ABB BALDOR RELIANCE

Customer information packet

EWDM23994T

15HP, 3450RPM, 3PH, 60HZ, 254T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	15.300 A @ 460.0 V
	30.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	15.3 a

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGL723
Layout	37LY-000-114
Eff. date	09-30-2025
CD Diagram	CD0005
Poles	02
Leads	9#12
Proprietary	False
Created date	01-21-2020

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	22.32 IN
Power Factor	98
Product Family	Wash Down
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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

NP1669L									
CAT.NO.	EWDM23994T								
SPEC.	37-0000-0198								
HP	15								
VOLTS	230/460								
AMP	30.6/15.3								
RPM	3450								
FRAME	254T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	G	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	91	**PF**	98						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6206						
ENCL	TEFC	**SN**							
BLANK	20: CT, 20:1 VT, 1.00SF								

Parts List

Part number	Description	Quantity
SA378179	SA 37-0000-0198	1.000 ea
RA368114	RA 37-0000-0198	1.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP1669L	SS WD SUPER-E UL PREM REV MTG	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
07FH4011	WASHDOWN IEC FH W/PRIMED	1.000 ea
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 ea
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3104S25	THRUBOLT-5/16-18X14.75 SS	1.000 ea
37EP3101A33MW	FRONT ENDPLATE, MACHINED W/WHITE EPOXY	1.000 ea
HW4600B36SP	V-RING SLINGER 1.188 X 1.380 X .24 VITON	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
37EP1105A03MW	PULLEY ENCL 309 BRG W/ RETAINER (FOR WAS	1.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HW4600B53	SEAL 1.688 X 2.275 X 0.312 SINGLE LIP DB	1.000 ea
10XN2520S28	1/4-20X 1 3/4 HEX HD SS X	4.000 ea
HA5027A01	HA4066A01 T-DRAIN X2 BAGGED	1.000 ea
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
09CB3000A02W	309 CONDUIT BOX W/1.25 N.P.T. W/ WHITE E	1.000 ea
09GS1006	GASKET, CONDUIT BOX, NEOP-1/16 THICK-BLA	2.000 ea
HA6429W	KO BOX ADAPTER W/WHITE EPOXY	1.000 ea
19XW2520A16	SCREW,1/4-20X1 TAPTITE-II OR ROLOC 91	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
09CB3500W	CONDUIT BOX LID, CAST W/ WHITE EPOXY	1.000 ea

09GS1001A01	GASKET, BOX LID, 1/8 THICK BLACK NEOPREN	1.000 ea
11XT2520S14	1/4-20 X 7/8 HX WSHR HD SL,STAINLESS STE	2.000 ea
MG1025W01	WILKOFAST, 781.01, SIGNAL WHITE #9003	0.022 ga
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
HW2502G25	#303 SS,SQ KEY 3/8 X 2.880	1.000 ea
HA7000A03	KEY RETAINER RING 1.62 & 1.88 DIA. SH	1.000 ea
MG1025Z02	ACTIVATOR WILKOFAST 060.02HF	0.022 ga
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea

AC Induction Motor Performance Data
Record # 66521
Typical performance - not guaranteed values

Winding: 37WGL723-R001	**Type:** 3756M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.11 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			30.6/15.3	**Breakdown Torque**	67.78 LB-FT
R.P.M.			3450	**Pull-up Torque**	34.29 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	39.15 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	114 A
Service Factor (S.F.)			1.15	**No-load Current**	2.51 A
NEMA Nom. Eff.	91	**Power Factor**	98	**Line-line Res. @ 25ºC**	0.545 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C
S.F. Amps				**Temp. Rise @ S.F. Load**	100°C
				Locked-rotor Power Factor	29.7
				Rotor inertia	0.512 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	88	98	99	98	97	95	97
Efficiency	90.4	92.9	92.3	91.4	90	88	90
Speed	3573	3543	3512	3479	3440	3392	3439
Line amperes	4.12	7.42	11.12	15.27	19.85	25.61	18.2

