ABB BALDOR RELIANCE

Customer information packet

FSWDM3710T-E

7.5HP, 1770RPM, 3PH, 60HZ, 213T, 3740M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213T
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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
Current @ Voltage	19.000 A @ 230.0 V
	9.500 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	P
Type	AC
Mech. spec.	37Q321
Base	
Status	PRD/A
Elec. spec.	37WGS250
Layout	37LYQ321
Eff. date	09-09-2026
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	01-08-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	9.5 a
Insulation Class	H
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.93 IN
Power Factor	81
Product Family	WD All SS Encapsulated
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
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

NP4427AAA01												
CAT #	FSWDM3710T-E			**WT**	136	**LBS**						
SPEC	37Q321S250G1			**ENCL**	TEFC							
SER #				**CC**	010A	**IP**	69					
HP	7.5			**MAG CUR**	8.8/4.4							
VOLTS	230/460					**NEMA NOM. EFF**	91.7					
AMPS	19/9.5					**PF**	81					
RATING	40C AMB-CONT											
RPM	1770				**MAX RPM**	2700						
FRAME	213T	**HZ**	60	**CODE**	J	**CLASS**	H					
SER.F.	1.15	**SF AMP**	22/11			**PH**	3	**DES**	A			
DE	6307			**ODE**	6307							
LUBRICATION	POLYREX EM											
ID LOGO		**INVERTER TYPE**		**VPWM**		**CHP**	60	**TO**	90	1.5:1		
ID LOGO	**WK2**	0.98	**CT**	15	**TO**	60		4:1				
ID LOGO	**SL HZ**	1	**VT**	6	**TO**	60		10:1				
						QR						
YR												

Parts List

Part number	Description	Quantity
SA350544	SA 37Q321S250G1	1.000 ea
RA339201	RA 37Q321S250G1	1.000 ea
37FN3002B01	EXFN, PLASTIC, 7.50 OD, 1.155 ID	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
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
RM1070A47	O-RING, -011 VITON/FKM .070CS X .301ID	4.000 ea
11XB1214S16	12-14X1.00 HXWSSLD TYP B STAINLESS	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
37EP1920A01	PUEP, MACH - 307 BRG WD11/12 (STAINLESS)	1.000 ea
RM1070A48	O-RING, .070 C.S. X 8.656 ID, VITON	1.000 ea
HW4600F34	35 X 53 X 4.5 AFX SEAL, GRAPHITE INFUSED	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
WD5603A01	KIT, CLOSED-END LEAD SPLICE (18-14GA)	1.000 ea
HA3104FS35	THRUBOLT, 5/16-18 X 13.687 SS FOOD SAFE	4.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 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 # 23247
Typical performance - not guaranteed values

Winding: 37WGS250-R001	**Type:** 3740M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		7.5	**Full Load Torque**	22.25 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		19/9.5	**Breakdown Torque**	73.15 LB-FT
R.P.M.		1770	**Pull-up Torque**	39.78 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	47.8 LB-FT
NEMA Design Code	A **KVA Code**	J	**Starting Current**	74.95 A
Service Factor (S.F.)		1.15	**No-load Current**	4.39 A
NEMA Nom. Eff.	91.7 **Power Factor**	81	**Line-line Res. @ 25ºC**	1.33 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps			**Temp. Rise @ S.F. Load**	84°C
			Locked-rotor Power Factor	37
			Rotor inertia	0.984 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	75	81	83	85	82
Efficiency	86.5	90.9	92	91.7	90.8	89.7	91.4
Speed	1793	1786	1779	1771	1761	1751	1764
Line amperes	4.89	6.02	7.67	9.49	11.62	13.88	10.7

