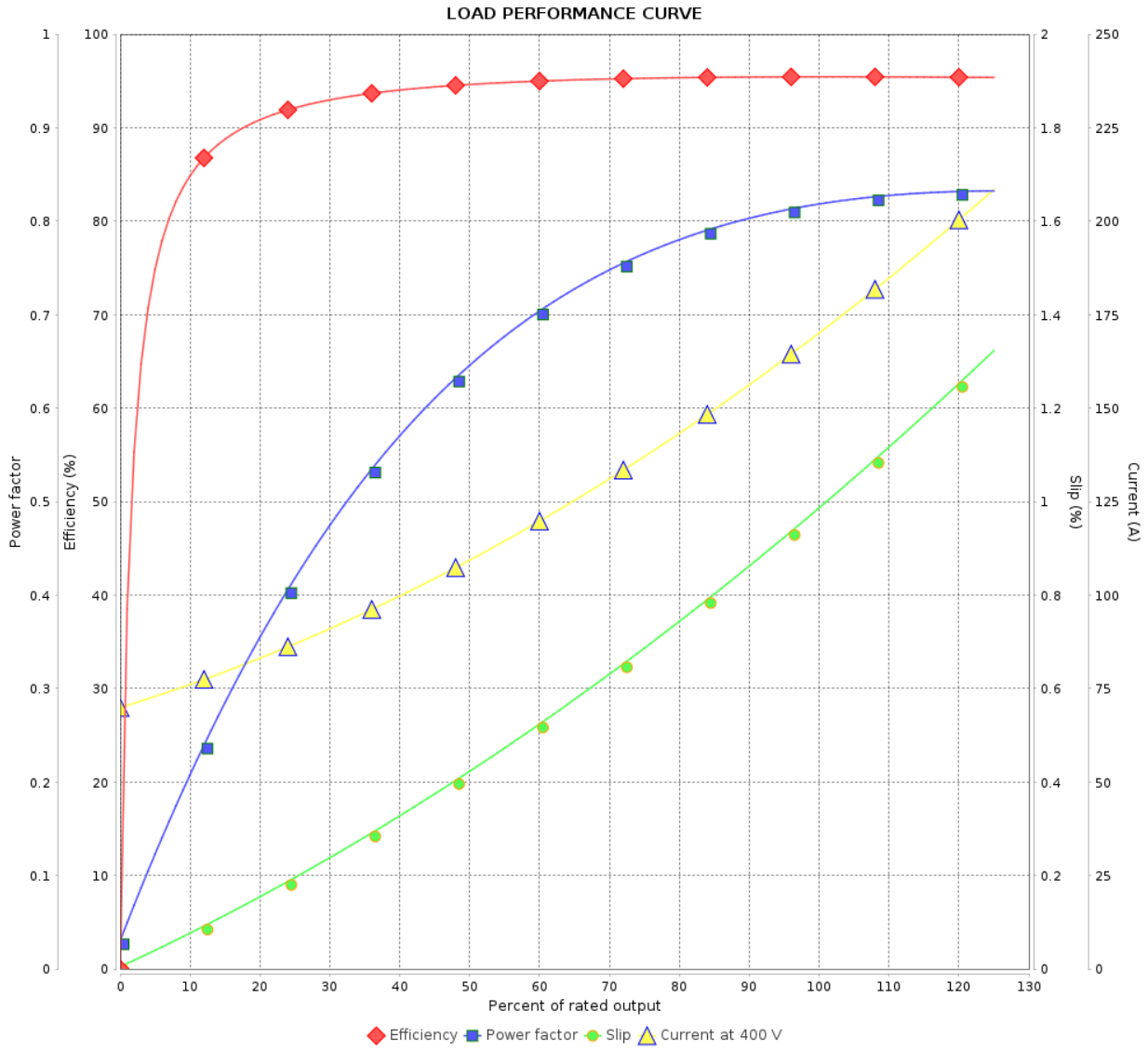
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Three Phase Induction Motor - Squirrel Cage

Customer :

Product line : W21 Explosion Proof NEMA Premium Efficiency Three-Phase

Product code : 12495577



Performance	: 400 V 50 Hz 6P IE3		
Rated current	: 166 A	Moment of inertia (J)	: 5.63 kgm²
LRC	: 7.9	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 270 %	Service factor	: 1.00
Breakdown torque	: 290 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B

