

DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : W40 JP Pump High Efficiency
Three-Phase

Product code : 14829288

Catalog # : 04036OP3VFP286JPV-W4

Frame : 284/6JP
Output : 40 HP (30 kW)
Poles : 2
Frequency : 60 Hz
Rated voltage : 200/400 V
Rated current : 109/54.3 A
L. R. Amperes : 662/331 A
LRC : 6.1x(Code G)
No load current : 32.2/16.1 A
Rated speed : 3535 rpm
Slip : 1.81 %
Rated torque : 59.4 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 250 %
Insulation class : F
Service factor : 1.15
Moment of inertia (J) : 1.91 sq.ft.lb
Design : B

Locked rotor time : 18s (cold) 10s (hot)
Temperature rise : 80 K
Duty cycle : Cont.(S1)
Ambient temperature : -20°C to +40°C
Altitude : 1000 m.a.s.l.
Protection degree : IP23
Cooling method : IC01 - ODP
Mounting : W-6
Rotation¹ : Both (CW and CCW)
Starting method : Direct On Line
Approx. weight³ : 350 lb

Output	25%	50%	75%	100%
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Efficiency (%)	90.8	91.0	91.7	91.7
Power Factor	0.54	0.78	0.86	0.87

Foundation loads

Max. traction

Max. compression

	Drive end	Non drive end
Bearing type	6311 Z C3	6211 Z C3
Sealing	Without Bearing Seal	Without Bearing Seal
Lubrication interval	11517 h	14226 h
Lubricant amount	18 g	11 g
Lubricant type	Mobil Polyrex EM	

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.