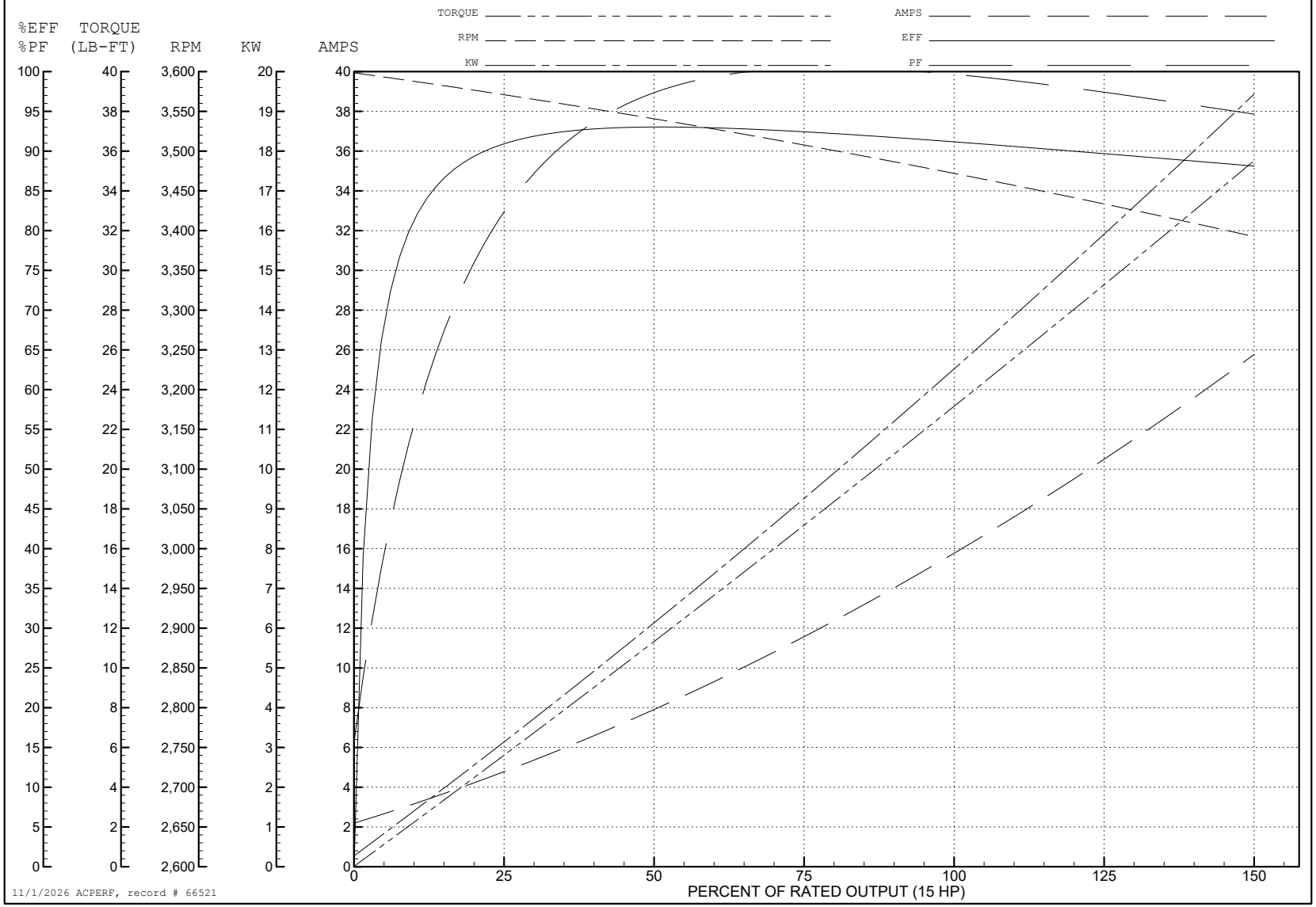
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