ABB BALDOR RELIANCE

Customer information packet

VFSWDM3714T-5E

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3756M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215TC
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	10.100 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	10.1 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K

Part Detail

Revision	H
Type	AC
Mech. spec.	37Q227
Base	
Status	PRD/A
Elec. spec.	37WGS360
Layout	37LYQ227
Eff. date	09-22-2023
CD Diagram	CD0006
Poles	04
Leads	3#14
Proprietary	False
Created date	01-22-2019

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	3 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	22.12 IN
Power Factor	81
Product Family	WD All SD Non-Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 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

NP4427AAA02												
CAT #	VFSWDM3714T-5E			**WGT**		**LBS**						
SPEC	37Q227S360G2			**ENCL**	TEFC							
SER #				**CC**	010A	**IP**	69					
HP	10		**MAG CUR**	4.5								
VOLTS	575					**NEMA NOM. EFF**	92.4					
AMPS	10.1				**PF**	81						
RATING	40C AMB-CONT											
RPM	1770			**MAX RPM**	4500							
FRAME	215TC	**HZ**	60	**CODE**	K	**CLASS**	H					
SER.F.	1.00	**SF AMP**			**PH**	3	**DES**	B				
DE	6307		**ODE**	6307								
LUBRICATION	POLYREX EM											
ID LOGO	**INVERTER TYPE**		**VPWM**		**CHP**	60	**TO**	90	1.5:1			
ID LOGO	**WK2**	1.38	**CT**	15	**TO**	60	4:1					
ID LOGO	**SL HZ**	1	**VT**	6	**TO**	60	10:1					
	1.15 SF SINEWAVE											
								QR				
YR												

Parts List

Part number	Description	Quantity
SA365553	SA 37Q227S360G2	1.000 ea
RA354946	RA 37Q227S360G2	1.000 ea
35CB1017B01	37 MID SECT - 3 PC. CONDUIT BOX 1.00 NPT	1.000 ea
RM1070A81	O-RING, -043 VITON/FKM .070CS X 3.489ID	1.000 ea
HA3424S64	STUD - M6X1.0 THDS X 4.00"	1.000 ea
11XW1032G08	10-32 X .50, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
37EP1920A03	FREP, TEFC MACH - 307 BRG WD11/12 (STAIN	1.000 ea
RM1070A48	O-RING, .070 C.S. X 8.656 ID, VITON	1.000 ea
HW4600F35	35 X 52 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600F34	35 X 53 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
37EP1925A01	PUEP, MACH - 307 BRG WD11/12 (STAINLESS)	1.000 ea
RM1070A48	O-RING, .070 C.S. X 8.656 ID, VITON	1.000 ea
HW4600F35	35 X 52 X 8 LIP SEAL, GRAPHITE INFUSED V	1.000 ea
HW4600F34	35 X 53 X 4.5 AFX SEAL, GRAPHITE INFUSED	1.000 ea
RM1070A47	O-RING, -011 VITON/FKM .070CS X .301ID	4.000 ea
11XB1214S16	12-14X1.00 HXWSSLD TYP B STAINLESS	1.000 ea
37FH4000A45	STAINLESS FAN COVER, NO GREASER SLOT (FO	1.000 ea
10XN1032FS06	HEX HD CAP SCREW 10-32 X 3/8 SS FOOD SAF	3.000 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
HW2502F21	#303 SS,SQ KEY 5/16 X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.005 qt
MJ5004A93	FOOD GRADE (H1 RATED) ANTISEIZE THRD COM	0.005 ea
HA1025A21	WSHR,FELT .125" THK	1.000 ea
HA5027A09	DRAIN KIT,(2)HA4002A03 BAGGED W/LABEL	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb

37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
WD5603A02	KIT, CLOSED-END LEAD SPLICE (18-14GA)	1.000 ea
HA3104FS31	THRUBOLT, 5/16-18 X 15.875 SS FOOD SAFE	4.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
PK3082	STYROFOAM CRADLE	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000016	ZTRG FE ASSEMBLY	1.000 ea
PE-0000010	ZRTG PE ASSEMBLY	1.000 ea

