

ABB BALDOR RELIANCE III

Customer information packet

CXM050342

0.33//0.25HP, 1780//1480RPM, 3PH, 60//50HZ

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.250 HP @ 50 HZ .330 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	6
Current @ Voltage	1.700 A @ 230.0 V 1.500 A @ 190.0 V .850 A @ 460.0 V .750 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYE2098
Eff. date	03-08-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	S
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.30 IN
Power Factor	49
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0887XPSL											
NO.						CC					
S/N						TEMP CODE	T3C				
SPEC.	35-0000-1380					INV.TYPE	PWM				
CAT.NO.	CXM050342					C HP FR	60	C HP TO	90		
HP	.33//0.25					CT HZ FROM	6	CT HZ TO	60		
VOLTS	230/460//190/380					VT HZ FROM	6	VT HZ TO	60		
AMPS	1.7/0.85//1.5/0.75				MAG CUR	1.6/0.8					
RPM	1780//1480				MX RPM	2700					
HZ	60//50	PH	3	CL	F	NOM.EFF.	80				
SER.F.	1.15	DES	B	SL HZ	0.7	WK2	0.087				
FRAME	56C	RATING		40C AMB-CONT							
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE				SFA 1.8/0.9						

AC Induction Motor Performance Data

Record # 90037

Typical performance - not guaranteed values

Winding: 35WGG155-R048			Type: 3512M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	.33//.25		Full Load Torque	0.977 LB-FT	
Volts	230/460//190/380		Start Configuration	direct on line	
Full Load Amps	1.7/.85//1.5/.75		Breakdown Torque	6.28 LB-FT	
R.P.M.	1780//1480		Pull-up Torque	3.26 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque	4.04 LB-FT
NEMA Design Code	B	KVA Code	S	Starting Current	6.71 A
Service Factor (S.F.)	1.15		No-load Current	0.792 A	
NEMA Nom. Eff.	75.5	Power Factor	49	Line-line Res. @ 25°C	43.2 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	17°C	
S.F. Amps	1.8/.9//1.56/.78		Temp. Rise @ S.F. Load	19°C	
			Locked-rotor Power Factor	70.7767	
			Rotor inertia	0.0866 lb-ft²	

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	22	31	41	49	57	63	54
Efficiency	47.4	63.1	70.8	75.1	77.6	79.1	76.6
Speed	1794	1789	1785	1780	1774	1769	1776
Line amperes	0.786	0.791	0.814	0.839	0.878	0.933	0.862

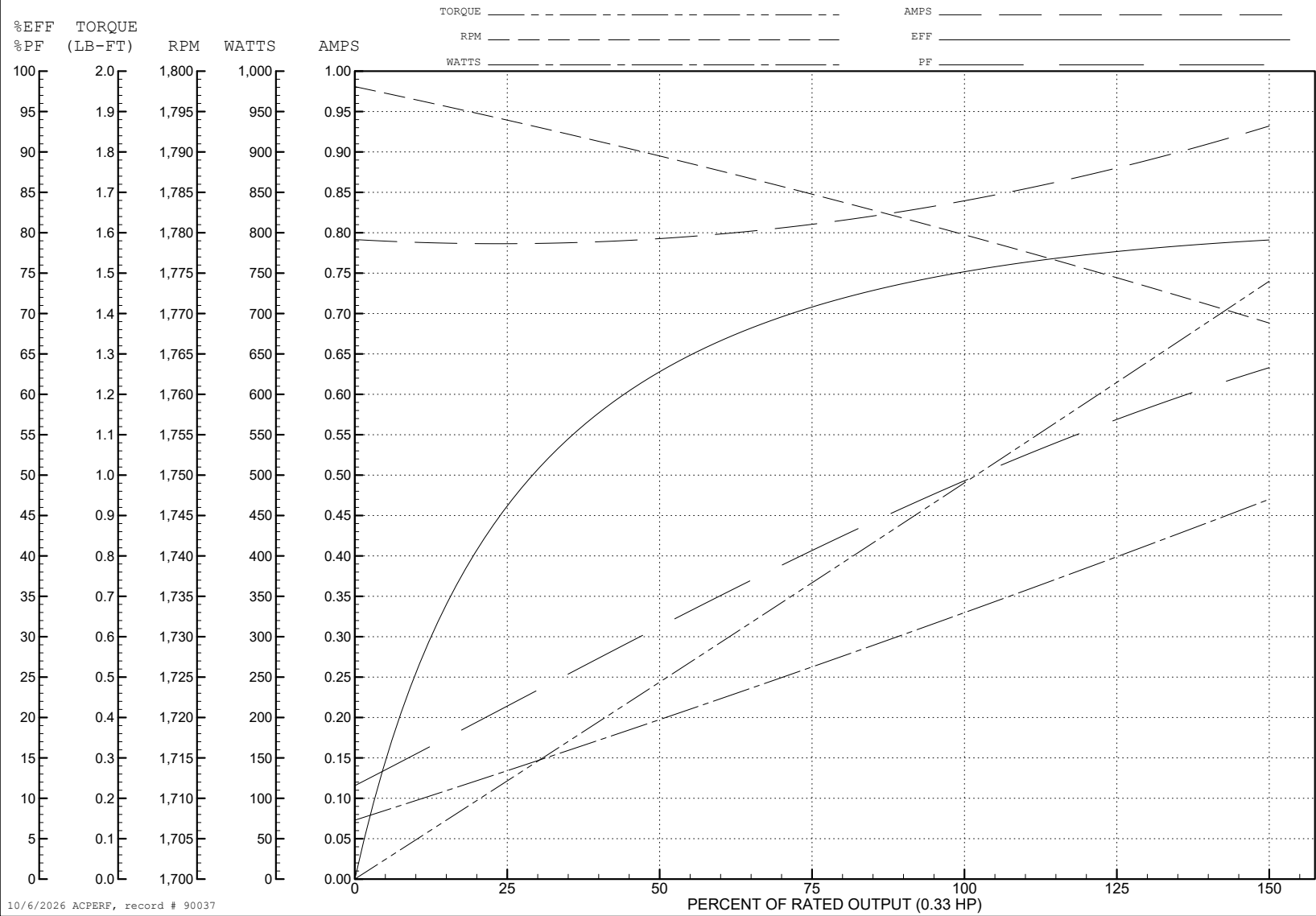
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WINDING # 35WGG155