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		Revision		

TORQUE AND CURRENT VS SPEED CURVE

Three Phase Induction Motor - Squirrel Cage

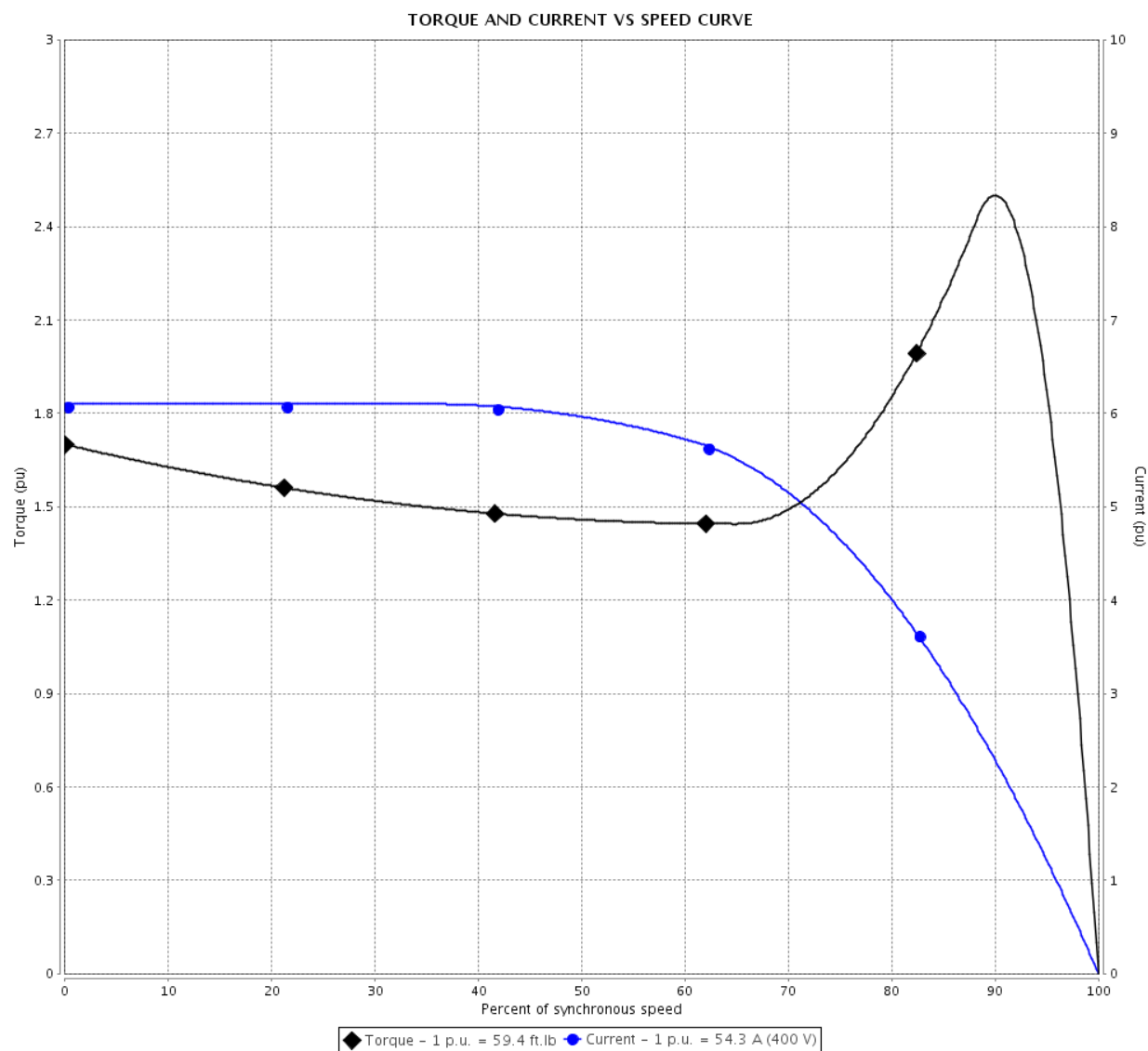


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Three-Phase

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Catalog # : 04036OP3VFP286JPV-W4



Performance : 200/400 V 60 Hz 2P

Rated current : 109/54.3 A
LRC : 6.1
Rated torque : 59.4 ft.lb
Locked rotor torque : 170 %
Breakdown torque : 250 %
Rated speed : 3535 rpm

Moment of inertia (J) : 1.91 sq.ft.lb
Duty cycle : Cont.(S1)
Insulation class : F
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Design : B

Locked rotor time : 18s (cold) 10s (hot)

