ABB BALDOR RELIANCE

Customer information packet

FDAOL3504A

.5HP, 1745RPM, 1PH, 60HZ, 56H, 3424LC, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	56H
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	115.0 V @ 60 HZ
Agency Approvals	CSA
	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	4.800 A @ 115.0 V
	2.500 A @ 208.0 V
	2.400 A @ 230.0 V
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Terminal Panel
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.4 a

Part Detail

Revision	G
Type	AC
Mech. spec.	34M951
Base	
Status	PRD/A
Elec. spec.	34WGX444
Layout	34LYM951
Eff. date	11-27-2024
CD Diagram	CD0320
Poles	04
Leads	7#18
Proprietary	False
Created date	03-13-2017

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3424LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.08 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.20
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1745 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB

Winding Thermal 2	None

Nameplate

NP1280L											
CAT.NO.	FDAOL3504A										
SPEC.	34M951X444G1										
HP	.5										
VOLTS	115/230										
AMP	4.8/2.4										
RPM	1745										
FRAME	56H	**HZ**	60	**PH**	1						
SER.F.	1.20	**CODE**	K	**DES**	-	**CL**	F				
NEMA-NOM-EFF	78.5	**PF**	89								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	TEAO	**SN**									
	SFA 5.4/2.7										

Parts List

Part number	Description	Quantity
SA335613	SA 34M951X444G1	1.000 ea
RA323830	RA 34M951X444G1	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
EC1270A02SP	ELEC CAP, 270-324 MFD, 125V, 1.48D X 3.	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.010 qt
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
RM1001A01	GROMMET "MIDSTATES"	1.000 ea
34EP3204C01	SPL. FR. ENDPLATE 34L ENCL.	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
34GS5003	FOAM SLEEVE, ID = 2 1/16" X 3 3/8"	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
34EP3102A99	PU ENDPLATE, MACH FOR SEAL	1.000 ea
HW4600A54	SEAL 0.668 X 1.064 X 0.250 DOUBLE SHIELD	1.000 ea
HW4600B39SP	V-RING SLINGER 0.550 X 0.790 X .18 VITON	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34CB4501SP	TERMINAL BOX LID, STAMPED X (PLATED)	1.000 ea
34GS1005	GASKET, TERM PLATE LID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025C02	WILKOFAST SG, 787.105, TAN	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
SP5075A07	34 TERM PANEL SWITCH W/BLK O & E LEADS	1.000 ea
HA3100A45	THRUBOLT 10-32 X 8.875	4.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 ea
NP1280L	ALUM FARM DUTY UL CC THERMAL	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
34GS5003	FOAM SLEEVE, ID = 2 1/16" X 3 3/8"	1.000 ea

AC Induction Motor Performance Data
Record # 63044
Typical performance - not guaranteed values

Winding: 34WGX444-R008	**Type:** 3424LC	**Enclosure:** TEAO

Nameplate Data				**115 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	1.5 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			4.8/2.4	**Breakdown Torque**	3.6 LB-FT
R.P.M.			1745	**Pull-up Torque**	3.1 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	4.2 LB-FT
NEMA Design Code	-	**KVA Code**	K	**Starting Current**	36.2 A
Service Factor (S.F.)			1.2	**No-load Current**	2 A
NEMA Nom. Eff.	78.5	**Power Factor**	89	**Line-line Res. @ 25ºC**	1.18 Ω A Ph 4.17 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	37°C
S.F. Amps			5.4/2.7	**Temp. Rise @ S.F. Load**	44°C
				Locked-rotor Power Factor	87.7
				Rotor inertia	0.057 LB-FT2

Load Characteristics 115 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	73	81	89	89	91	92	91
Efficiency	57	72.4	76.9	78.5	78.1	75.8	78.2
Speed	1786	1773	1758	1742	1722	1699	1726
Line amperes	2	2.8	3.6	4.6	5.6	6.8	5.4

