ABB BALDOR RELIANCE

Customer information packet

VFSWDM3651T-E

3HP, 1760RPM, 3PH, 60HZ, 145TC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
	NEMA PREMIUM
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
Current @ Voltage	8.400 A @ 230.0 V
	4.200 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a
Insulation Class	H

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGS987
Layout	36LY-000-047
Eff. date	01-16-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-23-2019

Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3636M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	17.60 IN
Power Factor	76
Product Family	WD All SS Encapsulated
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1953N01								
CAT.NO.	VFSWDM3651T-E							
SPEC.	36-0000-0048							
HP	3							
VOLTS	230/460							
AMPS	8.4/4.2							
R.P.M.	1760							
FRAME	145TC		**HZ**	60		**PH**	3	
SER.F.	1.15	**CODE**	K	**DES.**	B	**CLASS**	H	
NEMA NOM. EFF.	89.5		**P.F.**	76				
RATING	40C AMB-CONT							
CC	010A		**USABLE AT 208V**	N/A				
DE	6207		**ODE**	6206				
ENCL	TEFC	**SN**						
	4:1 CT, 10:1 VT							

Parts List

Part number	Description	Quantity
SA370016	SA 36-0000-0048	1.000 ea
RA359641	RA 36-0000-0048	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
36FH4007	FAN COVER #304 STAINLESS W/OUT GREASER	1.000 ea
10XN1032FS06	HEX HD CAP SCREW 10-32 X 3/8 SS FOOD SAF	3.000 ea
36FN3000A01SP	EXFN, PLASTIC, 7.00 OD, .912 ID	1.000 ea
11XB1214S16	12-14X1.00 HXWSSLD TYP B STAINLESS	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3101FS29	THRUBOLT, 1/4-20 X 13.000 SS FOOD SAFE	4.000 ea
RM1070A14	O-RING, -010 VITON/FKM .070CS X .239ID	4.000 ea
35CB1017A02	5/36 MID SECT - 3 PC. CONDUIT BOX 3/4 N	1.000 ea
HA3424S48	STUD - M6X1.0 THDS X 3.00"	1.000 ea
36EP1920A02	FREP TEFC 206 BRG WD11/12 (STAINLESS)	1.000 ea
HW4600F25	30 X 48 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
HW4600G02	30 X 47 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
RM1070A42	O-RING,(#70-7.239) FLOUROELASTOMER COMPO	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HA4002A03	#304 S.S. DRAIN FITTING, .125 NPT (.44 H	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
36EP1926A02	PUEP 182-4C ENCL 207 BRG WD11/12 (STAINL	1.000 ea
HW4600F79	35 X 52 X 4.5 AFS SEAL, GRAPHITE INFUSED	1.000 ea
HA4002A03	#304 S.S. DRAIN FITTING, .125 NPT (.44 H	1.000 ea
HW4600F35	35 X 52 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
RM1070A42	O-RING,(#70-7.239) FLOUROELASTOMER COMPO	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35CB1513A01	35-36-37 MACH. LID - 3 PC. CONDUIT BOX	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
G0PA1000	PKG GRP, PRINT PK1026A06	1.000 ea

HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
FE-0000016	ZTRG FE ASSEMBLY	1.000 ea
PE-0000010	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 39149
Typical performance - not guaranteed values

Winding: 36WGS987-R001	**Type:** 3636M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	9.04 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.4/4.2	**Breakdown Torque**	34.81 LB-FT
R.P.M.			1760	**Pull-up Torque**	18.62 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	21.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	34.1 A
Service Factor (S.F.)			1.15	**No-load Current**	2.25 A
NEMA Nom. Eff.	89.5	**Power Factor**	76	**Line-line Res. @ 25ºC**	3.58 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps				**Temp. Rise @ S.F. Load**	74°C
				Locked-rotor Power Factor	41
				Rotor inertia	0.335 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	36	57	69	76	80	83	78
Efficiency	82	88	89.6	89.8	89.2	88.3	89.3
Speed	1790	1781	1772	1762	1751	1738	1755
Line amperes	2.45	2.86	3.46	4.17	4.95	5.83	4.65

