

ABB BALDOR RELIANCE III

Customer information packet

VXM18542T

5//3HP, 1750//1450RPM, 3PH, 60//50HZ, 184TC

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	184TC
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	3.000 HP @ 50 HZ 5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	CSA EEV UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	30
Current @ Voltage	7.100 A @ 460.0 V 5.600 A @ 380.0 V 14.200 A @ 230.0 V 11.200 A @ 190.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part Detail

Revision	B
Type	AC
Mech. spec.	36Q330
Base	
Status	PRD/A
Elec. spec.	36WGR866
Layout	36LYQ330
Eff. date	09-08-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	06-02-2026

Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.86 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1450 rpm 1750 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

NP0887XPSLEV											
NO.						CC	010A				
S/N						TEMP CODE	T3C				
SPEC.	36Q330R866G1					INV.TYPE	PWM				
CAT.NO.	VXM18542T					C HP FR	60	C HP TO	90		
HP	5//3					CT HZ FROM	30		CT HZ TO	60	
VOLTS	230/460//190/380					VT HZ FROM	6		VT HZ TO	60	
AMPS	14.2/7.1//11.2/5.6				MAG CUR	3.4/1.7					
RPM	1750//1450				MX RPM	2700					
HZ	60//50	PH	3	CL	F	NOM.EFF.	89.5				
SER.F.	1.00	DES	A	SL HZ	1.4	WK2	0.428				
FRAME	184TC	RATING	40C AMB-CONT								
	NEMA MG-1 PART 5, IP54										
	1.15 SF ON SINE WAVE										

AC Induction Motor Performance Data

Record # 106194

Typical performance - not guaranteed values

Winding: 36WGR866-R028			Type: 3646M		Enclosure: XPFC			
Nameplate Data					460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5//3		Full Load Torque		14.92 LB-FT		
Volts		230/460//190/380		Start Configuration		direct on line		
Full Load Amps		14.2/7.1//11.2/5.6		Breakdown Torque		68.7 LB-FT		
R.P.M.		1750//1450		Pull-up Torque		35.1 LB-FT		
Hz		60//50	Phase	3	Locked-rotor Torque		42.8 LB-FT	
NEMA Design Code		A		KVA Code	K	Starting Current		59.1 A
Service Factor (S.F.)		1		No-load Current		3.71 A		
NEMA Nom. Eff.		89.5	Power Factor	74	Line-line Res. @ 25°C		1.91 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		58°C		
				Locked-rotor Power Factor		39.7		
				Rotor inertia		0.428 lb-ft²		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	36	57	69	76	81	83
Efficiency	80.6	87.7	89.6	89.8	89.5	88.7
Speed	1789	1780	1770	1760	1749	1737
Line amperes	4.01	4.72	5.7	6.83	8.1	9.53

