ABB BALDOR RELIANCE

Customer information packet

EWDM3704T

3HP, 1160RPM, 3PH, 60HZ, 213T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213T
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	4.600 A @ 460.0 V
	9.200 A @ 230.0 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	4.6 a

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYE572
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	11-25-2019

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.04 IN
Power Factor	68
Product Family	Wash Down
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1160 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.	EWDM3704T								
SPEC.	37-0000-0166								
HP	3								
VOLTS	230/460								
AMP	9.2/4.6								
RPM	1160								
FRAME	213T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	L	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	89.5	**PF**	68						
RATING	40C AMB-CONT								
CC	010A								
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							
BLANK	20:1 CT, 20:1 VT,1.00SF								

Parts List

Part number	Description	Quantity
SA376624	SA 37-0000-0166	1.000 ea
RA366541	RA 37-0000-0166	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	2.000 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
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3104S17	THRUBOLT 13.250LG SS	4.000 ea
XY3118S12	5/16-18 HEX NUT, STAINLESS STEEL	4.000 ea
37EP3101A94MW	FRONT TEFC L&M 206 BRG W/O GRSR (WHITE)	1.000 ea
HA1005A02	SLINGER, OD 2.00, ID 1.14, 206 BRG,	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
37EP3100A20MW	FRONT ENDPLATE, MACHINED W/WHITE EPOXY	1.000 ea
HW4600B31SP	V-RING SLINGER 1.438 X 1.758 X .24 VITON	1.000 ea
HW4600H13	SEAL 1.375 X 2.125 X 0.313 SINGLE LIP DB	2.000 ea
HA5027A01	HA4066A01 T-DRAIN X2 BAGGED	1.000 ea
HW4032A01	BLACK DRAIN PLUG FOR WASH DOWN MOTORS	3.000 ea
37CB3005A04W	CASTING W/.75 NPT@6(MACH WHITE)	1.000 ea
37GS1025	37 MOLDED GASKET W/LIP, LEAD SEAL	1.000 ea
51XW2520A10	.25-20 X .62, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37CB4512	CONDUIT BOX LID FOR WASHDOWN 37 FRAME	1.000 ea
37GS1008A02	37 GS FOR CB LID - WHITE NEOPRENE	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 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
HW2502F22	KEY, 5/16 SQ X 2.500 SS AUTOMATED	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	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 # 53388
Typical performance - not guaranteed values

Winding: 37WGS519-R032	**Type:** 3738M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	13.4 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			9.2/4.6	**Breakdown Torque**	50.4 LB-FT
R.P.M.			1160	**Pull-up Torque**	31.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	33.9 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	34 A
Service Factor (S.F.)			1.15	**No-load Current**	2.56 A
NEMA Nom. Eff.	89.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	2.67 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
S.F. Amps				**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT2

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	50	62	69	73	75	70
Efficiency	82.1	88.6	89.5	89.8	89.1	87.6	89.1
Speed	1193	1186	1178	1170	1160	1149	1166
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.14