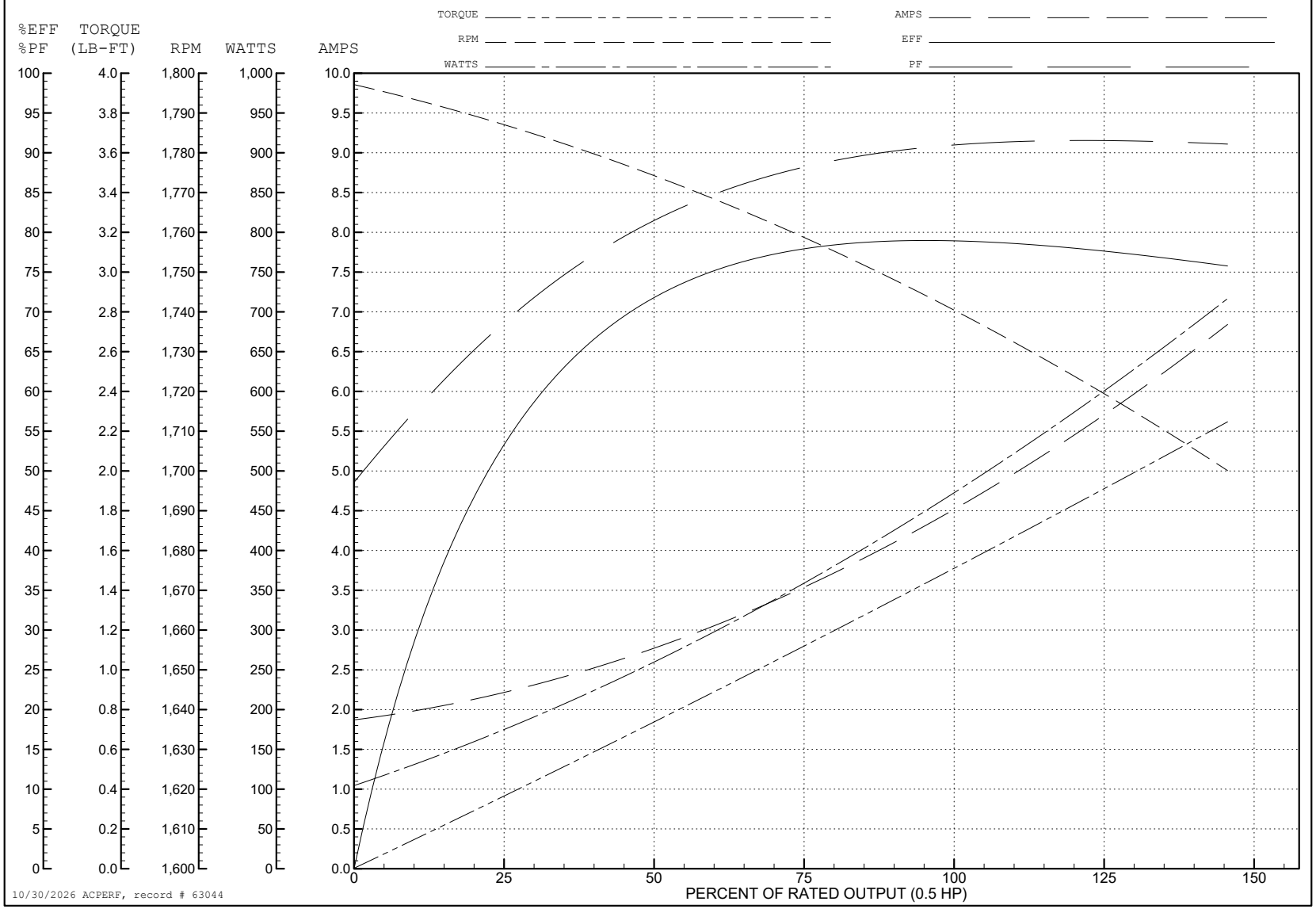
ABB Motors and Mechanical Inc.