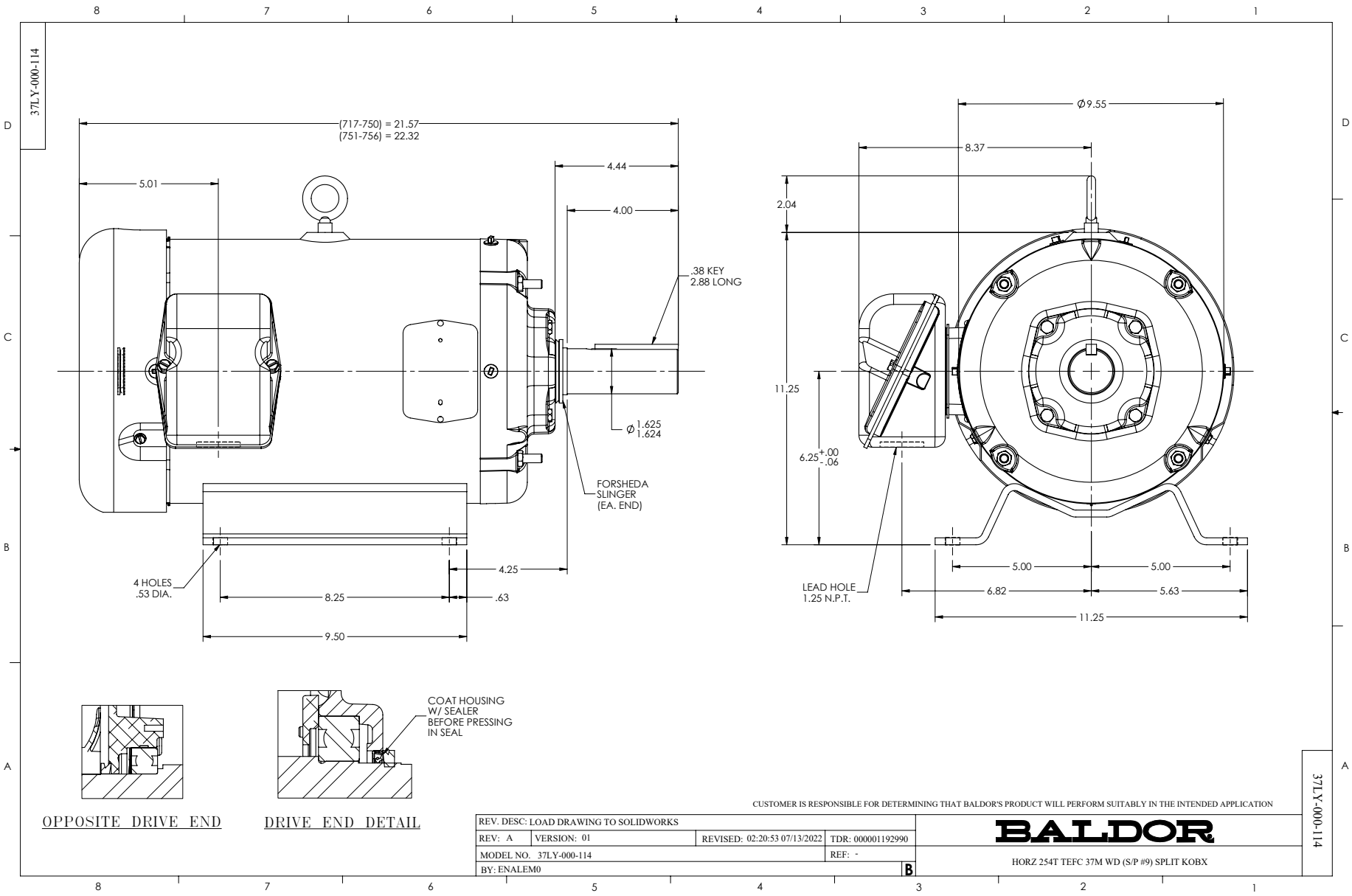
WINDING # 37WGL723