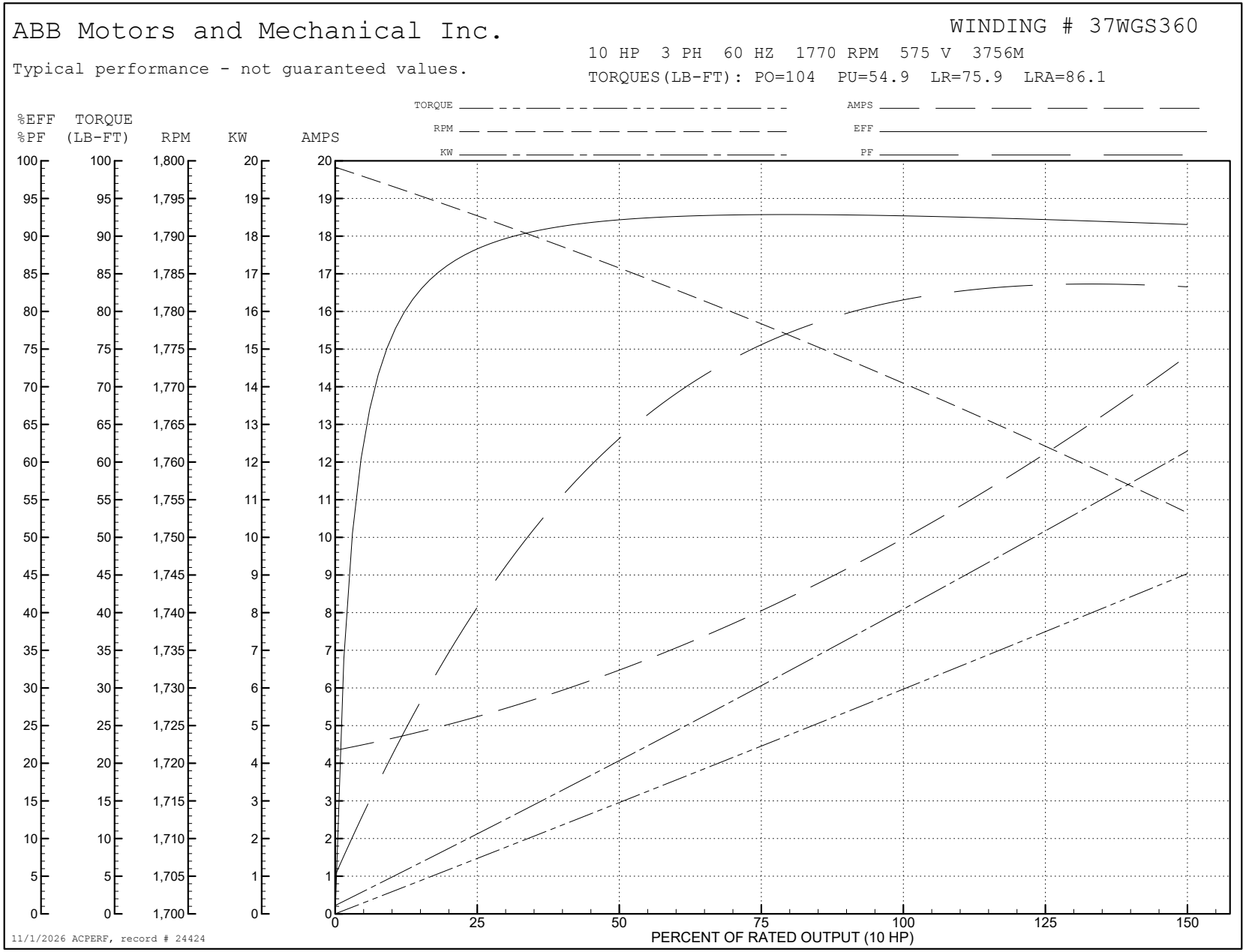
AC Induction Motor Performance Data
Record # 24424
Typical performance - not guaranteed values