WINDING # 34WGX444

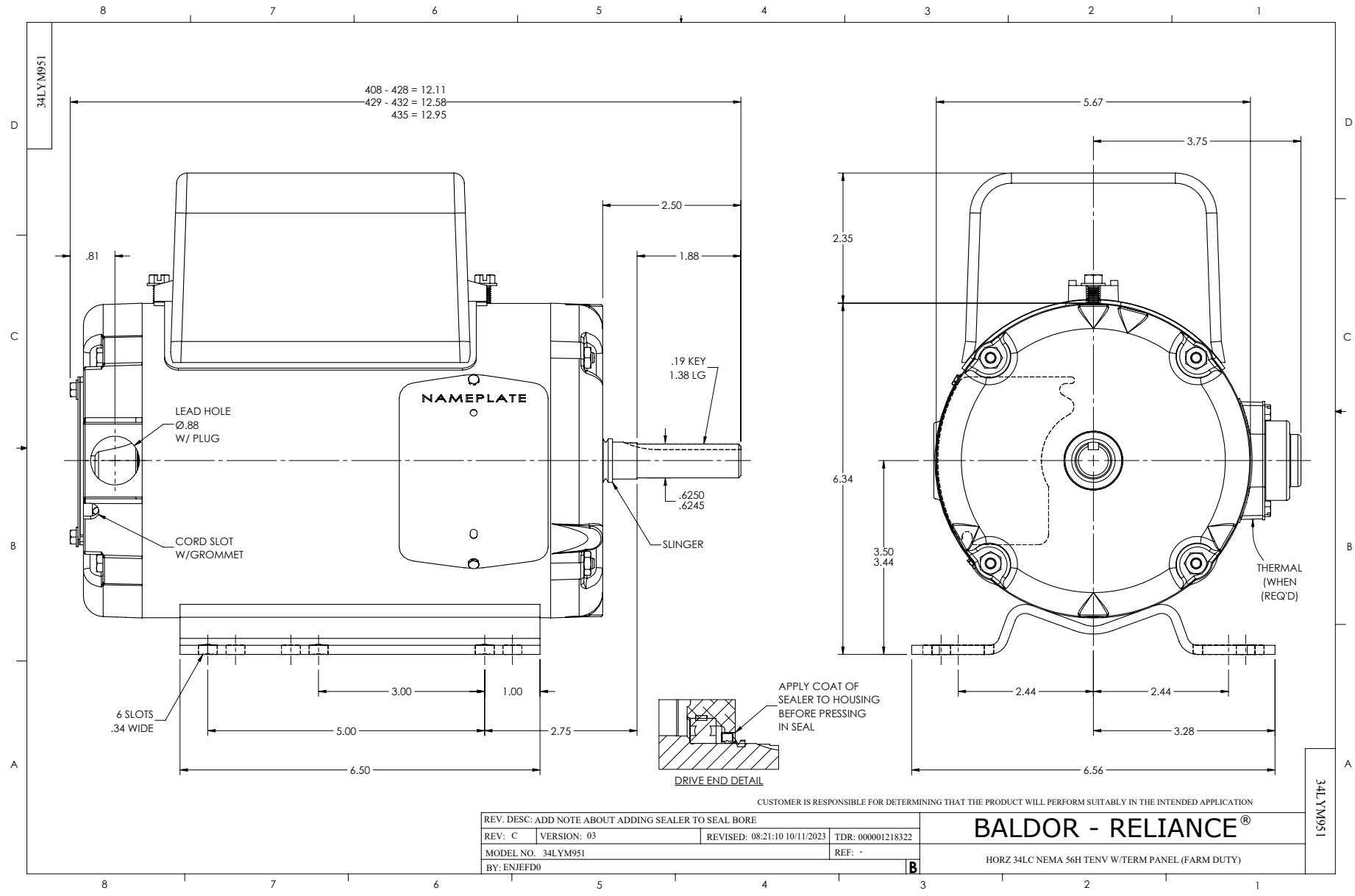
0.5 HP 1 PH 60 HZ 1745 RPM 115 V 3424LC

Typical performance - not guaranteed values.