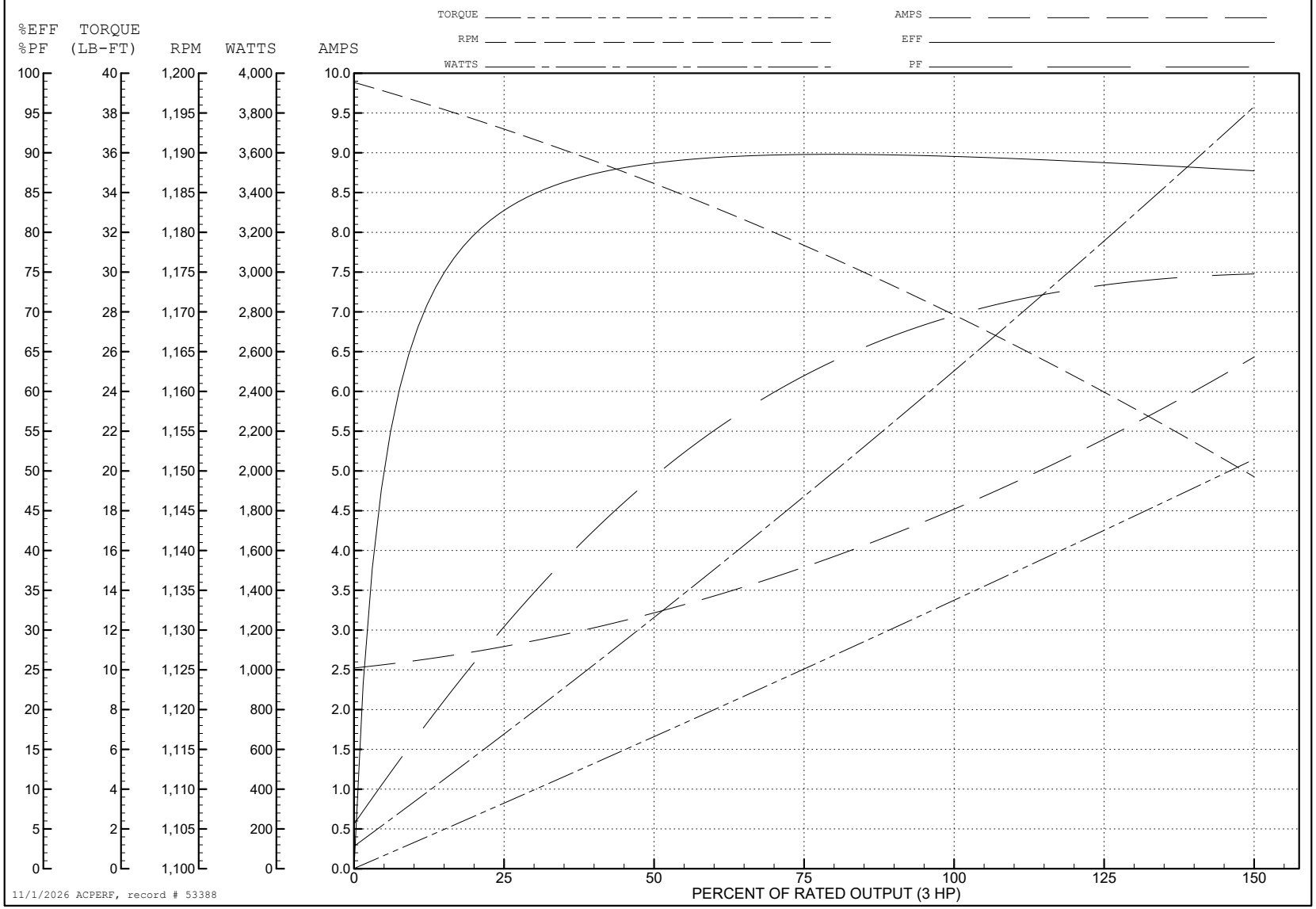
ABB Motors and Mechanical Inc.

