ABB BALDOR RELIANCE

Customer information packet

CXM18542T

5//3HP, 1750//1460RPM, 3PH, 60//50HZ, 184TC
Class - CLI GP D; CLII GP F,G
Division - Division I

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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	5.000 HP @ 60 HZ
	3.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 50 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	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGR866
Layout	36LYK919
Eff. date	05-03-2023
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	11-12-2020

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	20.36 IN
Power Factor	74
Product Family	General Purpose
Pulley Face Code	C-Face
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.	36-0000-0439			**INV.TYPE**	PWM				
CAT.NO.	CXM18542T			**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	184TC	**RATING**	40C AMB-CONT						
	NEMA MG-1 PART 5, IP54			1.15 SF SINEWAVE					

AC Induction Motor Performance Data
Record # 78059
Typical performance - not guaranteed values

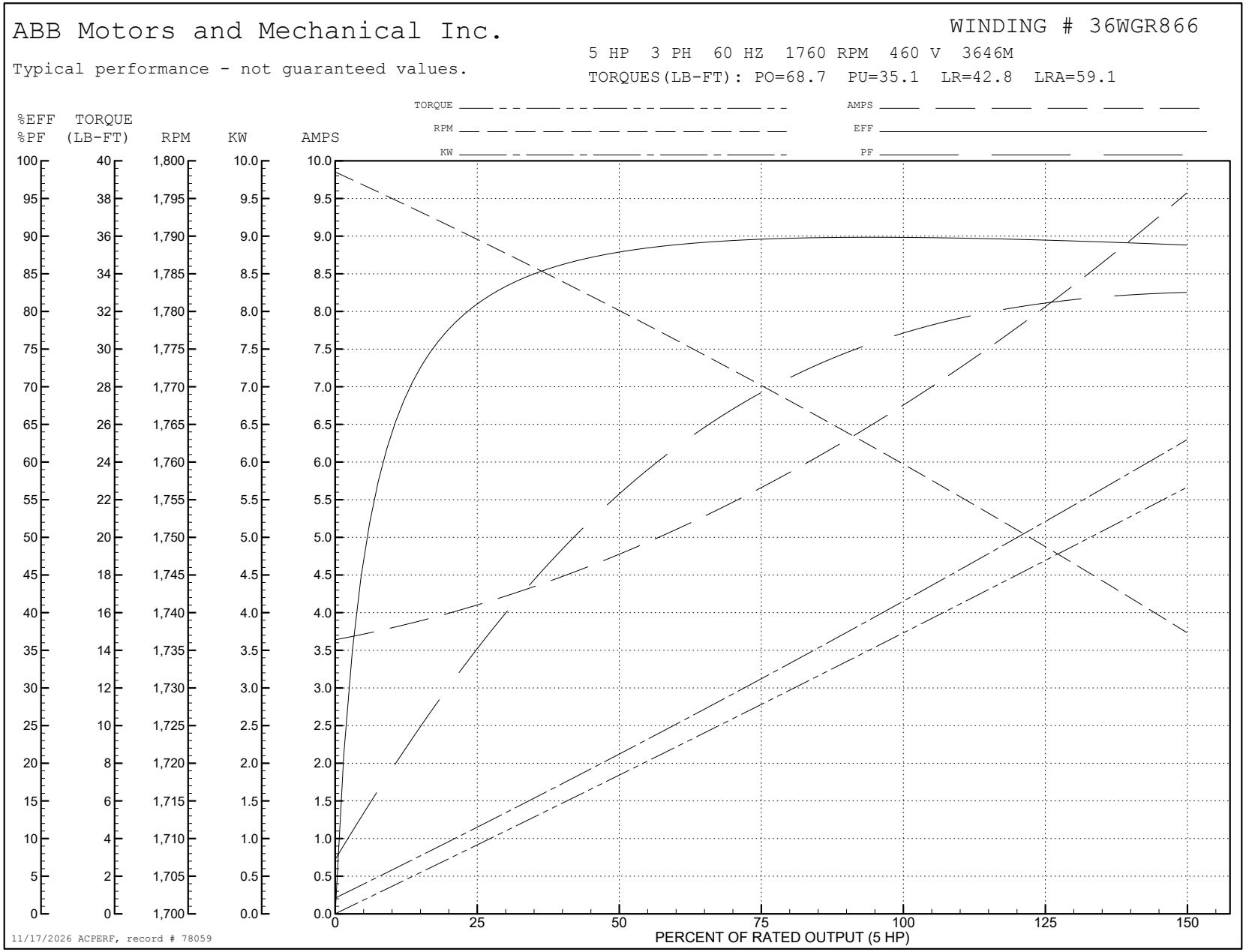
Winding: 36WGR866-R001	**Type:** 3646M	**Enclosure:** XPFC

Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			13.6/6.8//11.2/5.6
R.P.M.			1750//1460
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	74
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	14.92 LB-FT
Start Configuration	direct on line
Breakdown Torque	68.7 LB-FT
Pull-up Torque	35.1 LB-FT
Locked-rotor Torque	42.8 LB-FT
Starting Current	59.1 A
No-load Current	3.71 A
Line-line Res. @ 25ºC	1.91 Ω
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
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (5 HP)
11/17/2026 ACPERF, record # 78059

AC Induction Motor Performance Data
Record # 78060
Typical performance - not guaranteed values

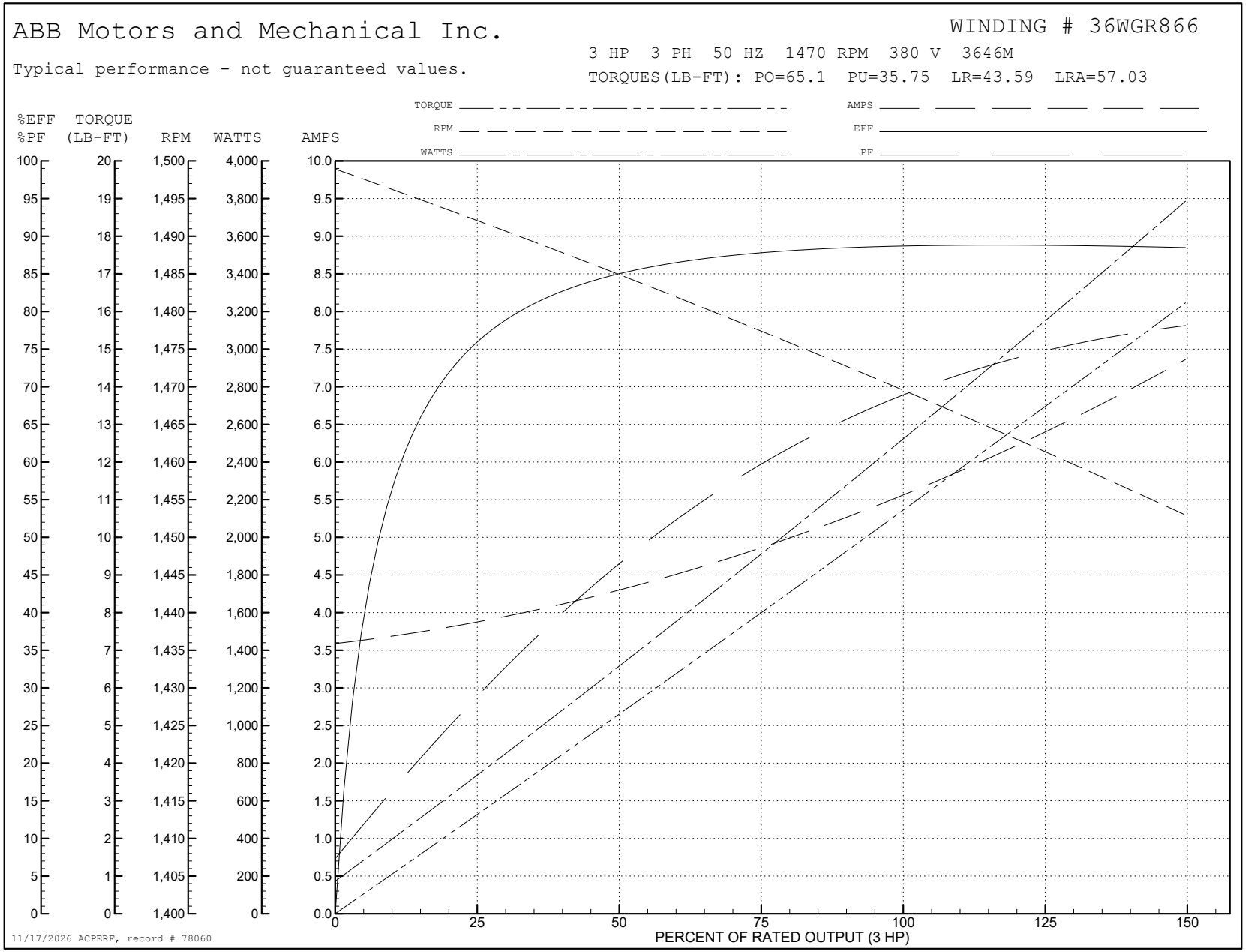
Winding: 36WGR866-R001	**Type:** 3646M	**Enclosure:** XPFC