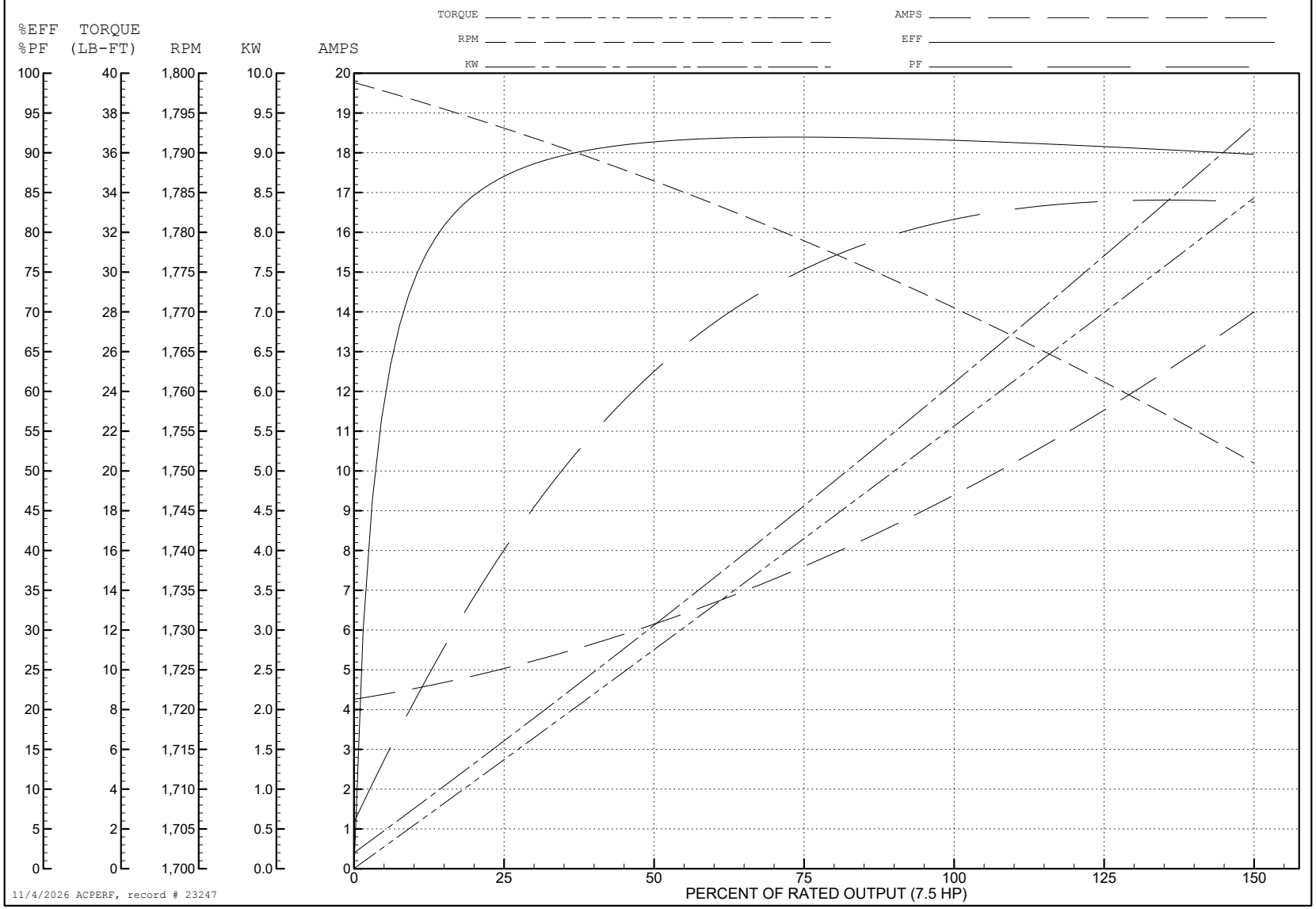
ABB Motors and Mechanical Inc.