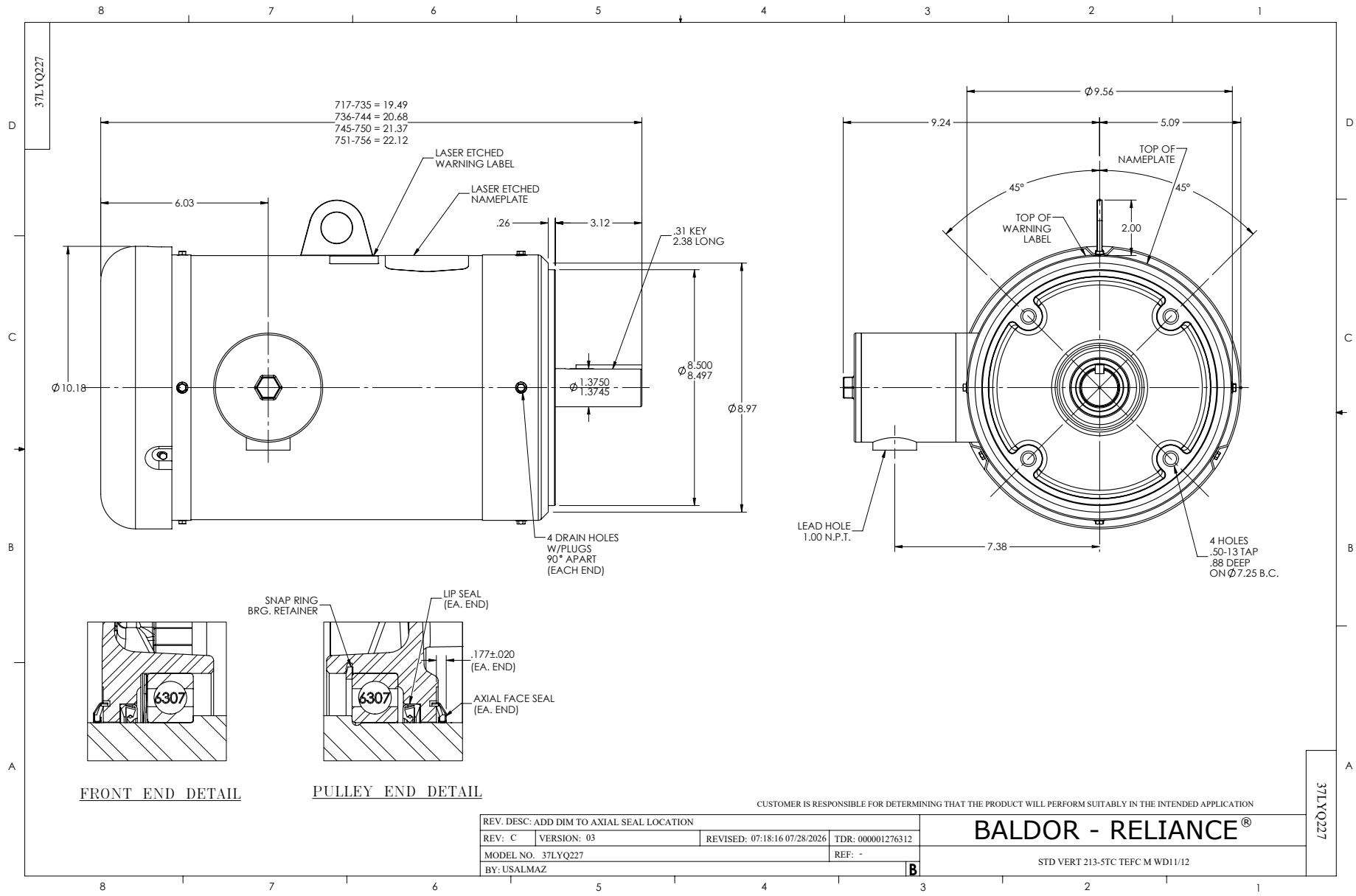
Winding: 37WGS360-R001	**Type:** 3756M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			10	**Full Load Torque**	29.9 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			10.1	**Breakdown Torque**	104 LB-FT
R.P.M.			1770	**Pull-up Torque**	54.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	75.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	86.1 A
Service Factor (S.F.)			1	**No-load Current**	4.49 A
NEMA Nom. Eff.	92.4	**Power Factor**	81	**Line-line Res. @ 25ºC**	1.25 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	77°C
				Locked-rotor Power Factor	32
				Rotor inertia	1.38 LB-FT2