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LOAD PERFORMANCE CURVE

Three Phase Induction Motor - Squirrel Cage

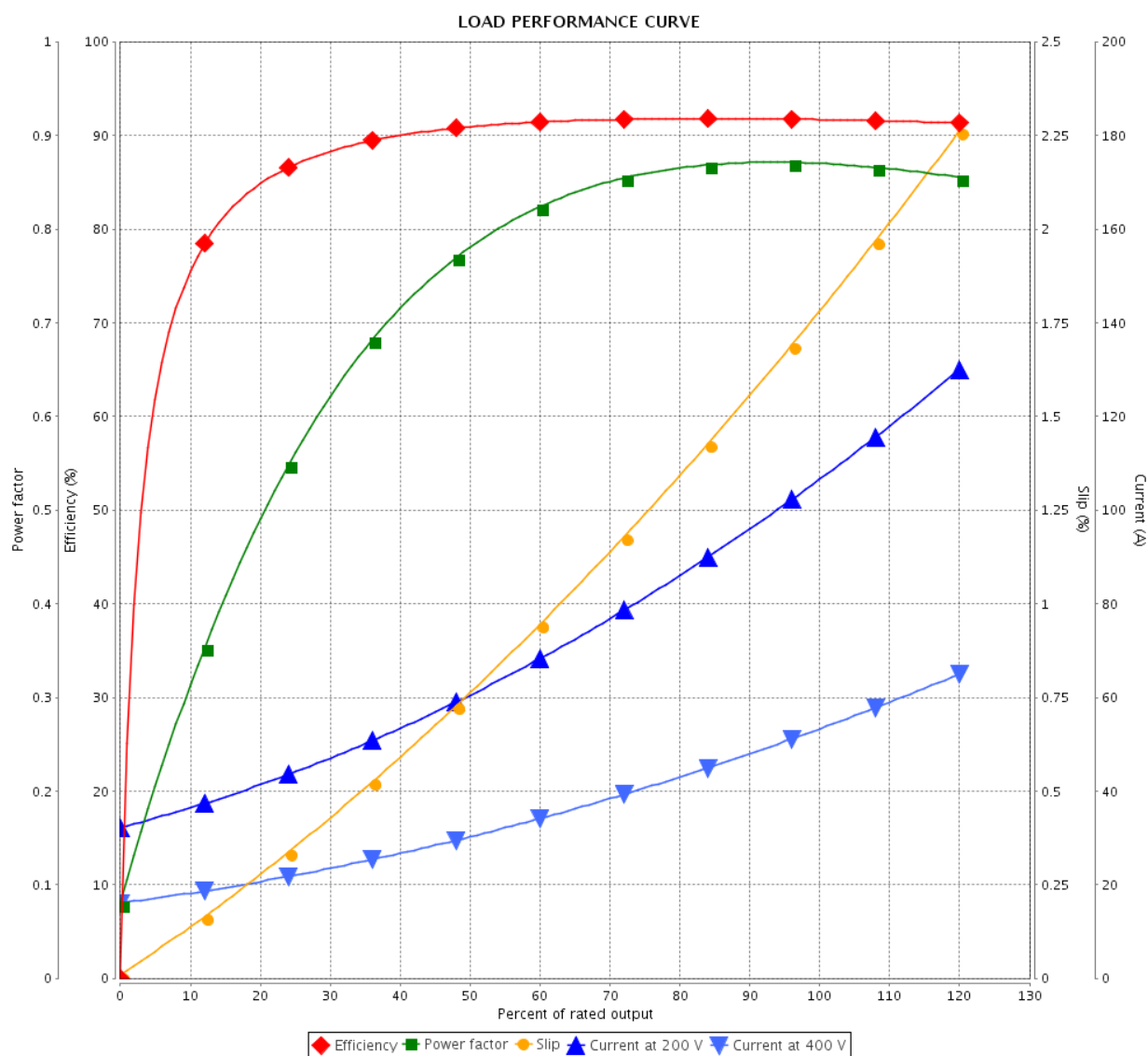


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THERMAL LIMIT CURVE

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Heating constant

Cooling constant

Rev.

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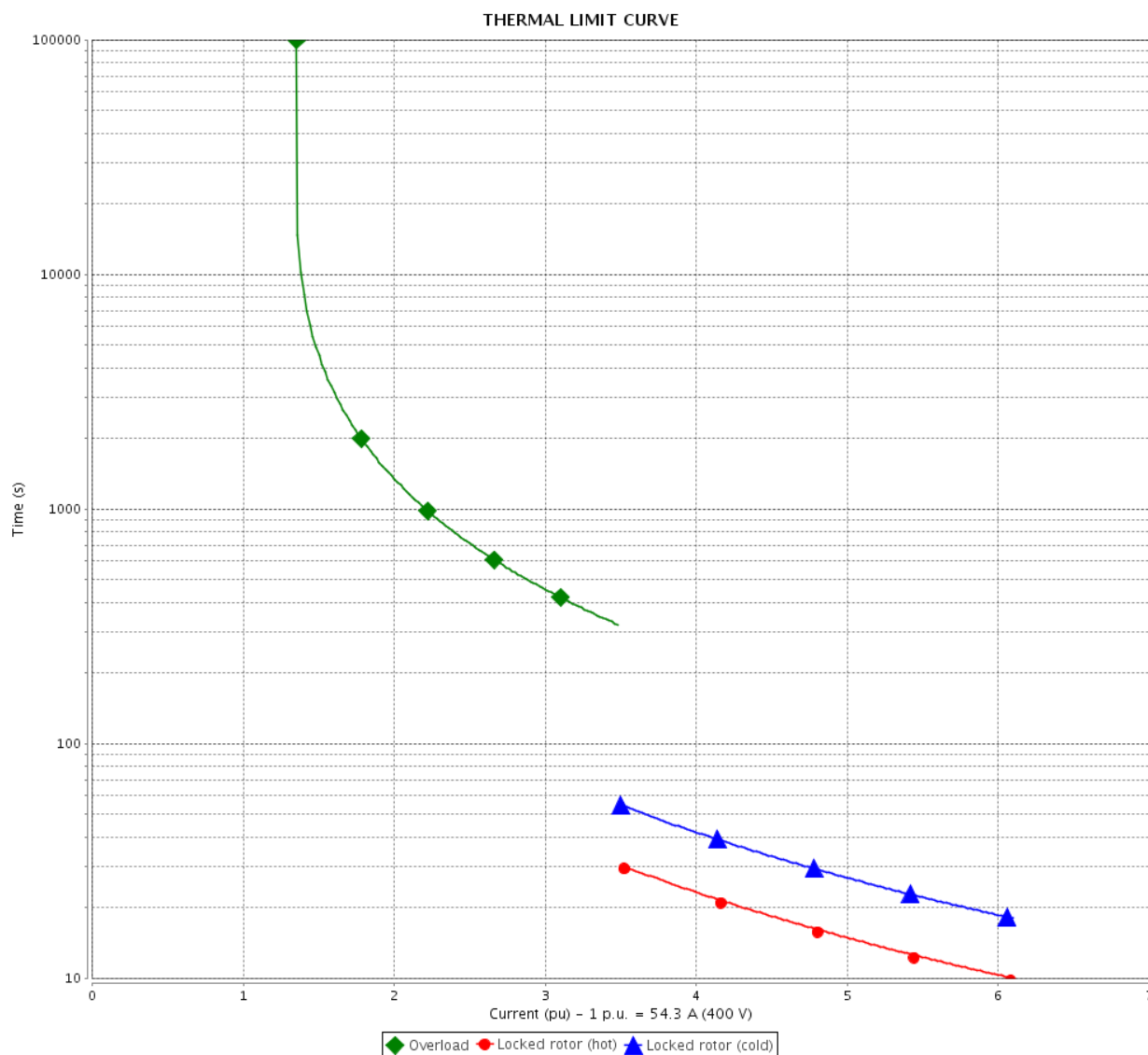
Revision