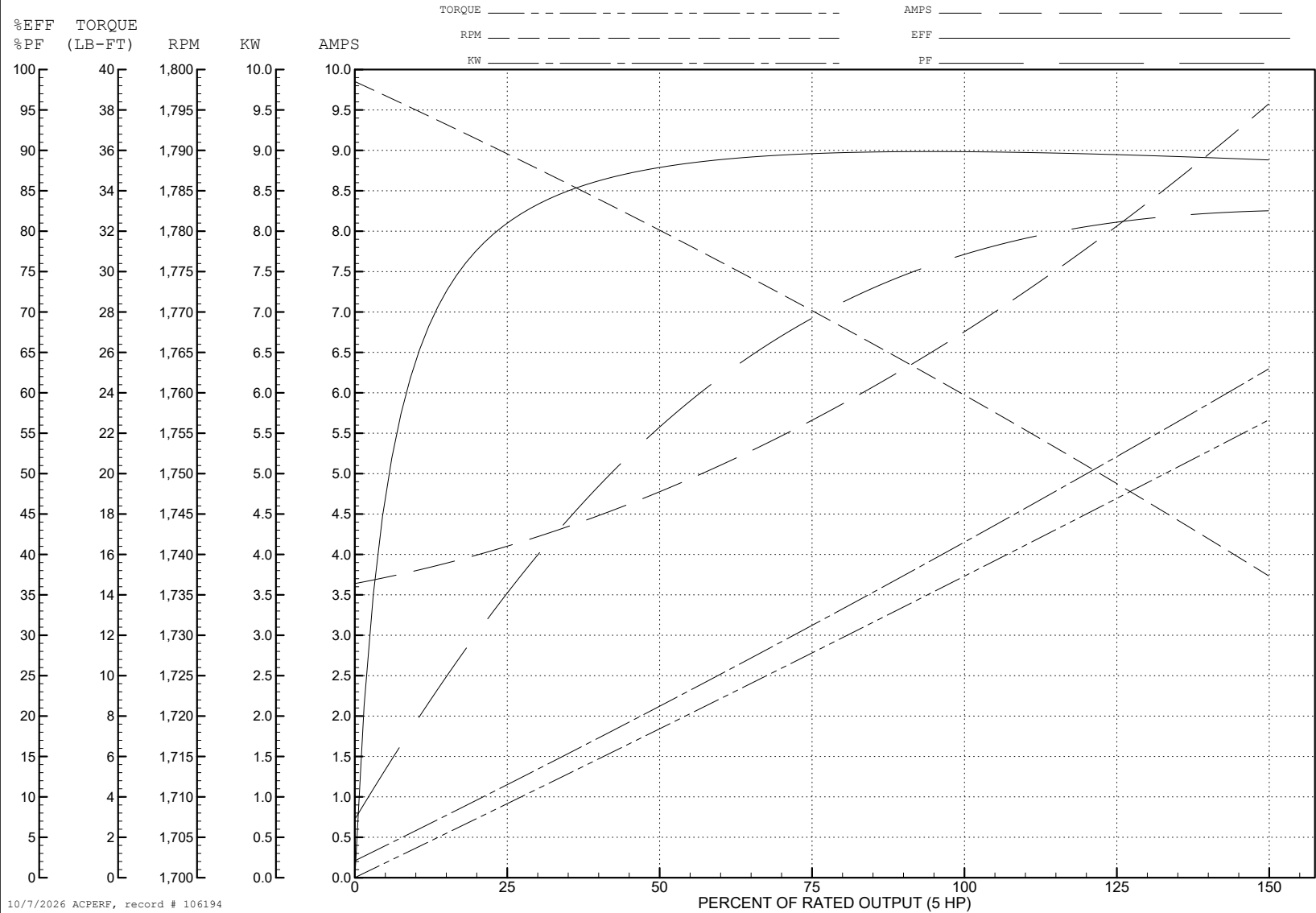
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WINDING # 36WGR866

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1760 RPM 460 V 3646M

TORQUES (LB-FT): PO=68.7 PU=35.1 LR=42.8 LRA=59.1



AC Induction Motor Performance Data

Record # 116724

Typical performance - not guaranteed values

Winding: 36WGR866-R028				Type: 3646M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		5//3		Full Load Torque		10.7 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		14.2/7.1//11.2/5.6		Breakdown Torque		65.1 LB-FT	
R.P.M.		1750//1450		Pull-up Torque		35.75 LB-FT	
Hz		60//50		Phase		3	
NEMA Design Code		A		KVA Code		K	
Service Factor (S.F.)		1		No-load Current		3.63 A	
NEMA Nom. Eff.		89.5		Power Factor		74	
Rating - Duty		40C		AMB-CONT			
				Temp. Rise @ Rated Load		42°C	
				Locked-rotor Power Factor		44	
				Rotor inertia		0.428 lb-ft²	

Load Characteristics 380 V, 50 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	29	47	60	68	75	78
Efficiency	75.9	84.9	87.8	88.7	88.8	88.4
Speed	1492	1485	1477	1470	1461	1453
Line amperes	3.82	4.27	4.89	5.6	6.42	7.34