0.33 HP 3 PH 60 HZ 1780 RPM 460 V 3512M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71



AC Induction Motor Performance Data

Record # 90038

Typical performance - not guaranteed values

Winding: 35WGG155-R048			Type: 3512M		Enclosure: TEFC		
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		.33//.25		Full Load Torque		0.892 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		1.7/.85//1.5/.75		Breakdown Torque		5.5 LB-FT	
R.P.M.		1780//1480		Pull-up Torque		2.98 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		3.69 LB-FT	
NEMA Design Code		B	KVA Code	S	Starting Current		6.08 A
Service Factor (S.F.)		1.15		No-load Current		0.775 A	
NEMA Nom. Eff.		75.5	Power Factor	49	Line-line Res. @ 25°C		43.2 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		17°C	
S.F. Amps		1.8/.9//1.56/.78		Temp. Rise @ S.F. Load		18°C	
				Locked-rotor Power Factor		76.0359	
				Rotor inertia		0.0866 lb-ft²	

Load Characteristics 380 V, 50 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	23	32	40	49	56	63	53
Efficiency	42.4	58.8	67.4	72.1	75	76.1	73.8
Speed	1494	1490	1486	1481	1476	1471	1478
Line amperes	0.767	0.77	0.789	0.81	0.842	0.891	0.829