THERMAL LIMIT CURVE

Three Phase Induction Motor - Squirrel Cage



Customer : _____



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VFD OPERATION CURVE

Three Phase Induction Motor - Squirrel Cage

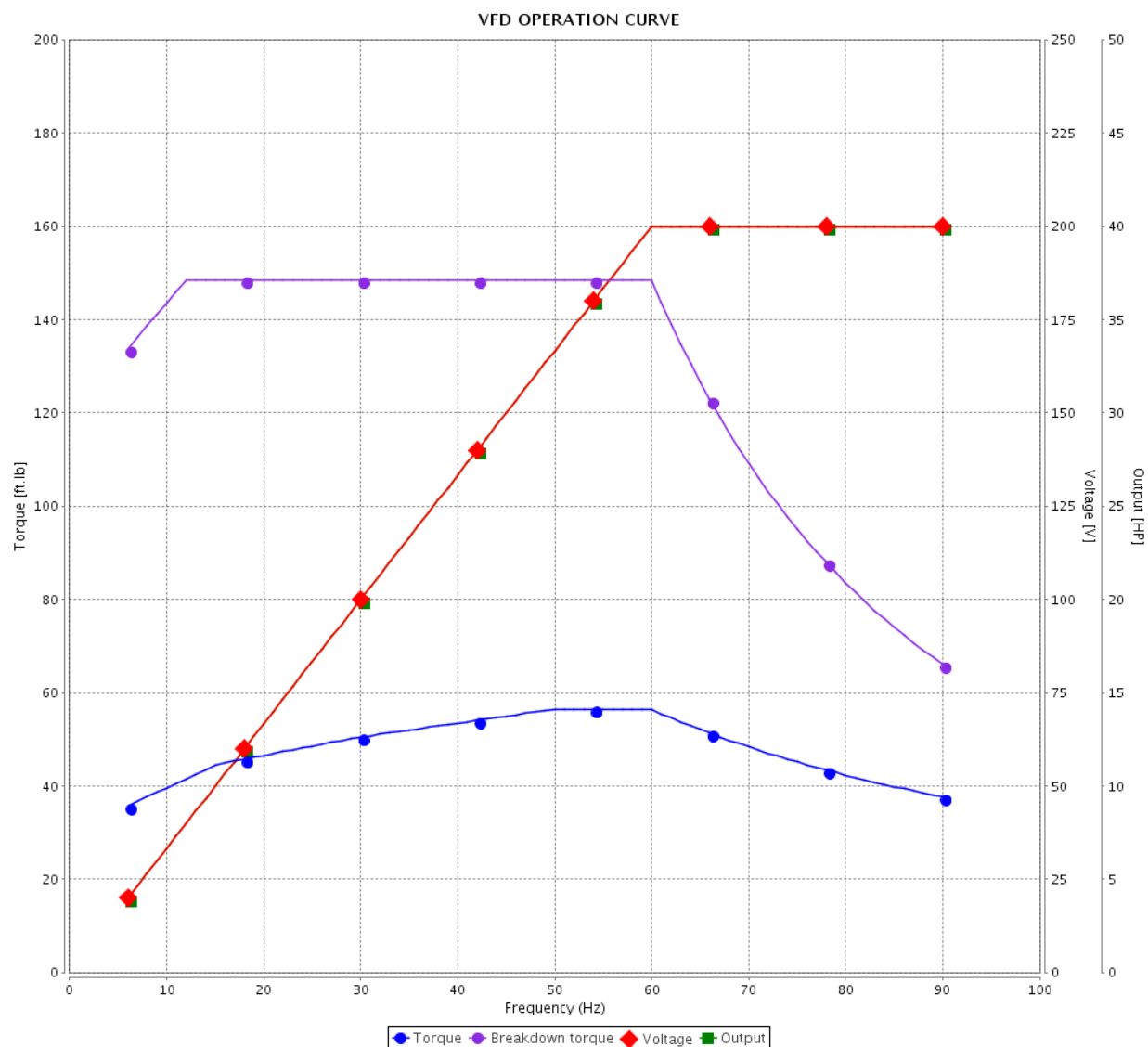


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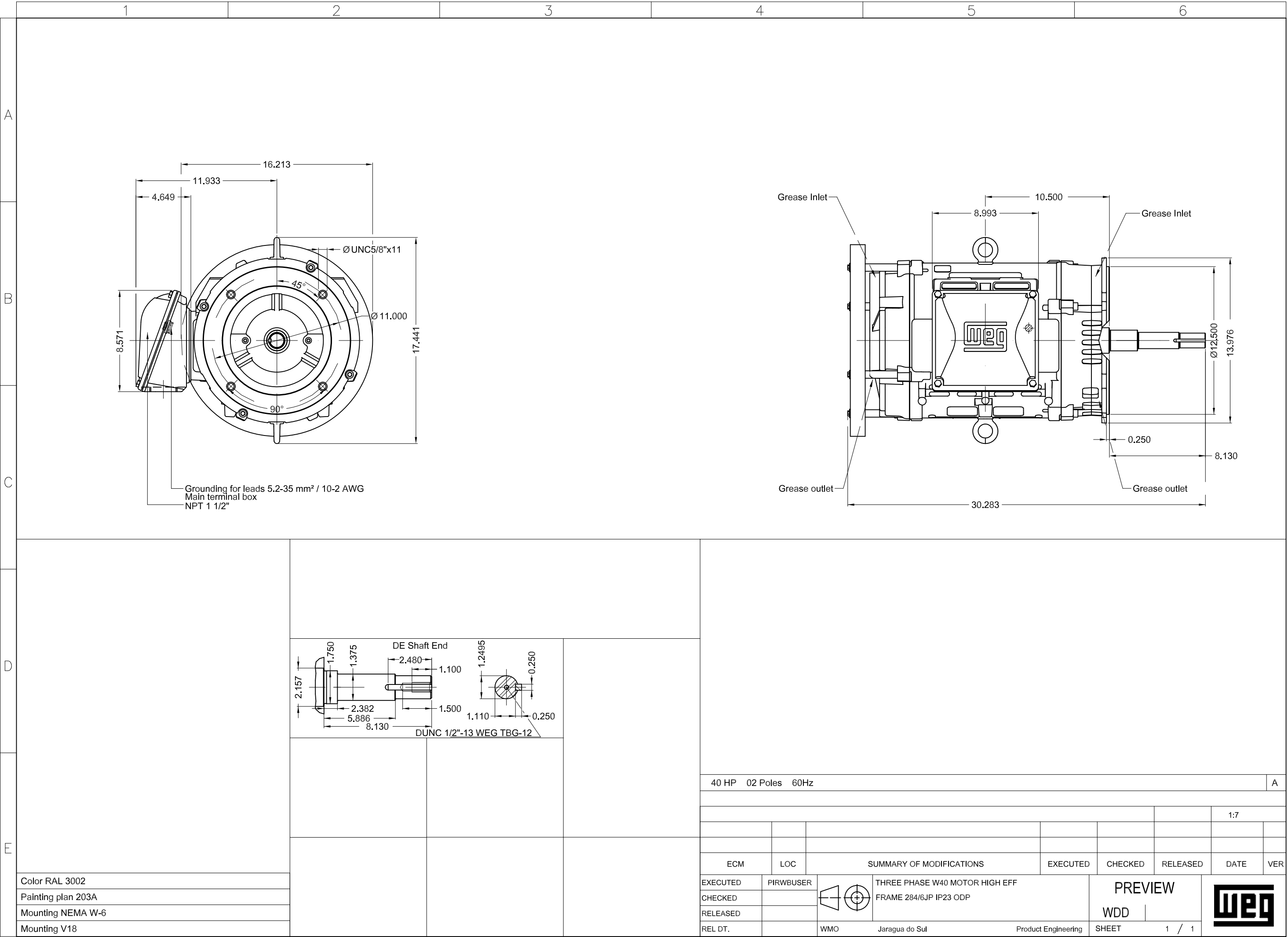


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MODEL 040360P3VFP286JPV-W4
MADE IN BRAZIL
14829288



CC029A

Inverter Duty Motor



MOD.T01#FOX0H



For use on PWM, VT 1000:1, CT 3:1, 1.0SF

PH 3	FR 284/6JP	HP(kW) 40.0(30.0)	Hz 60		
V 200/400	A 109/54.3	IP23			
NEMA NOM EFF	91.7 %	RPM 3535			
ENCL ODP	DUTY CONT.	INS. CL. F ΔT 80 K			
PF 0.87	DES B	CODE G	AMB. 40°C	→ 6311-Z-C3 → 6211-Z-C3	MOBIL POLYREX EM 18 g 11517 h
SF 1.15	SFA 125/62.4	ALT 1000 m.a.s.l.		351 Lbs	