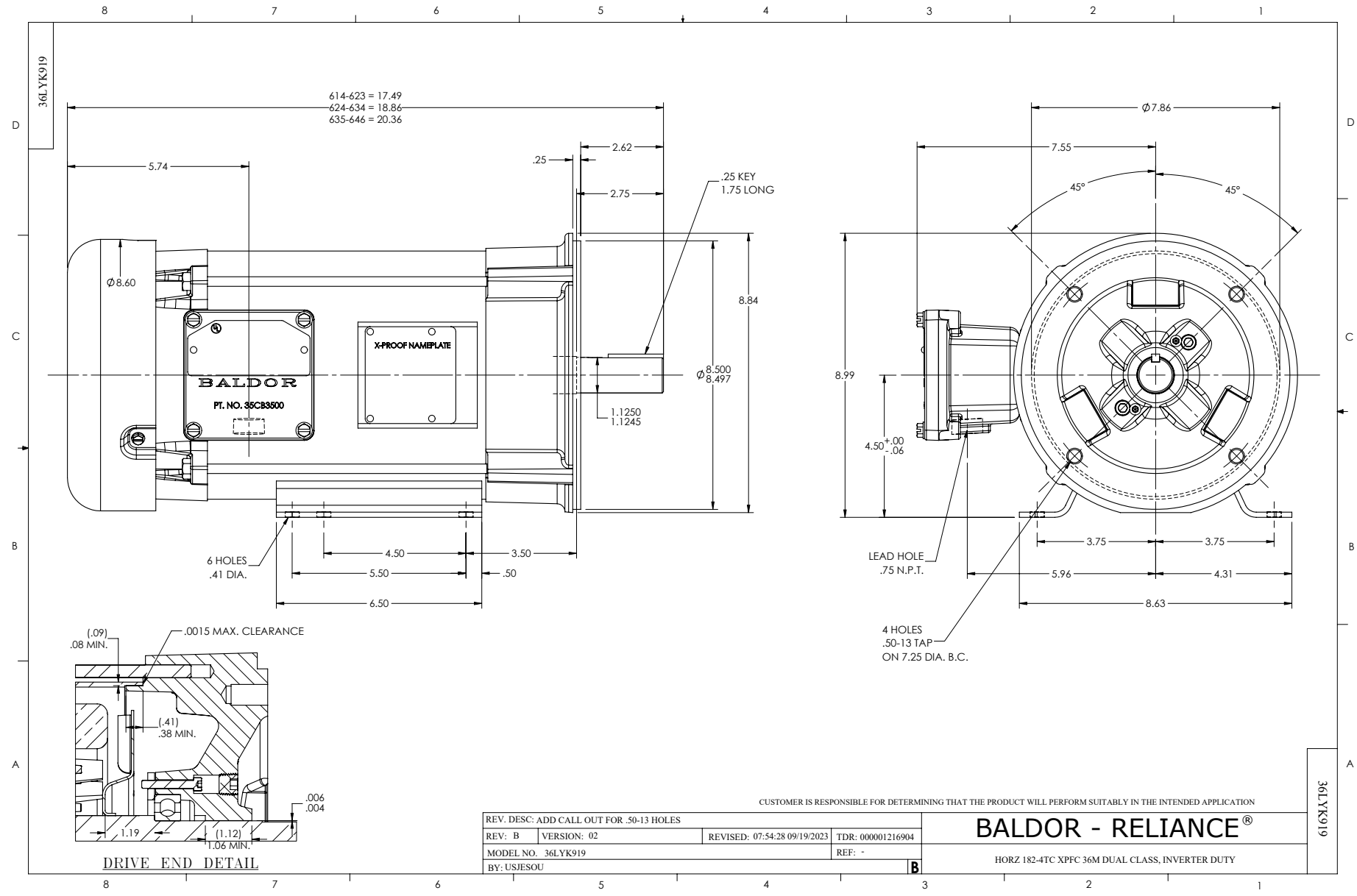
Nameplate Data			
Rated Output (HP)			5//3
Volts			230/460//190/380
Full Load Amps			13.6/6.8//11.2/5.6
R.P.M.			1750//1460
Hz	60//50	**Phase**	3
NEMA Design Code	A	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	89.5	**Power Factor**	74
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	10.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	65.1 LB-FT
Pull-up Torque	35.75 LB-FT
Locked-rotor Torque	43.59 LB-FT
Starting Current	57.03 A
No-load Current	3.63 A
Line-line Res. @ 25ºC	1.91 Ω
Temp. Rise @ Rated Load	42°C
Locked-rotor Power Factor	44
Rotor inertia	0.428 LB-FT2