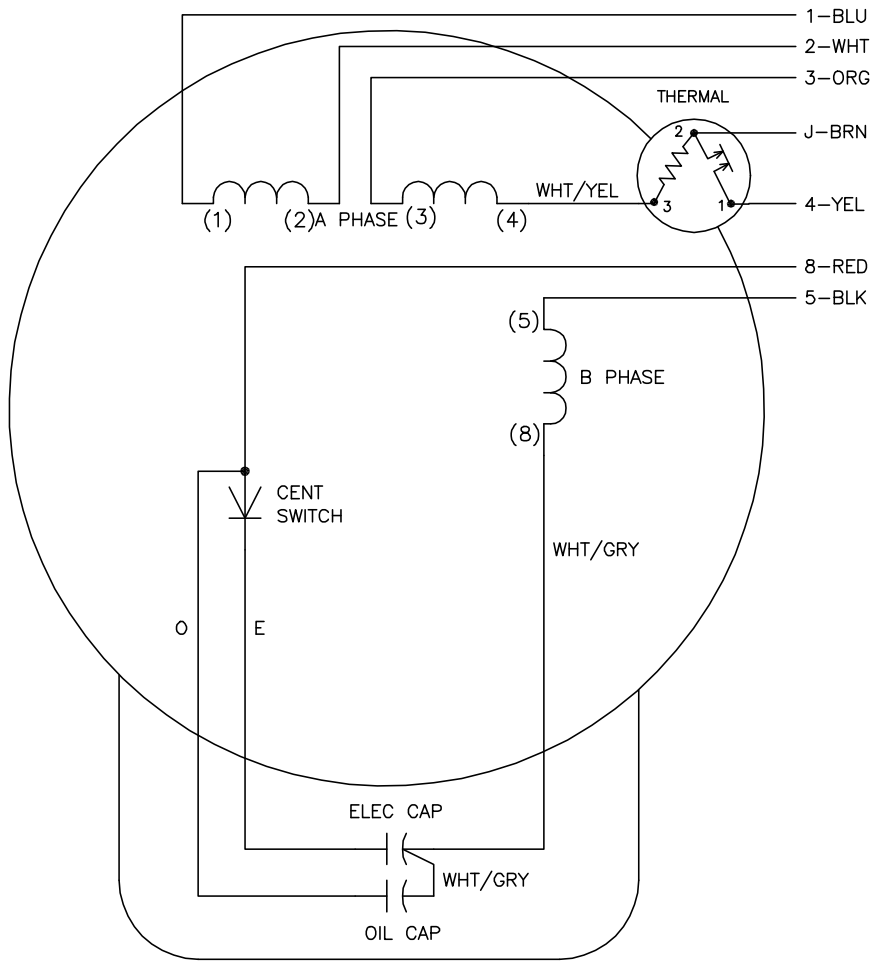
TORQUES(LB-FT): PO=3.6 PU=3.1 LR=4.2 LRA=36.2



10/30/2026 ACPERF, record # 63044


34LYM951
408 - 428 = 12.11
429 - 432 = 12.58
435 = 12.95
.81
2.50
1.88
.19 KEY
1.38 LG
NAMEPLATE
LEAD HOLE
Ø.88
W/ PLUG
CORD SLOT
W/GROMMET
.6250
.6245
SLINGER
6 SLOTS
.34 WIDE
3.00
1.00
5.00
2.75
6.50
APPLY COAT OF
SEALER TO HOUSING
BEFORE PRESSING
IN SEAL
DRIVE END DETAIL
5.67
3.75
2.35
6.34
3.50
3.44
THERMAL
(WHEN
(REQ'D)
2.44
2.44
3.28
6.56
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD NOTE ABOUT ADDING SEALER TO SEAL BORE
REV: C
VERSION: 03
REVISED: 08:21:10 10/11/2023
TDR: 000001218322
MODEL NO. 34LYM951
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
HORZ 34LC NEMA 56H TENV W/TERM PANEL (FARM DUTY)
34LYM951

CD0320



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4	2,3,5	J
HIGH OPP	1,5	4	2,3,8	J
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,J,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0320

REV. DESC: ADD INTERNAL CONNECTION TO HELP MANUFACTURING		
REV. LTR: G	VERSION: 01	TDR: 000000941594
FILE: \AAA\00007\422	REVISED: 02:21:00 08/28/2015	BY: ENALEMO
MTL: –		

BALDOR

TYPE LC, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD

SH 1 of 1