Load Characteristics 575 V, 60 Hz, 10 HP

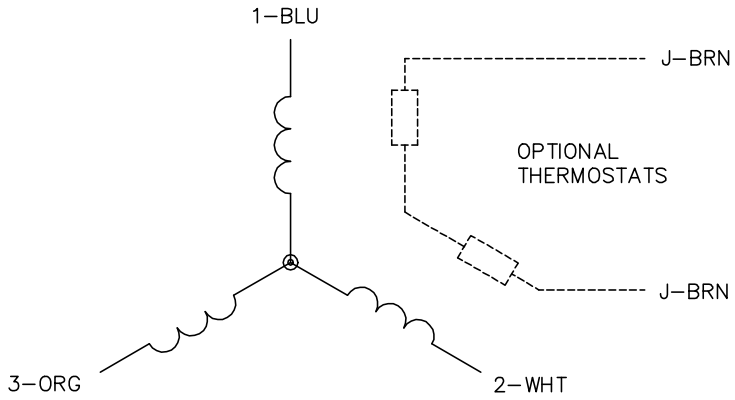
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	42	64	75	81	83	84
Efficiency	87.8	92.2	92.9	92.8	92.1	91.6
Speed	1793	1786	1778	1770	1763	1753
Line amperes	5.07	6.34	8.08	10.1	12.3	14.7

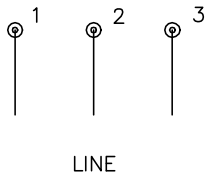

ABB Motors and Mechanical Inc.
WINDING # 37WGS360
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 1770 RPM 575 V 3756M
TORQUES(LB-FT): PO=104 PU=54.9 LR=75.9 LRA=86.1
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/1/2026 ACPERF, record # 24424


37LYQ227
717-735 = 19.49
736-744 = 20.68
745-750 = 21.37
751-756 = 22.12
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
6.03
.26
3.12
.31 KEY 2.38 LONG
Ø10.18
Ø1.3750 1.3745
Ø8.500 8.497
Ø8.97
4 DRAIN HOLES W/PLUGS 90° APART (EACH END)
Ø9.56
9.24
5.09
TOP OF NAMEPLATE
45°
45°
TOP OF WARNING LABEL
2.00
LEAD HOLE 1.00 N.P.T.
7.38
4 HOLES .50-13 TAP .88 DEEP ON Ø7.25 B.C.
SNAP RING BRG. RETAINER
LIP SEAL (EA. END)
.177±.020 (EA. END)
AXIAL FACE SEAL (EA. END)
6307
6307
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD DIM TO AXIAL SEAL LOCATION
REV: C
VERSION: 03
REVISED: 07:18:16 07/28/2026
TDR: 000001276312
MODEL NO. 37LYQ227
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD VERT 213-5TC TEFC M WD11/12
37LYQ227

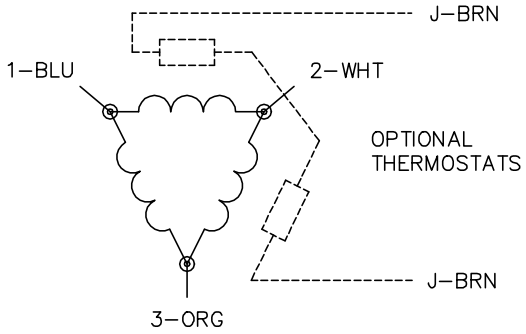
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1