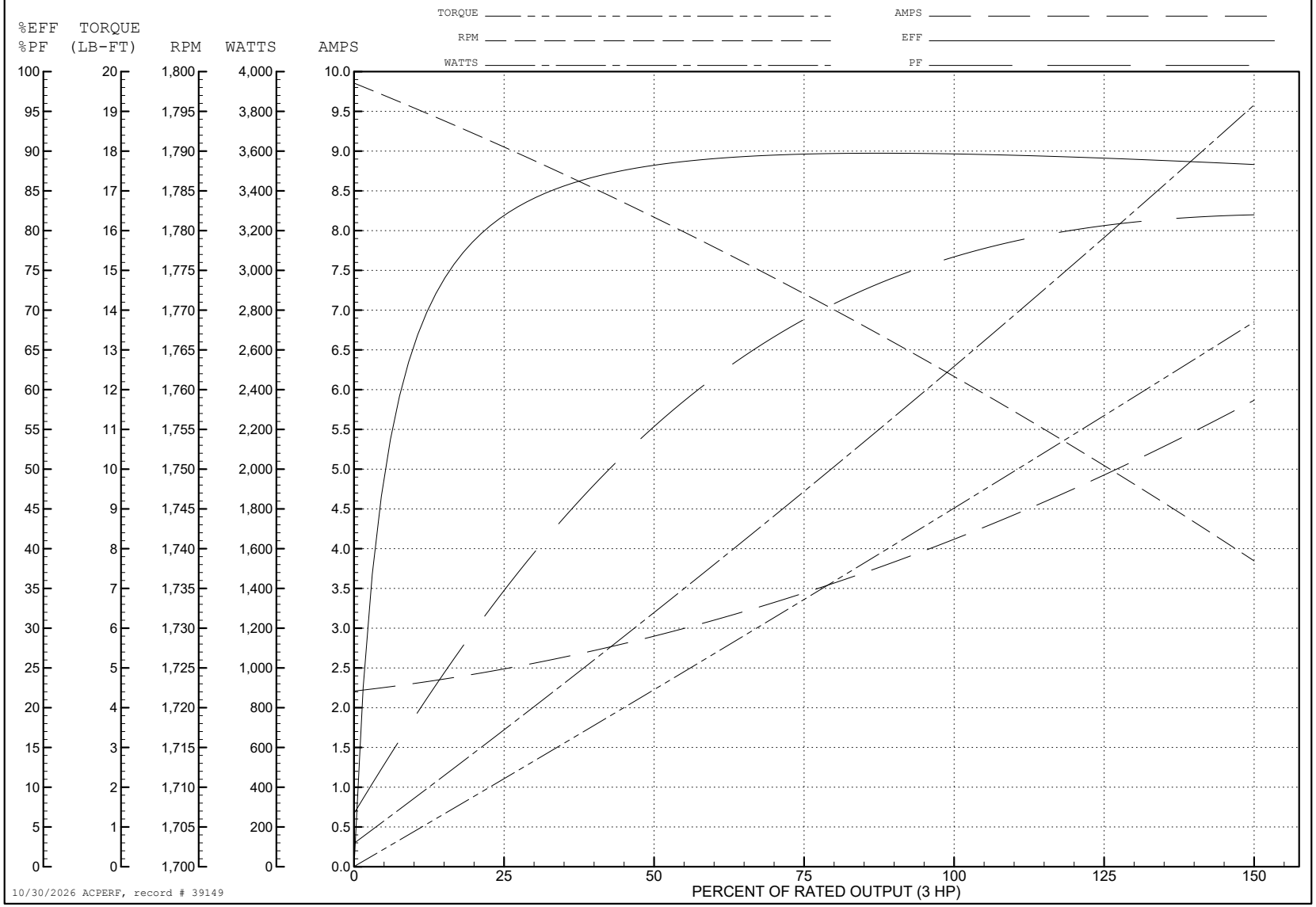
ABB Motors and Mechanical Inc.