15 HP 3 PH 60 HZ 3450 RPM 460 V 3756M

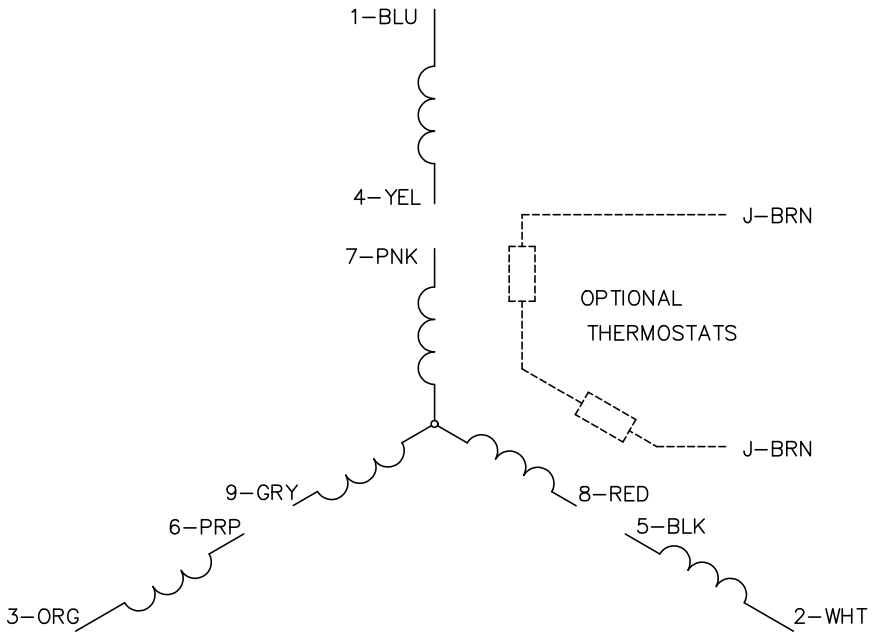
Typical performance - not guaranteed values.

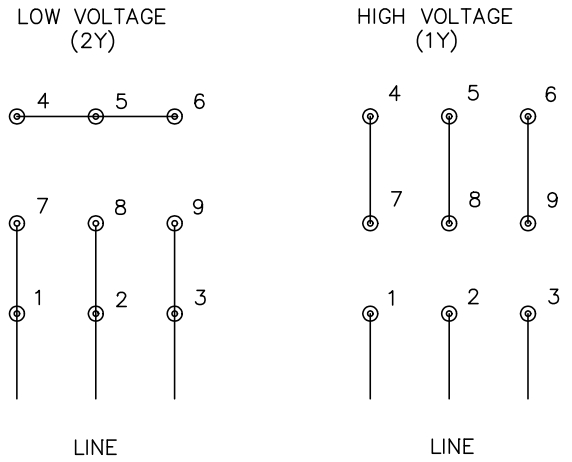
TORQUES(LB-FT): PO=67.78 PU=34.29 LR=39.15 LRA=114




37LY-000-114
(717-750) = 21.57
(751-756) = 22.32
5.01
4.44
4.00
.38 KEY
2.88 LONG
Ø 1.625
1.624
FORSHEDA
SLINGER
(EA. END)
4 HOLES
.53 DIA.
8.25
4.25
.63
9.50
Ø9.55
8.37
2.04
11.25
6.25 +.00 -.06
LEAD HOLE
1.25 N.P.T.
5.00
5.00
6.82
5.63
11.25
COAT HOUSING
W/ SEALER
BEFORE PRESSING
IN SEAL
OPPOSITE DRIVE END
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 02:20:53 07/13/2022
TDR: 000001192990
MODEL NO. 37LY-000-114
REF: -
BY: ENALEM0
B
BALDOR
HORZ 254T TEFC 37M WD (S/P #9) SPLIT KOBX
37LY-000-114

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