BALDOR • RELIANCE

Customer information packet

XM18542T

5HP, RPM, 3PH, 60HZ, 184T, XPFC, F1
Class - CLI GP D; CLII GP F,G
Division - Division I

12/23/2025 1:36:59 AM

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
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	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	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGR866
Layout	36LYR726
Eff. date	08-27-2025
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						

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. @ 25ºC**	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

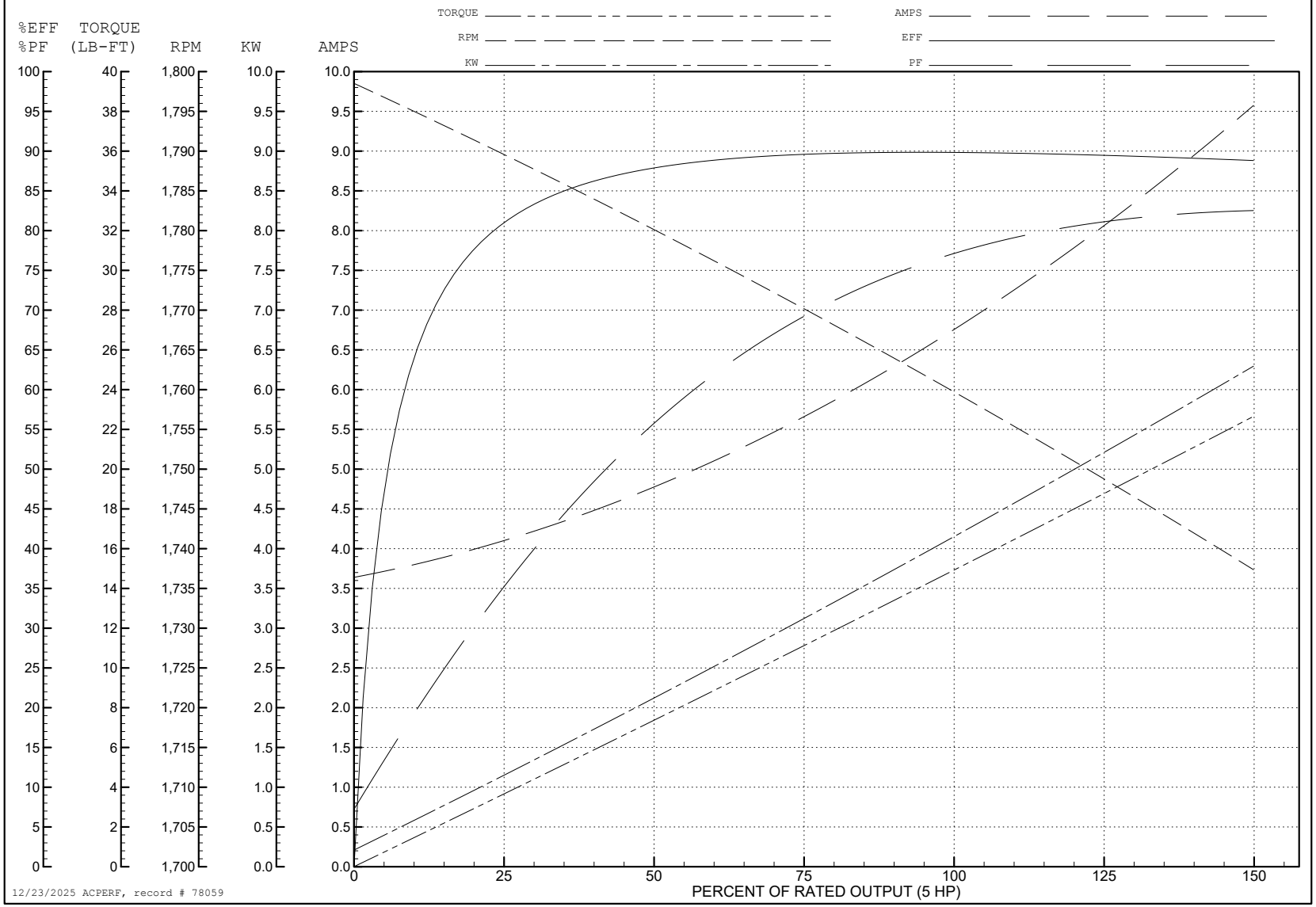
ABB Motors and Mechanical Inc.