WINDING # 36WGS987

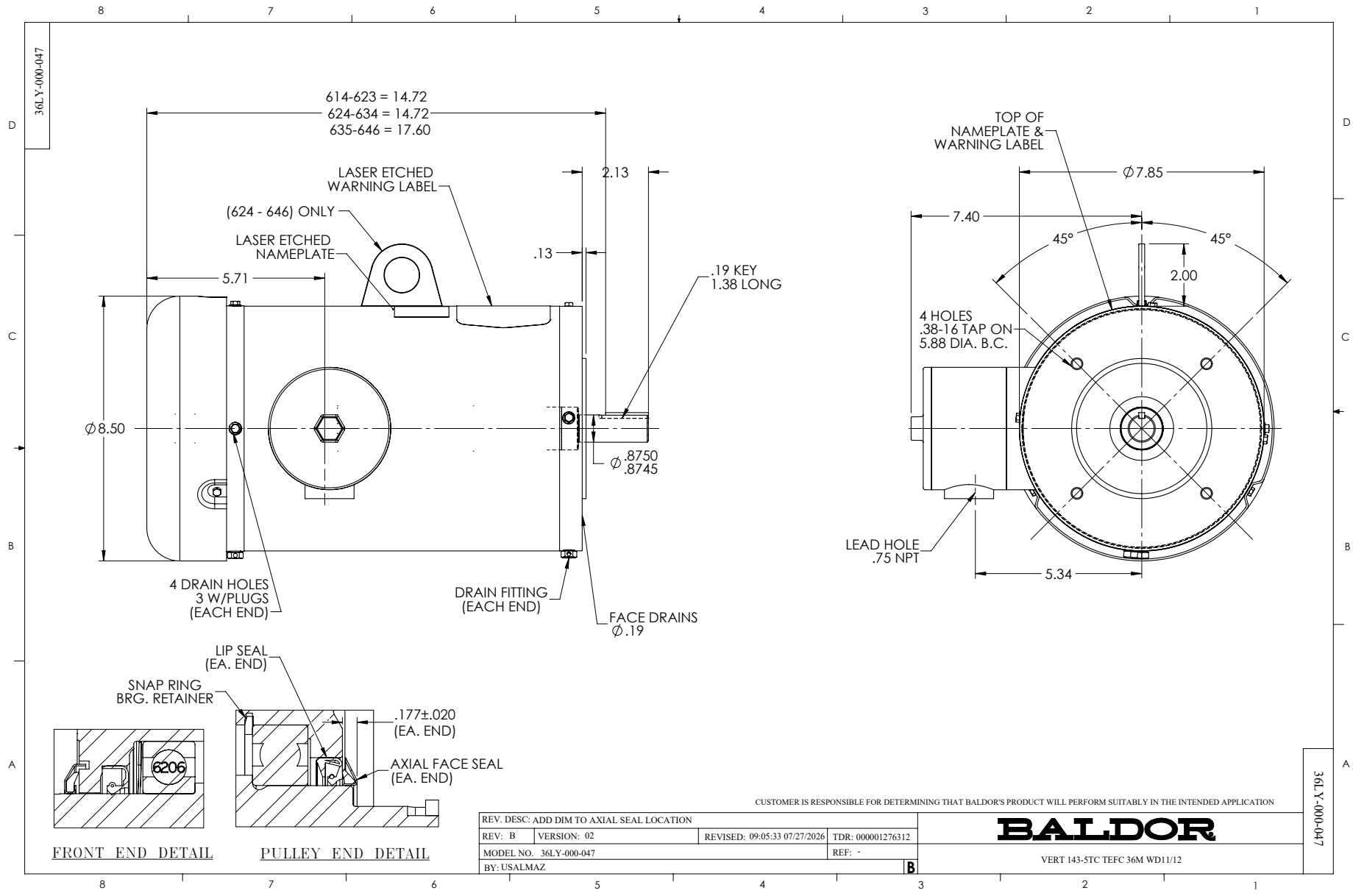
3 HP 3 PH 60 HZ 1760 RPM 460 V 3636M

Typical performance - not guaranteed values.