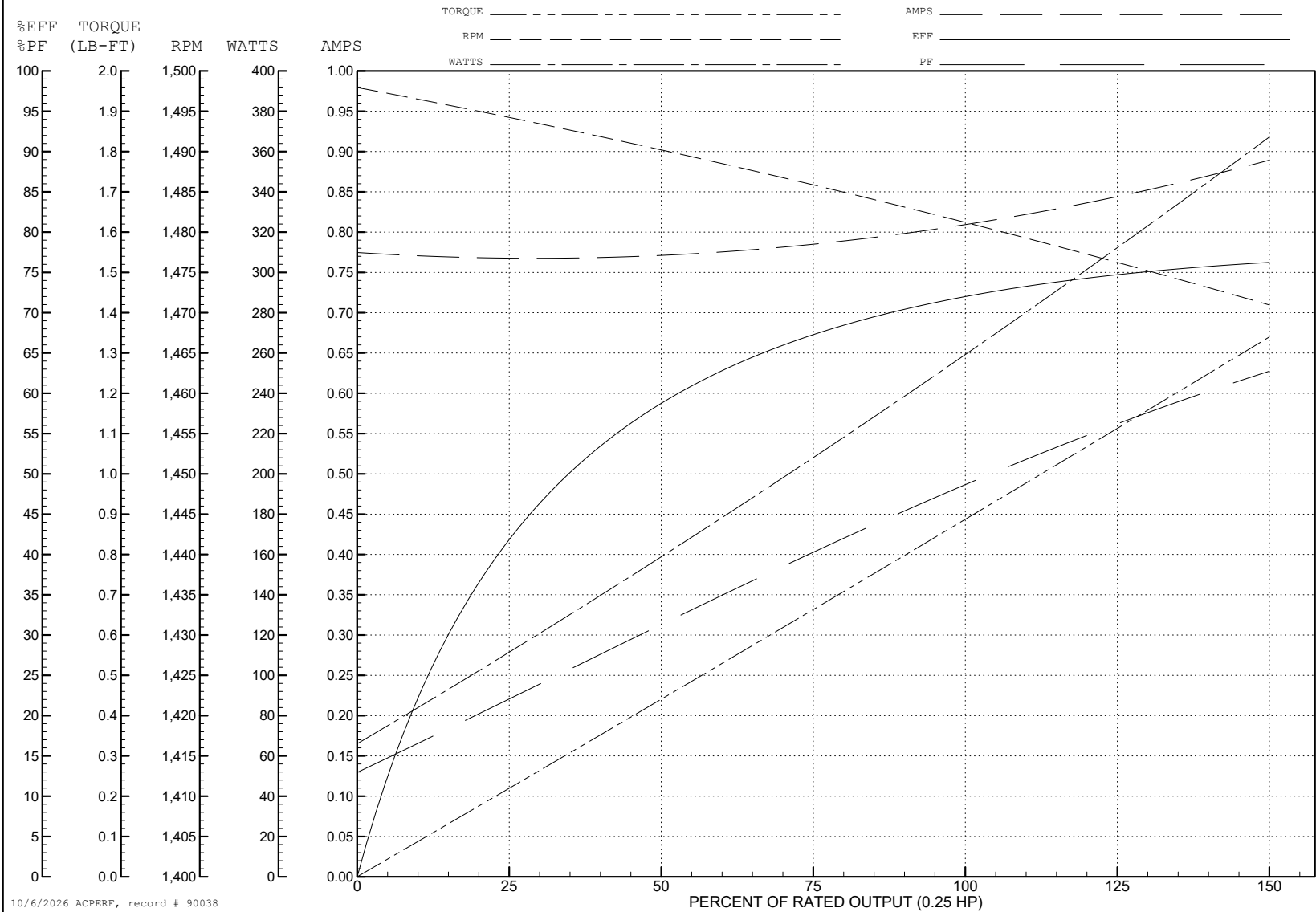
ABB Motors and Mechanical Inc.