WINDING # 36WGR866

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

Typical performance - not guaranteed values.

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



12/23/2025 ACPERF, record # 78059

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. @ 25ºC**	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

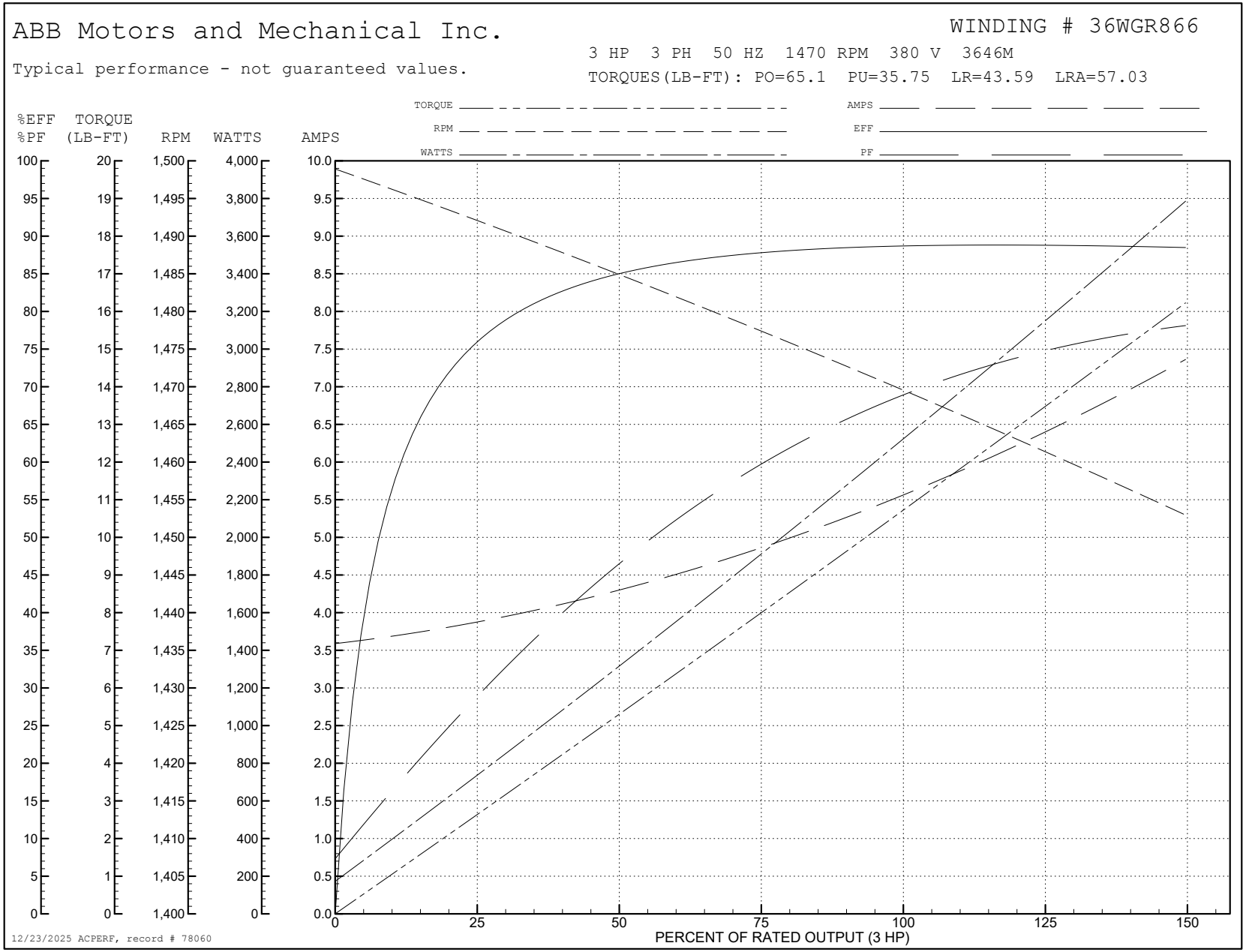
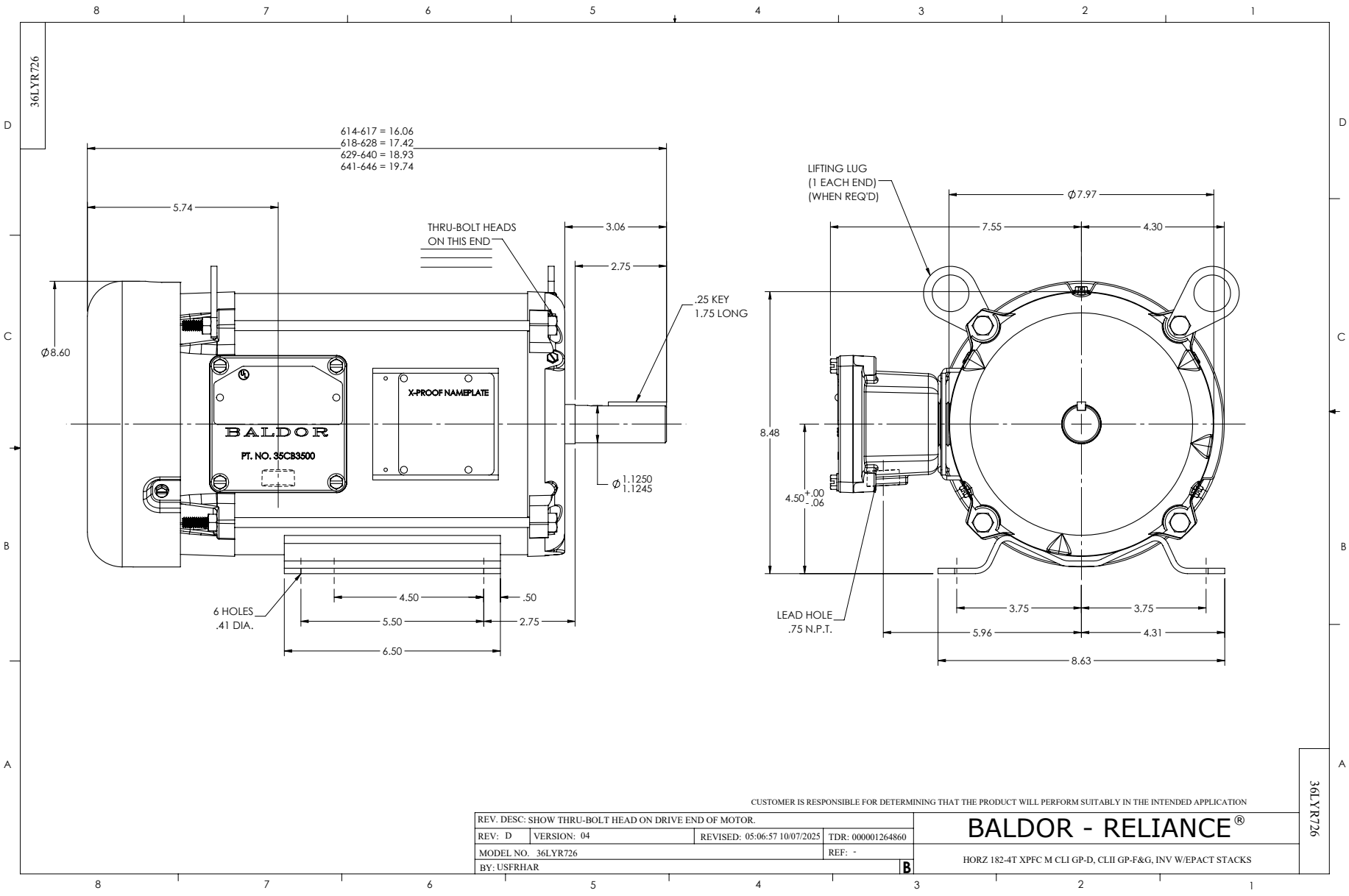
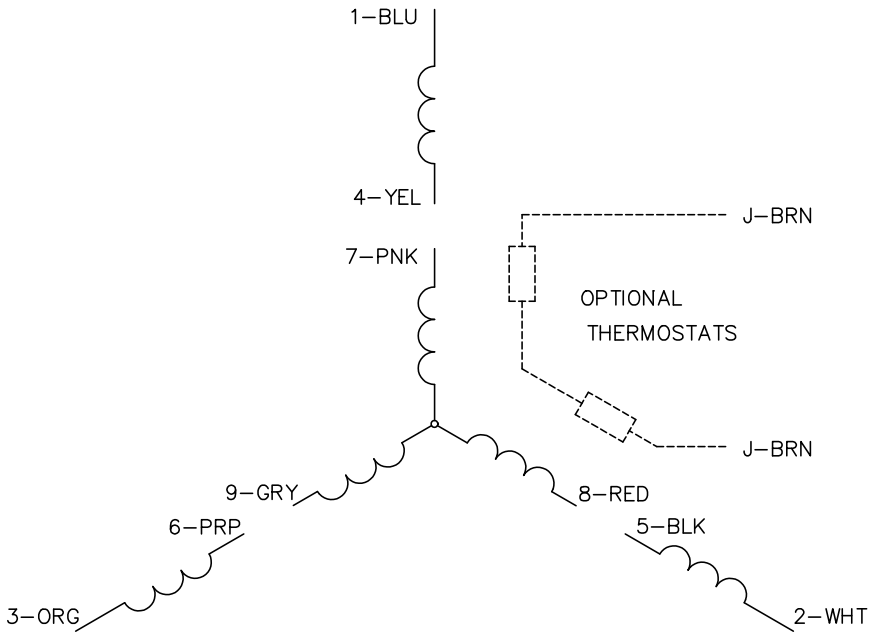
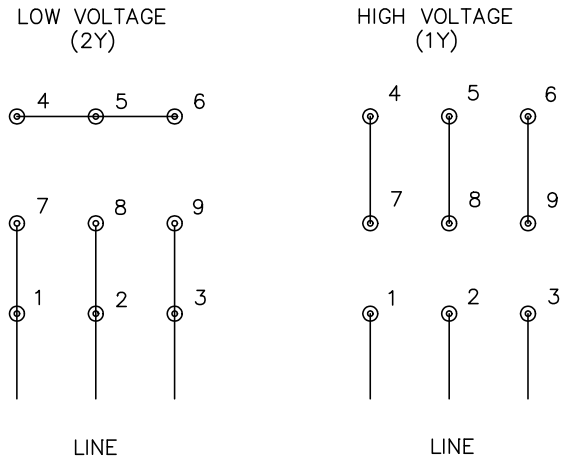