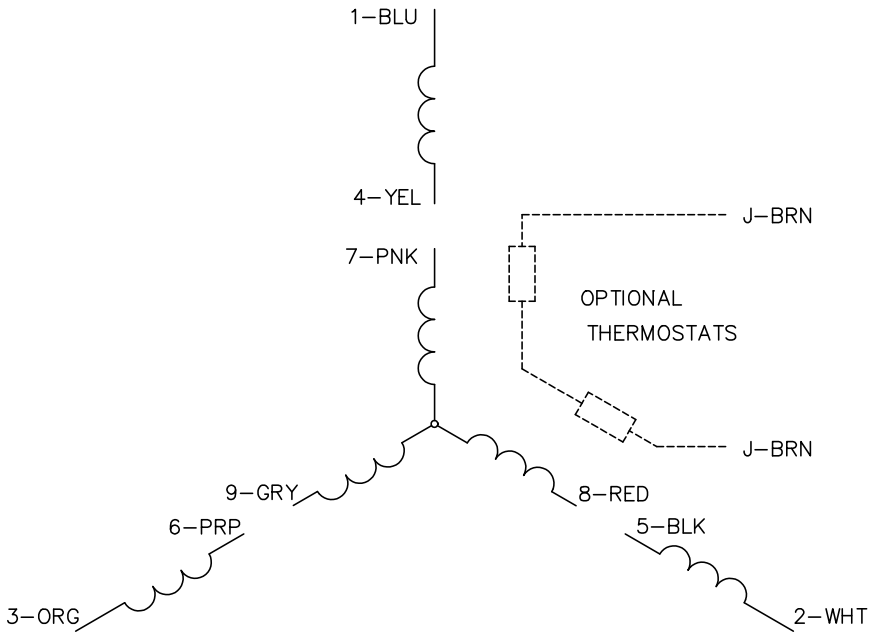
TORQUES(LB-FT): PO=34.81 PU=18.62 LR=21.9 LRA=34.1

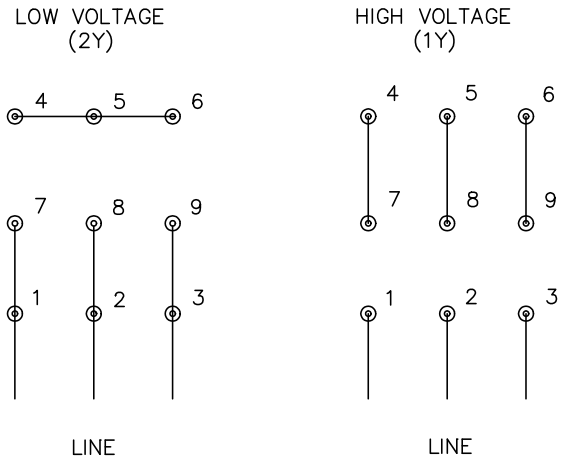


10/30/2026 ACPERF, record # 39149


36LY-000-047
614-623 = 14.72
624-634 = 14.72
635-646 = 17.60
LASER ETCHED WARNING LABEL
(624 - 646) ONLY
LASER ETCHED NAMEPLATE
2.13
.13
5.71
.19 KEY 1.38 LONG
Ø8.50
Ø.8750 .8745
4 DRAIN HOLES 3 W/PLUGS (EACH END)
DRAIN FITTING (EACH END)
FACE DRAINS Ø.19
TOP OF NAMEPLATE & WARNING LABEL
Ø7.85
7.40
45°
45°
2.00
4 HOLES .38-16 TAP ON 5.88 DIA. B.C.
LEAD HOLE .75 NPT
5.34
LIP SEAL (EA. END)
SNAP RING BRG. RETAINER
.177±.020 (EA. END)
AXIAL FACE SEAL (EA. END)
6206
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: B VERSION: 02 REVISED: 09:05:33 07/27/2026 TDR: 000001276312
MODEL NO. 36LY-000-047 REF: -
BY: USALMAZ
B
BALDOR
VERT 143-5TC TEFC 36M WD11/12
36LY-000-047

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