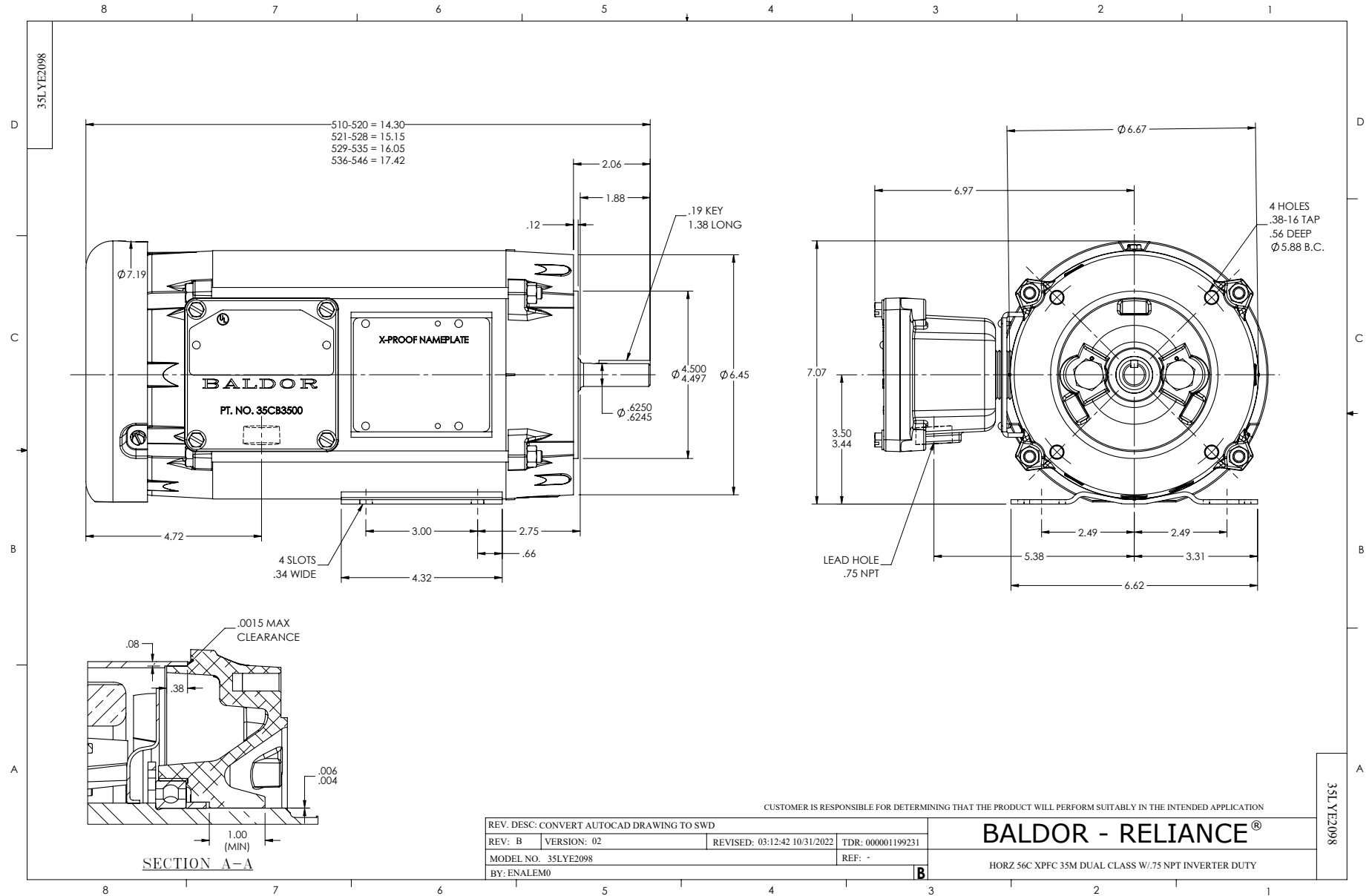
WINDING # 35WGG155

0.25 HP 3 PH 50 HZ 1481 RPM 380 V 3512M

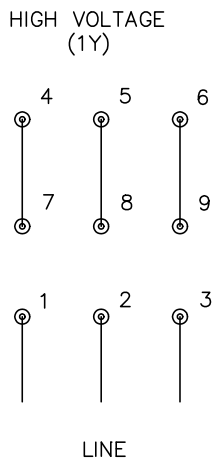
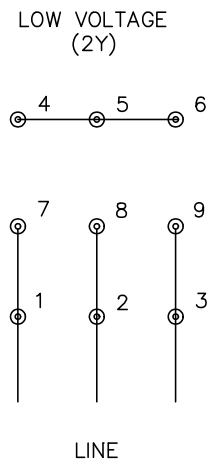
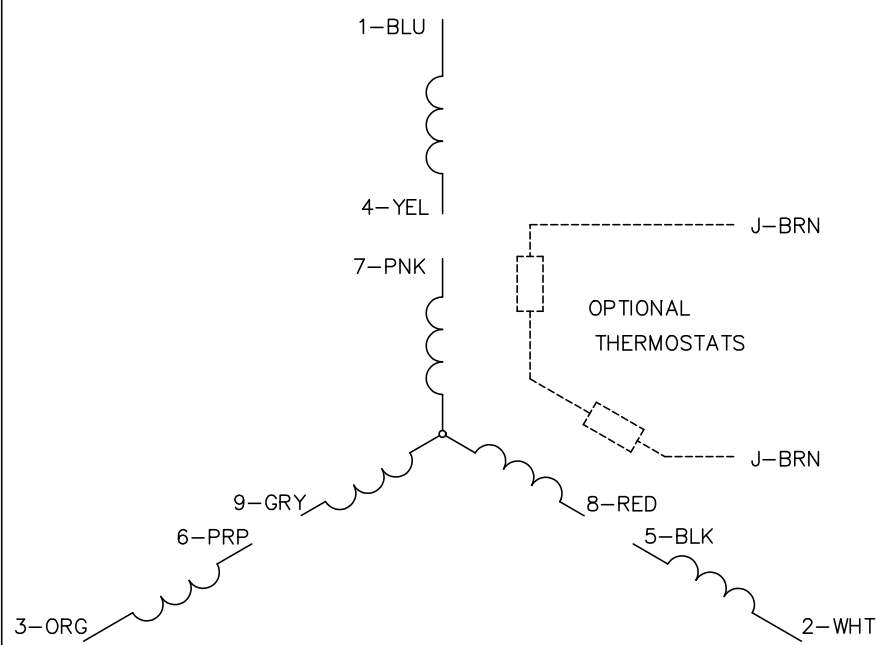
Typical performance - not guaranteed values.

TORQUES (LB-FT) : PO=5.5 PU=2.98 LR=3.69 LRA=6.08





CD0005



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
 - 3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005