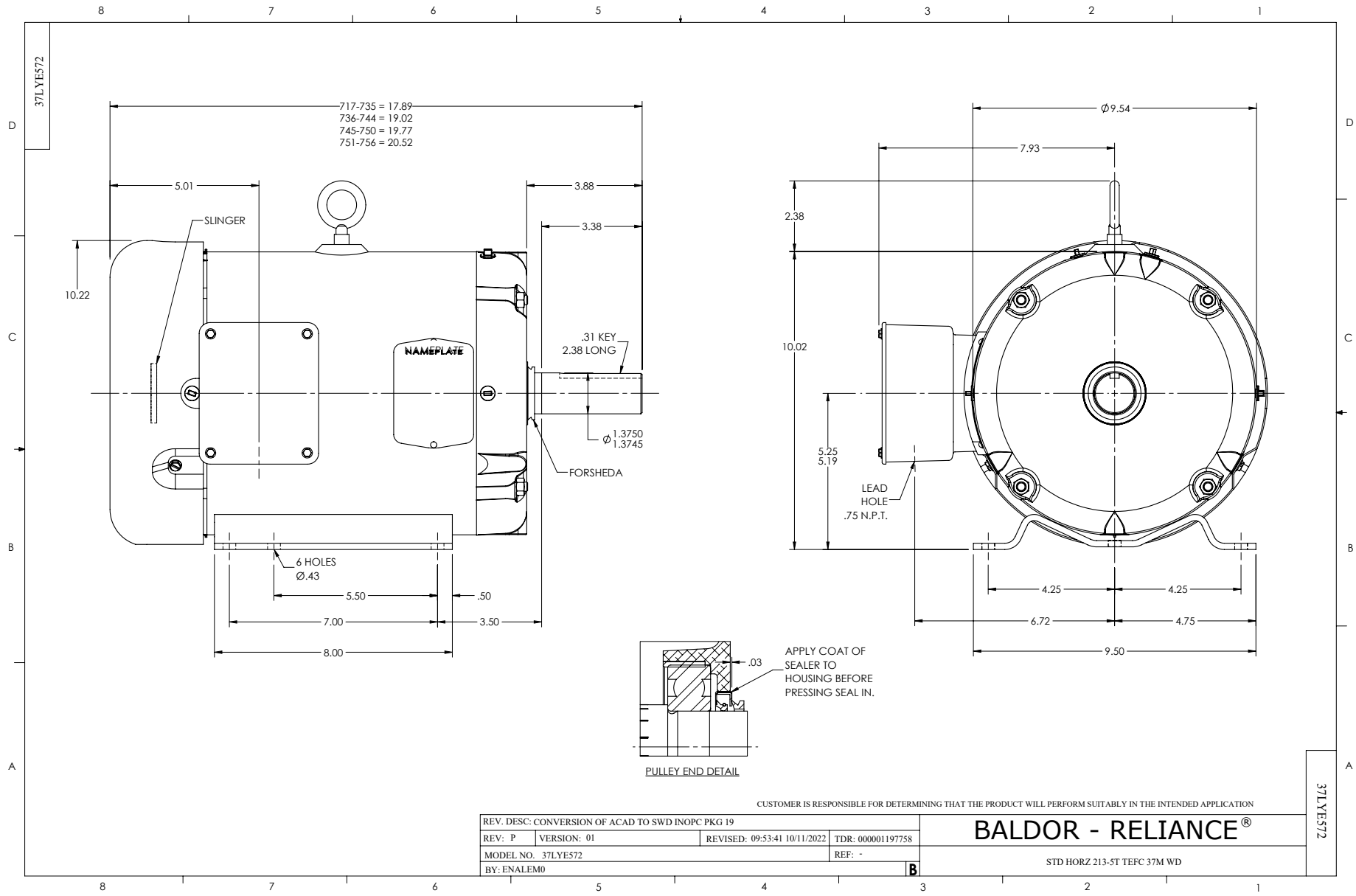
WINDING # 37WGS519

3 HP 3 PH 60 HZ 1160 RPM 460 V 3738M

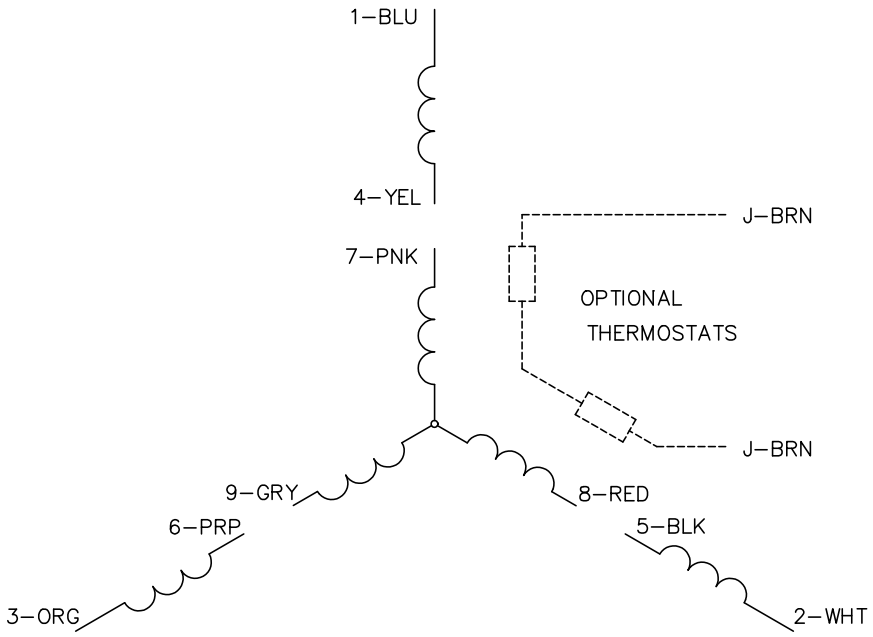
Typical performance - not guaranteed values.

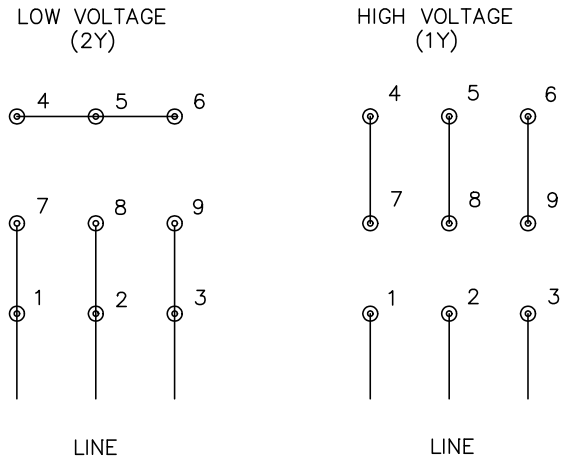
TORQUES(LB-FT): PO=50.4 PU=31.8 LR=33.9 LRA=34




37LYE572
717-735 = 17.89
736-744 = 19.02
745-750 = 19.77
751-756 = 20.52
5.01
3.88
3.38
SLINGER
10.22
NAMEPLATE
.31 KEY
2.38 LONG
Ø 1.3750
1.3745
FORSHEDA
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
Ø9.54
7.93
2.38
10.02
5.25
5.19
LEAD
HOLE
.75 N.P.T.
4.25
4.25
6.72
4.75
9.50
.03
APPLY COAT OF
SEALER TO
HOUSING BEFORE
PRESSING SEAL IN.
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: P
VERSION: 01
REVISED: 09:53:41 10/11/2022
TDR: 000001197758
MODEL NO. 37LYE572
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD HORZ 213-5T TEFC 37M WD
37LYE572

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