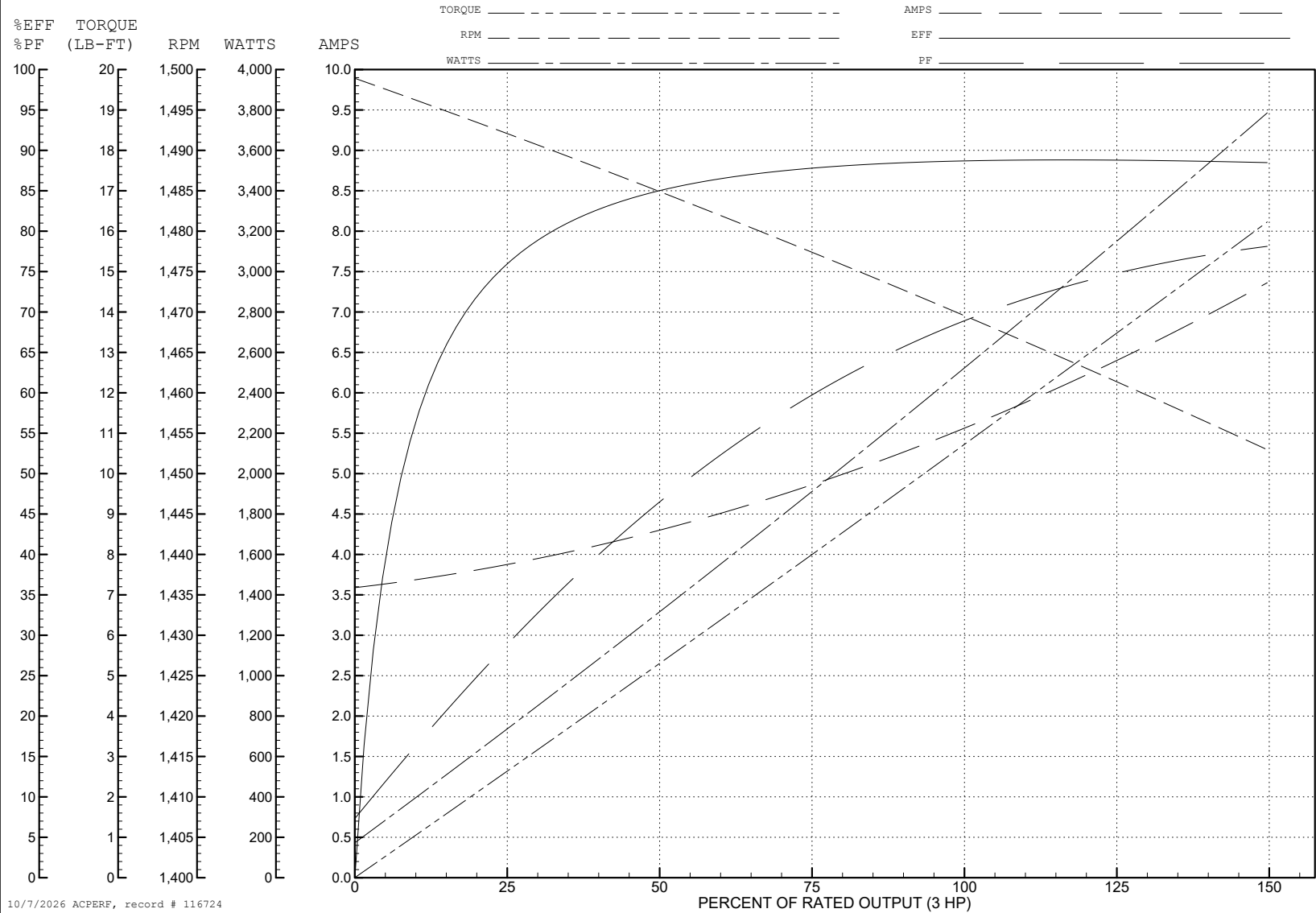
ABB Motors and Mechanical Inc.