ABB Motors and Mechanical Inc.
WINDING # 36WGR866
3 HP 3 PH 50 HZ 1470 RPM 380 V 3646M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=65.1 PU=35.75 LR=43.59 LRA=57.03
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
12/23/2025 ACPERF, record # 78060


36LYR726
614-617 = 16.06
618-628 = 17.42
629-640 = 18.93
641-646 = 19.74
5.74
THRU-BOLT HEADS
ON THIS END
3.06
2.75
.25 KEY
1.75 LONG
Ø8.60
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø1.1250
1.1245
6 HOLES
.41 DIA.
4.50
.50
5.50
2.75
6.50
LIFTING LUG
(1 EACH END)
(WHEN REQ'D)
Ø7.97
7.55
4.30
8.48
4.50 +.00 -.06
LEAD HOLE
.75 N.P.T.
3.75
3.75
5.96
4.31
8.63
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: SHOW THRU-BOLT HEAD ON DRIVE END OF MOTOR.
REV: D
VERSION: 04
REVISED: 05:06:57 10/07/2025
TDR: 000001264860
MODEL NO. 36LYR726
REF: -
BY: USFRHAR
B
BALDOR - RELIANCE®
HORZ 182-4T XPFC M CLI GP-D, CLII GP-F&G, INV W/EPACT STACKS
36LYR726

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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS