ABB BALDOR RELIANCE

Customer information packet

FDAOL3507A

.75HP, 1725RPM, 1PH, 60HZ, 56H, 3428LC, TEAO, F
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	.750 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ
	230.0 V @ 60 HZ
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	4.100 A @ 230.0 V
	5.400 A @ 208.0 V
	8.200 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
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	4.1 a
Insulation Class	F

Part Detail

Revision	E
Type	AC
Mech. spec.	34M951
Base	
Status	PRD/A
Elec. spec.	34WGY166
Layout	34LYM951
Eff. date	07-25-2024
CD Diagram	CD0320
Poles	04
Leads	6#18,1#14 #4TH
Proprietary	False
Created date	08-11-2017

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3428LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.08 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	1725 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.	FDAOL3507A								
SPEC.	34M951Y166G1								
HP	.75								
VOLTS	115/230								
AMP	8.2/4.1								
RPM	1725								
FRAME	56H	**HZ**	60		**PH**	1			
SER.F.	1.20	**CODE**	L	**DES**	N	**CL**	F		
NEMA-NOM-EFF	74	**PF**	80						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	TEAO	**SN**							
	SFA 9.4/4.7								

Parts List

Part number	Description	Quantity
SA343117	SA 34M951Y166G1	1.000 ea
RA331561	RA 34M951Y166G1	1.000 ea
OC3020F12SP	CAPACITORS 20 MFD 370 VAC	1.000 ea
EC1460A05SP	ELEC CAP, 460-552 MFD, 125V, 2.06D 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
HA3100A45	THRUBOLT 10-32 X 8.875	4.000 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

LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1280L	ALUM FARM DUTY UL CC THERMAL	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

AC Induction Motor Performance Data
Record # 66306
Typical performance - not guaranteed values

Winding: 34WGY166-R005	**Type:** 3428LC	**Enclosure:** TEAO

Nameplate Data			
Rated Output (HP)			.75
Volts			115/230
Full Load Amps			8.2/4.1
R.P.M.			1725
Hz	60	**Phase**	1
NEMA Design Code	N	**KVA Code**	L
Service Factor (S.F.)			1.2
NEMA Nom. Eff.	74	**Power Factor**	80
Rating - Duty			40C AMB-CONT
S.F. Amps			9.4/4.7

115 V, 60 Hz: Low Voltage Connection	
Full Load Torque	2.25 LB-FT
Start Configuration	direct on line
Breakdown Torque	5.7 LB-FT
Pull-up Torque	4.7 LB-FT
Locked-rotor Torque	7.5 LB-FT
Starting Current	62 A
No-load Current	5.4 A
Line-line Res. @ 25ºC	0.732 Ω A Ph 1.8 Ω B Ph
Temp. Rise @ Rated Load	62°C
Temp. Rise @ S.F. Load	73°C
Locked-rotor Power Factor	94.5
Rotor inertia	0.0665 LB-FT2

Load Characteristics 115 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	61	72	80	65	85	68
Efficiency	53.6	67.9	73.1	73.9	93.1	71.5	89.3
Speed	1784	1770	1755	1739	1717	1694	1721
Line amperes	5.4	6	7	8.2	9.8	11.6	9.48

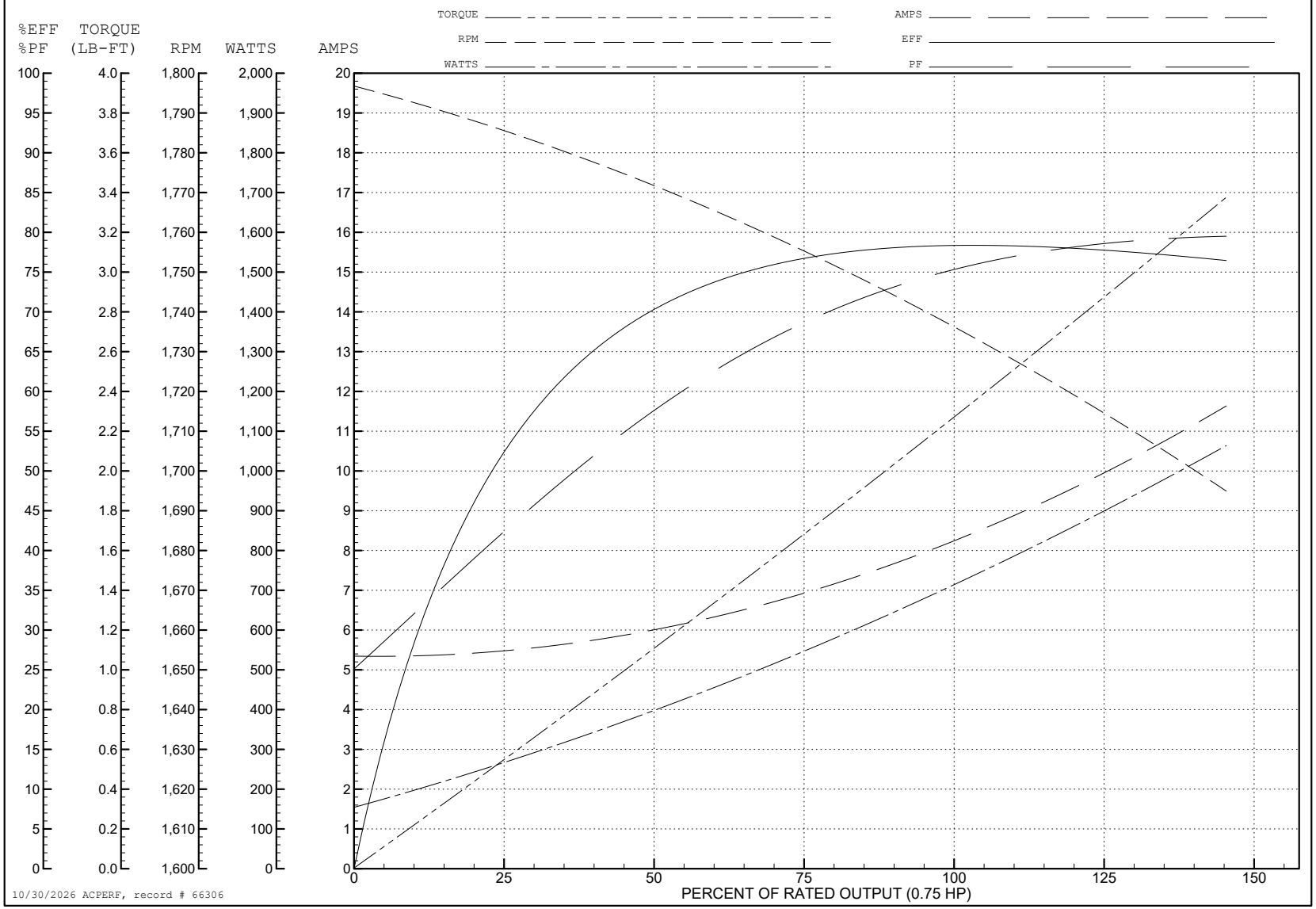
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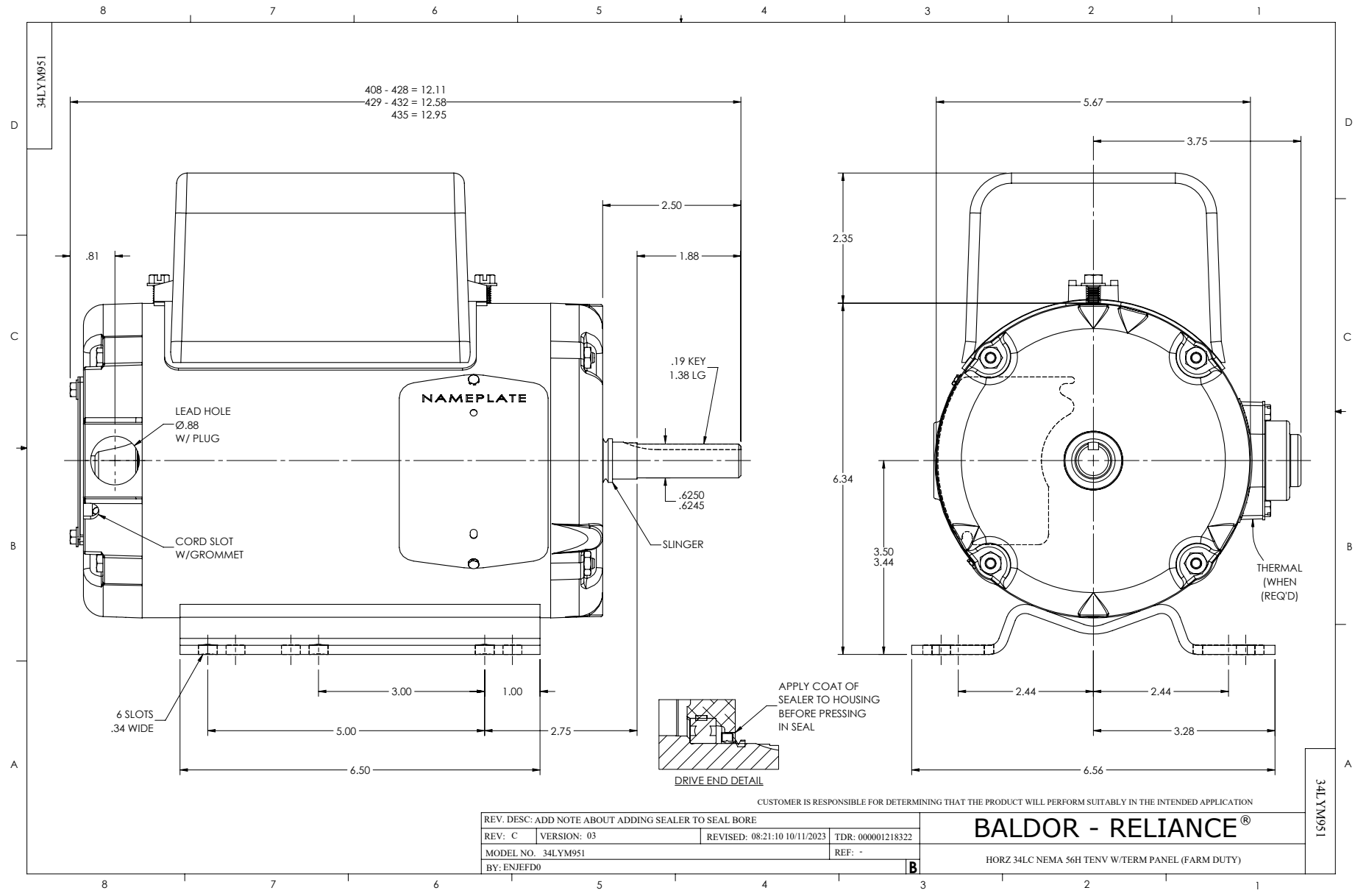
WINDING # 34WGY166