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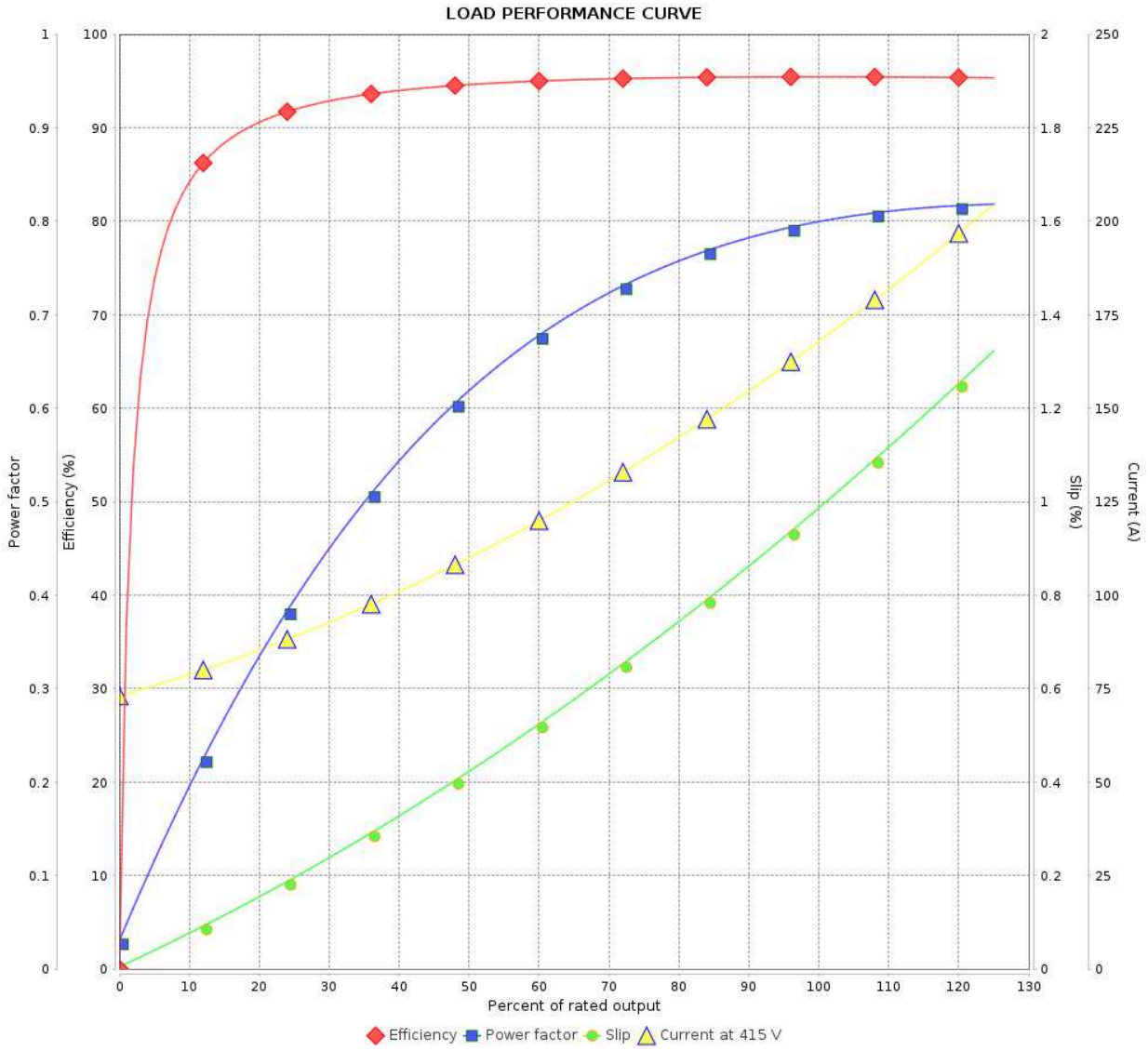
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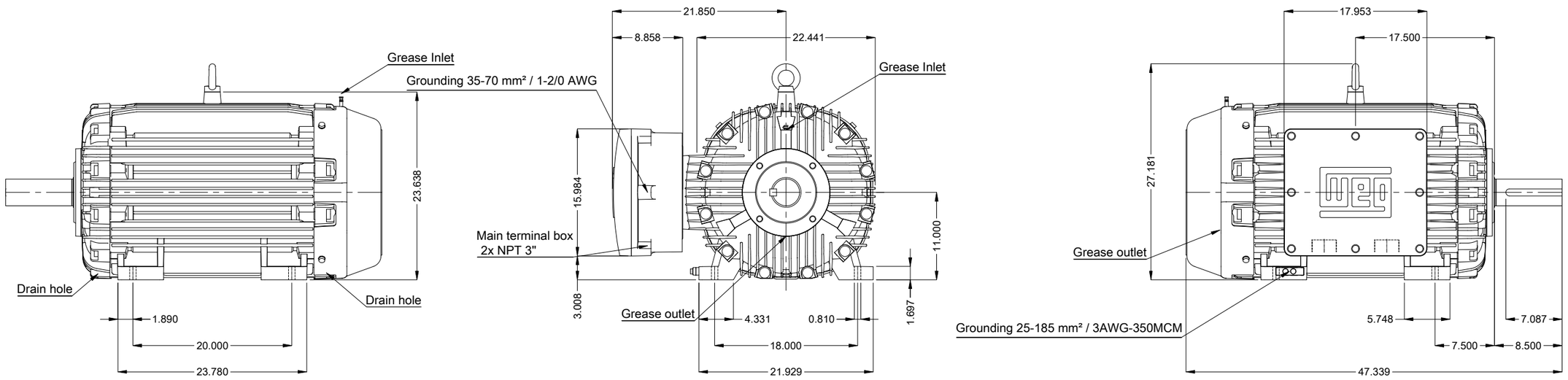


Performance	: 415 V 50 Hz 6P IE3		
Rated current	: 164 A	Moment of inertia (J)	: 5.63 kgm²
LRC	: 8.5	Duty cycle	: Cont.(S1)
Rated torque	: 91.6 kgfm	Insulation class	: F
Locked rotor torque	: 290 %	Service factor	: 1.00
Breakdown torque	: 310 %	Temperature rise	: 80 K
Rated speed	: 990 rpm	Design	: B

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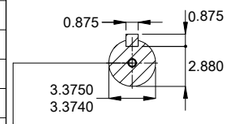
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Shaft locking device
NDE sealing - Viton lip seal ring
DE roller bearing
Color RAL 5009
Painting plan 222P
Mounting NEMA F-1
Mounting B3R(D)

DE Shaft End



DUNC 3/4"-10 WEG WPR-7339

150 HP 06 Poles 60 Hz | A

V.J. PAMENSKY CANADA INC.

Scale 1 : 14

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

EXECUTED	PIRWBUSER
CHECKED	
RELEASED	
REL. DATE	

THREE PH. MOTOR EXPLOSION PROOF NEMA PREM. EFF.
FRAME 447T IP56 TEFC

PREVIEW

WDD 00

SHEET 1 / 1

Dimensions in inches

A3

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