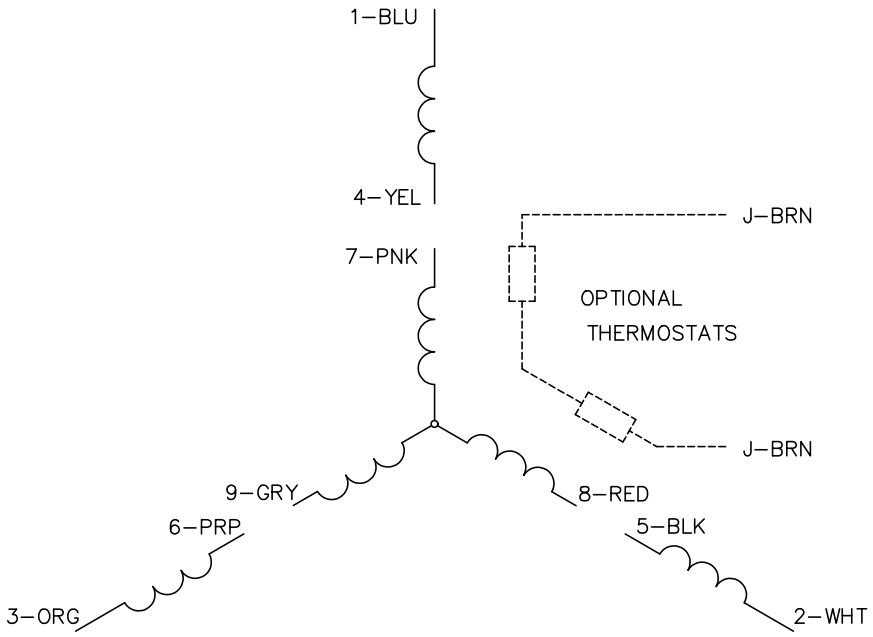
Load Characteristics 380 V, 50 Hz, 3 HP

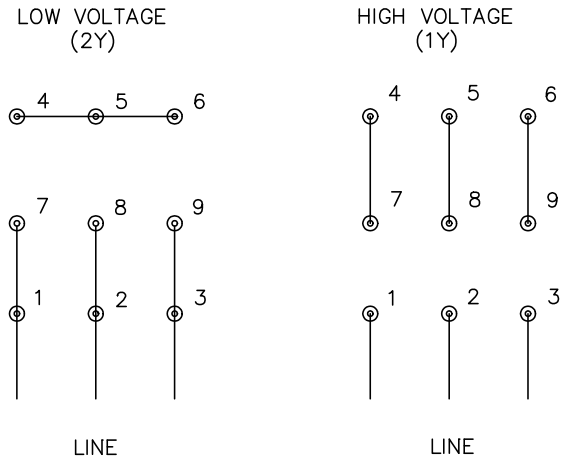
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	29	47	60	68	75	78
Efficiency	75.9	84.9	87.8	88.7	88.8	88.4
Speed	1492	1485	1477	1470	1461	1453
Line amperes	3.82	4.27	4.89	5.6	6.42	7.34


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
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/17/2026 ACPERF, record # 78060


36LYK919
614-623 = 17.49
624-634 = 18.86
635-646 = 20.36
5.74
.25
2.62
2.75
.25 KEY
1.75 LONG
Ø8.60
8.84
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø8.500
8.497
1.1250
1.1245
6 HOLES
.41 DIA.
4.50
3.50
5.50
.50
6.50
Ø7.86
7.55
45°
45°
8.99
4.50 +.00 -.06
3.75
3.75
LEAD HOLE
.75 N.P.T.
5.96
4.31
8.63
4 HOLES
.50-13 TAP
ON 7.25 DIA. B.C.
(.09)
.08 MIN.
.0015 MAX. CLEARANCE
(.41)
.38 MIN.
.006
.004
1.19
(1.12)
1.06 MIN.
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD CALL OUT FOR .50-13 HOLES
REV: B
VERSION: 02
REVISED: 07:54:28 09/19/2023
TDR: 000001216904
MODEL NO. 36LYK919
REF: -
BY: USJESOU
B
BALDOR - RELIANCE®
HORZ 182-4TC XPFC 36M DUAL CLASS, INVERTER DUTY
36LYK919

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