



Customer information packet

XM18542T

5HP, RPM, 3PH, 60HZ, 184T, XPFC, F1

Class - CLI GP D; CLII GP F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	184T
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	5.000 HP @ 60 HZ 3.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 190.0 V @ 50 HZ 230.0 V @ 60 HZ 380.0 V @ 50 HZ
Agency Approvals	UL CSA EEV
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Constant Torque Speed Range	30
Current @ Voltage	11.200 A @ 190.0 V 13.600 A @ 230.0 V 5.600 A @ 380.0 V 6.800 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT

Part detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGR866
Layout	36LYR726
Eff. date	06-01-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	09-29-2020

Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.74 IN
Power Factor	74
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	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.	36-0000-0424					INV.TYPE		PWM				
CAT.NO.	XM18542T					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	13.6/6.8//11.2/5.6				MAG CUR	7.4/3.7						
RPM	1750//1460				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	184T	RATING		40C AMB-CONT								
	55C AMB AT 1.00 SF SINEWAVE											
	NEMA MG-1 PART 5, IP54				1.15 SF SINEWAVE							

Parts list

Part number	Description	Quantity
SA386179	SA 36-0000-0424	1.000 ea
RA376453	RA 36-0000-0424	1.000 ea
LC0145B01	CONNECTION LABEL	1.000 ea
NP0887XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500bx)4/22	1.000 ea
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 ea
36FH4009A70	IEC FH W/(2)GREASER HOLES, W/ PRIMER	1.000 ea
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	2.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3105A24	THRUBOLT- 3/8-16, CUT TO 12.810" LONG	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
36EP3700A01	FR ENDPLATE, MACH	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
36EP3701A01	PU ENDPLATE, MACH	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
35CB3001A02SP	EXPL PROOF CONDUIT BOX, 3/4"PIPE TAP LEA	1.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 ea
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	4.000 ea
MG1500Y02	WILKOPON PRIMER YELLOW	0.022 ga
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.022 ga
GOPA1000	PKG GRP, PRINT PK1026A06	1.000 ea

HW2501E19	STD SQUARE KEY .25 SQUARE X 2.125 LONG	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data

Record # 78059

Typical performance - not guaranteed values

Winding: 36WGR866-R001		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	13.6/6.8//11.2/5.6	Breakdown Torque	68.7 LB-FT		
R.P.M.	1750//1460	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	L	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

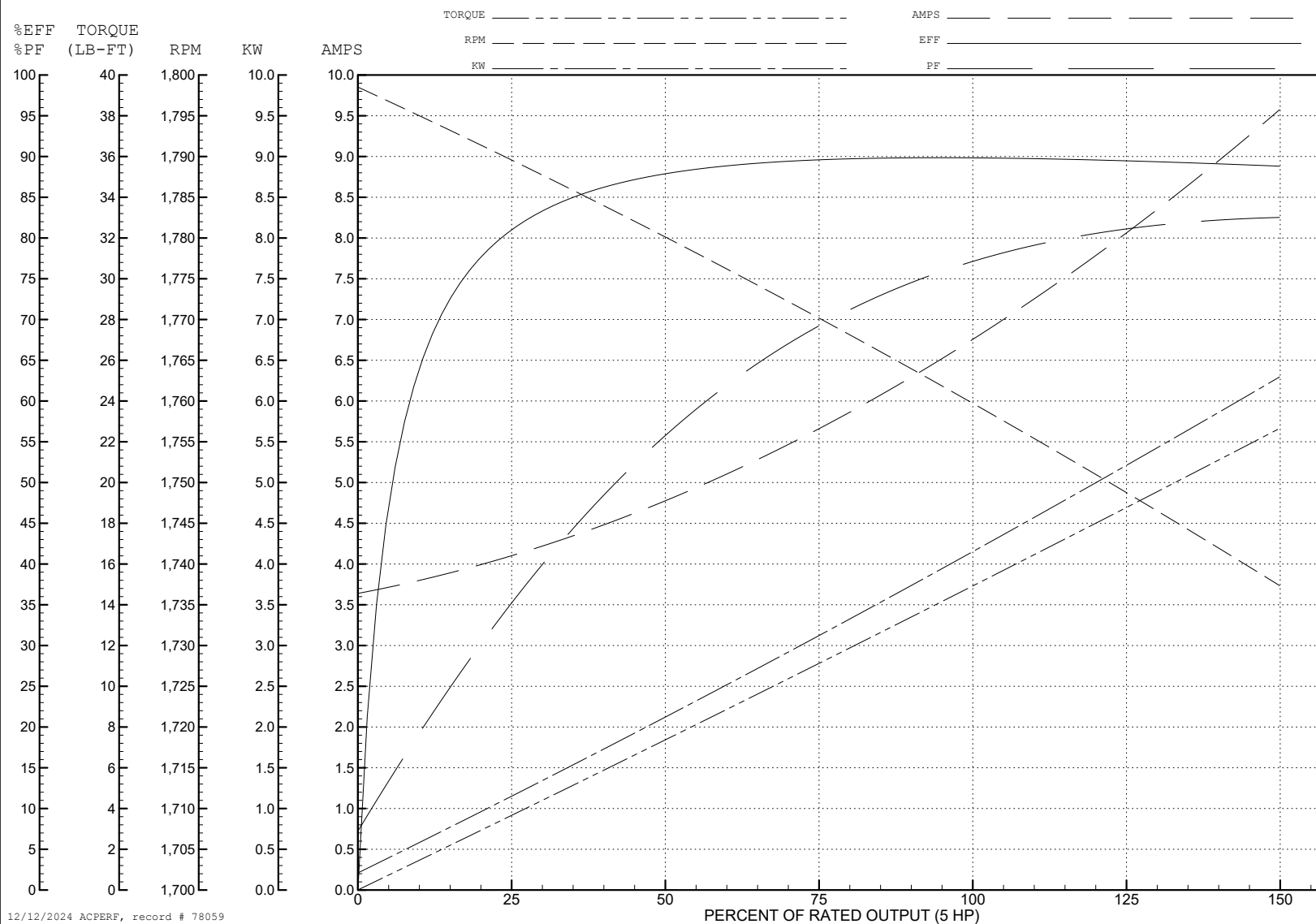
ABB Motors and Mechanical Inc.

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 # 78060

Typical performance - not guaranteed values

Winding: 36WGR866-R001		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	13.6/6.8//11.2/5.6	Breakdown Torque	65.1 LB-FT		
R.P.M.	1750//1460	Pull-up Torque	35.75 LB-FT		
Hz	60//50	Phase	3	Locked-rotor Torque	43.59 LB-FT
NEMA Design Code	A	KVA Code	L	Starting Current	57.03 A
Service Factor (S.F.)			1	No-load Current	3.63 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	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

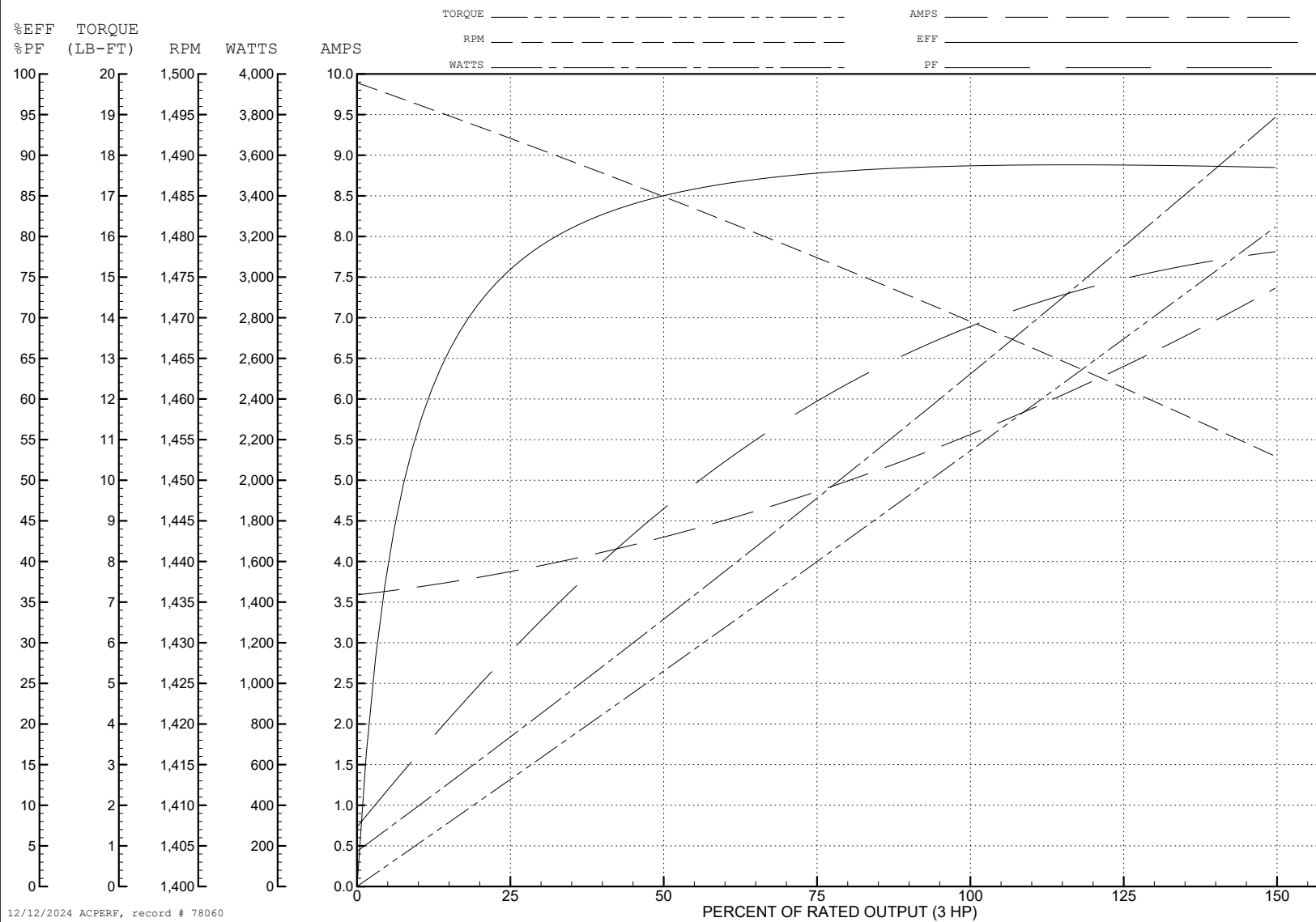
ABB Motors and Mechanical Inc.

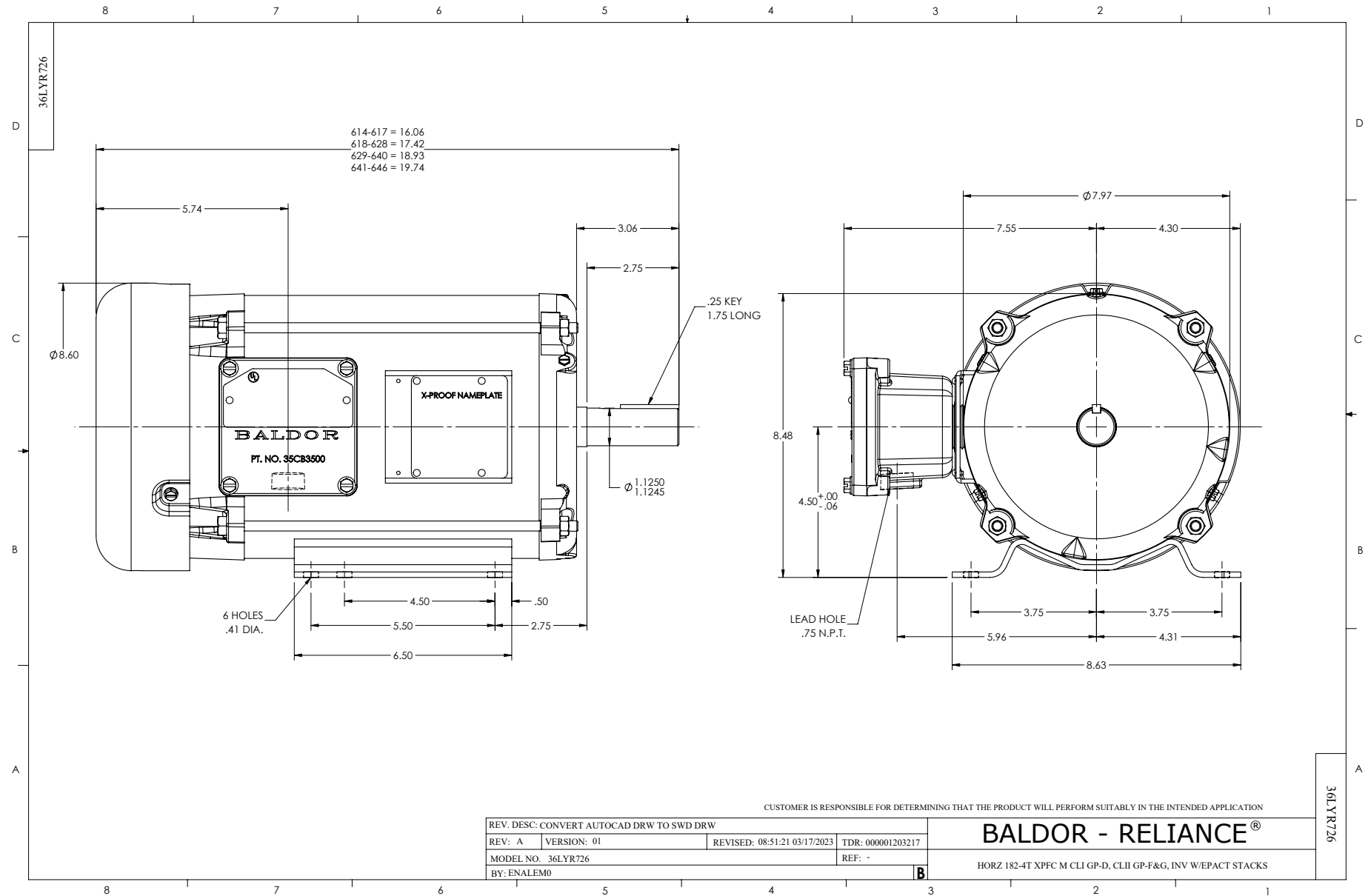
WINDING # 36WGR866

Typical performance - not guaranteed values.

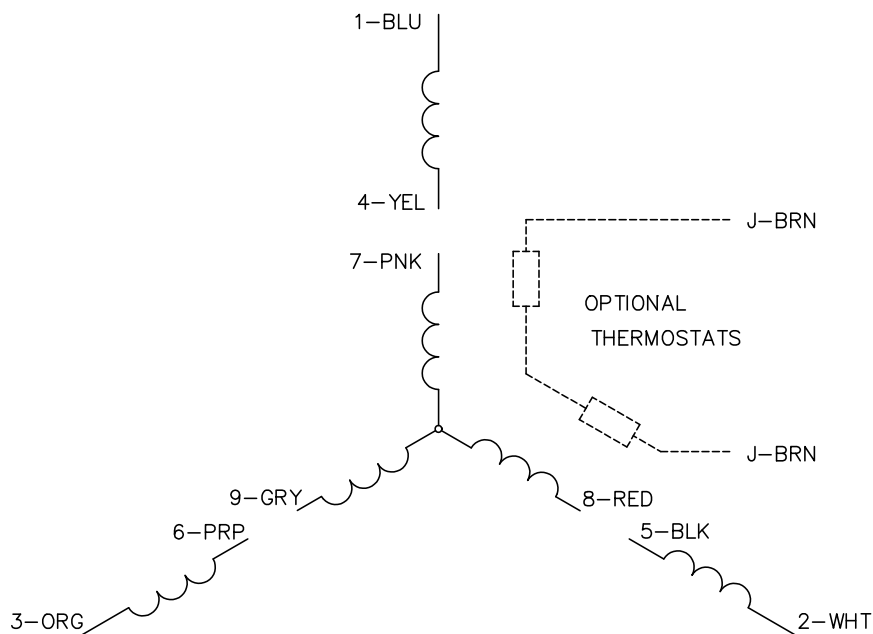
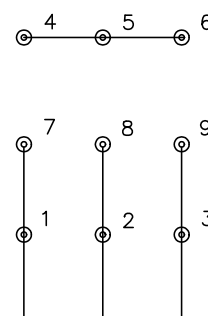
3 HP 3 PH 50 HZ 1470 RPM 380 V 3646M

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

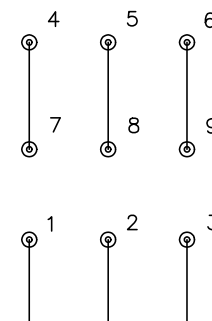




CD0005

LOW VOLTAGE
(2Y)

LINE

HIGH VOLTAGE
(1Y)

LINE

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

S00000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005