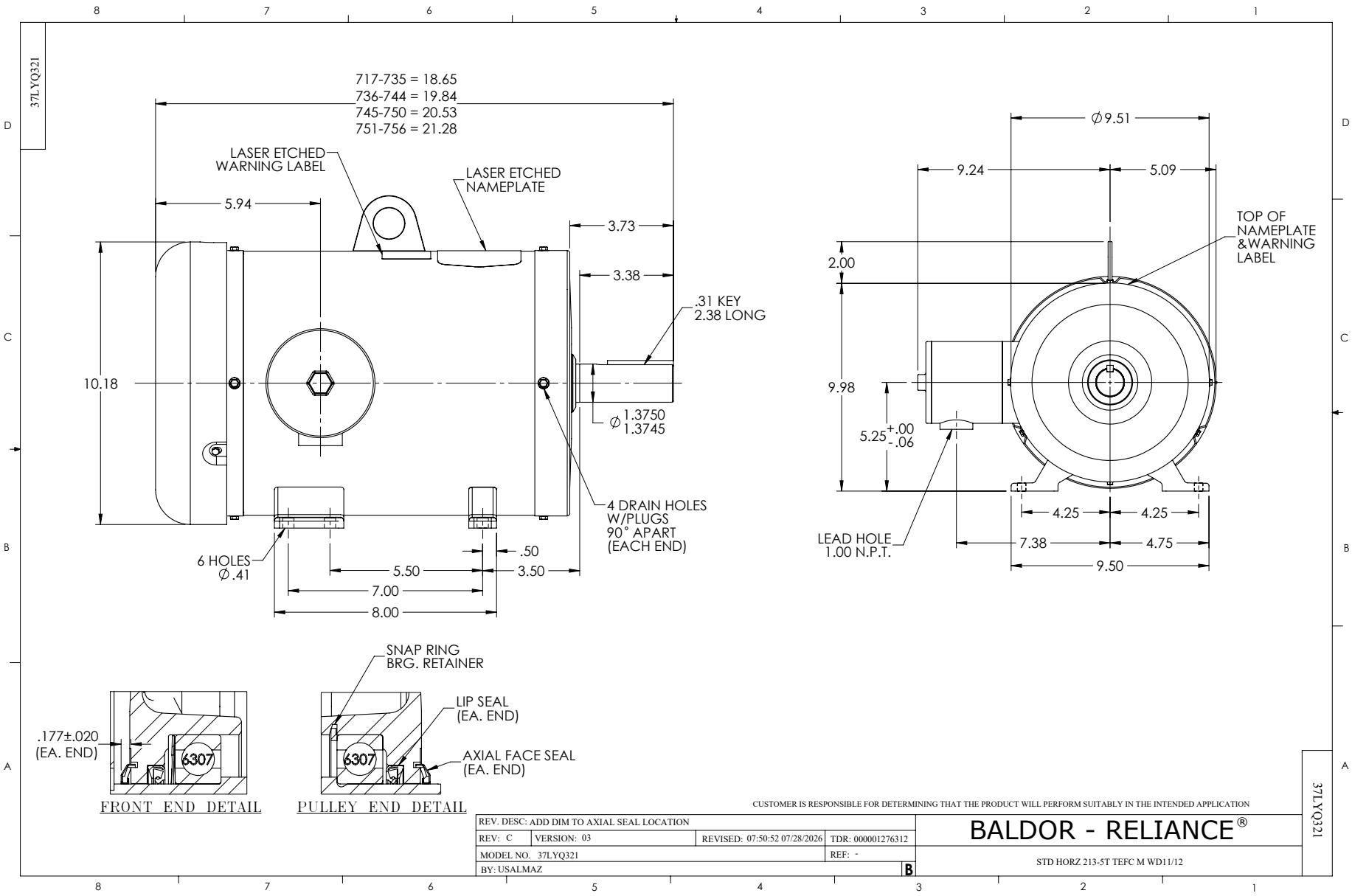
WINDING # 37WGS250

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3740M

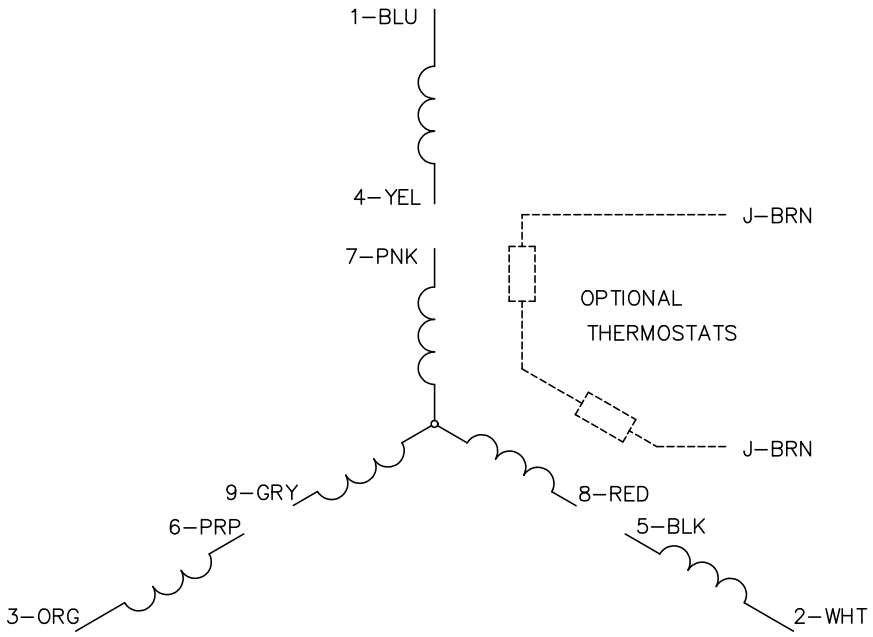
Typical performance - not guaranteed values.

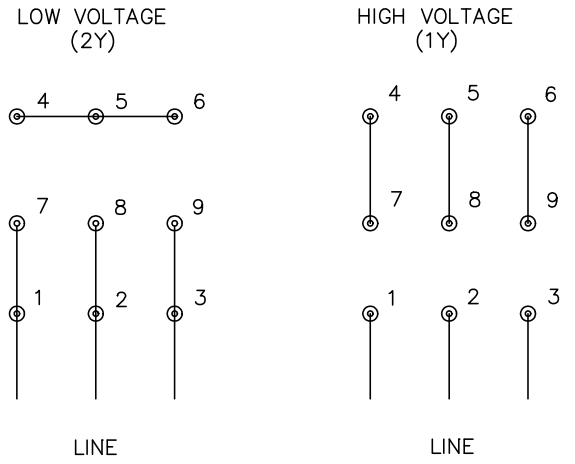
TORQUES(LB-FT): PO=73.15 PU=39.78 LR=47.8 LRA=74.95




37LYQ321
717-735 = 18.65
736-744 = 19.84
745-750 = 20.53
751-756 = 21.28
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
5.94
3.73
3.38
.31 KEY 2.38 LONG
10.18
Ø1.3750 1.3745
4 DRAIN HOLES W/PLUGS 90° APART (EACH END)
6 HOLES Ø.41
.50
5.50
3.50
7.00
8.00
Ø9.51
9.24
5.09
TOP OF NAMEPLATE &WARNING LABEL
2.00
9.98
5.25 +.00 -.06
LEAD HOLE 1.00 N.P.T.
4.25
4.25
7.38
4.75
9.50
SNAP RING BRG. RETAINER
LIP SEAL (EA. END)
.177±.020 (EA. END)
6307
AXIAL FACE SEAL (EA. END)
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: 07:50:52 07/28/2026 TDR: 000001276312
MODEL NO. 37LYQ321 REF: -
BY: USALMAZ B
BALDOR - RELIANCE®
STD HORZ 213-5T TEFC M WD11/12
37LYQ321

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