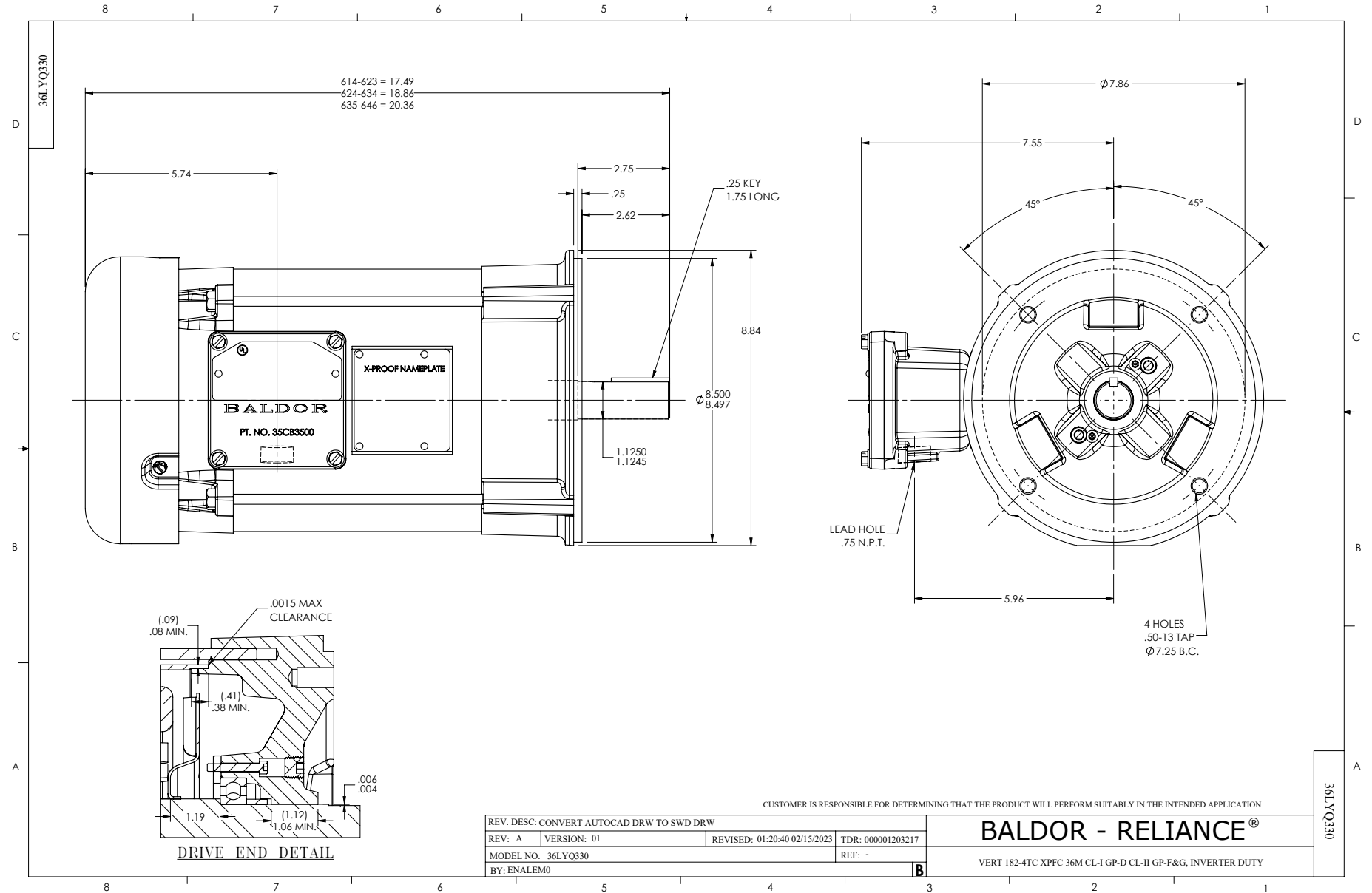
WINDING # 36WGR866

Typical performance - not guaranteed values.

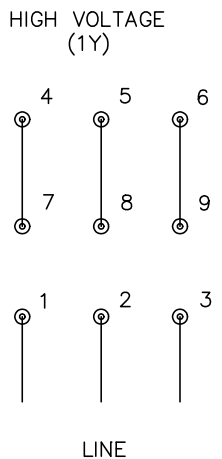
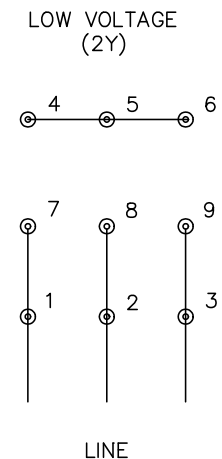
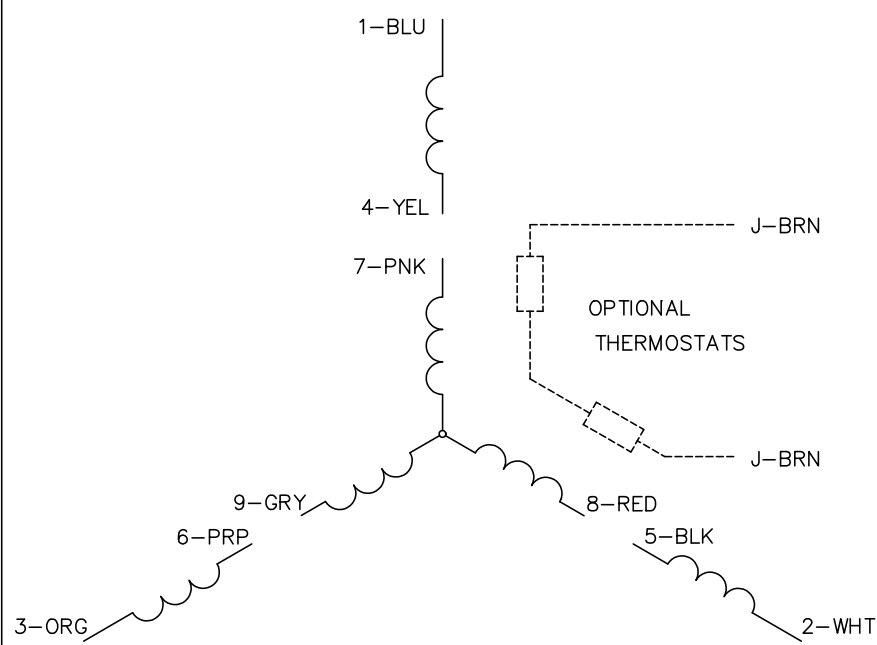
3 HP 3 PH 50 HZ 1470 RPM 380 V 3646M

TORQUES (LB-FT) : PO=65.1 PU=35.75 LR=43.59 LRA=57.03





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