Typical performance - not guaranteed values.

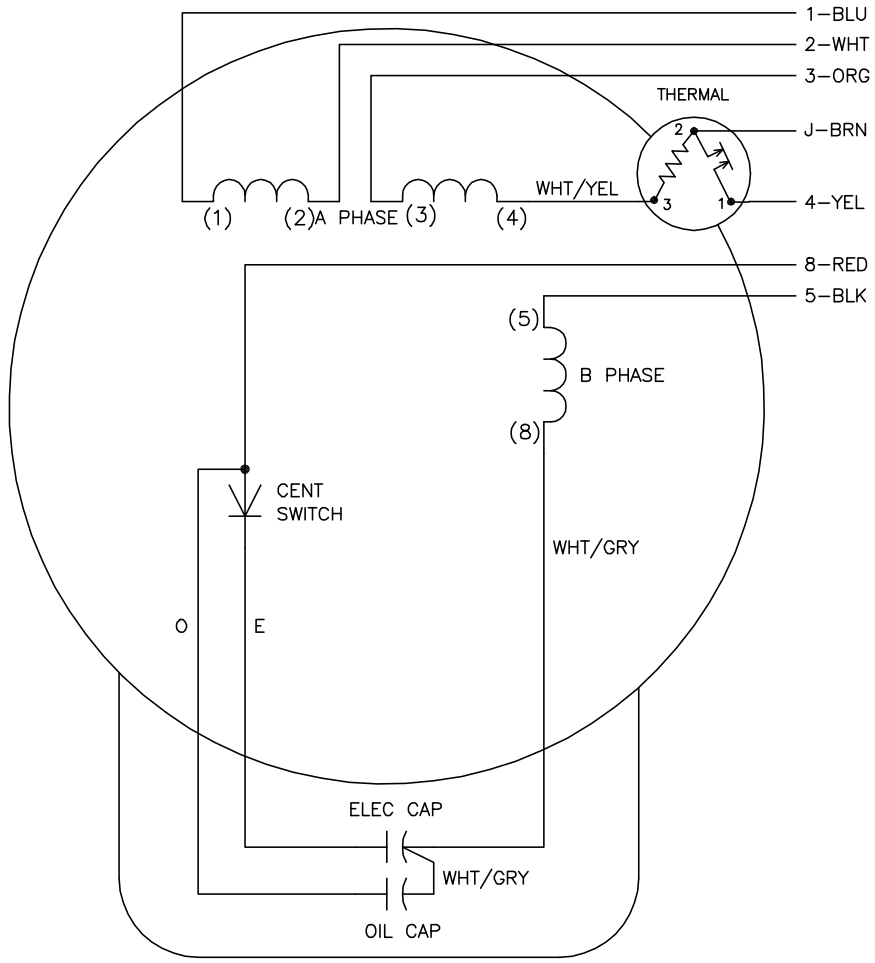
0.75 HP 1 PH 60 HZ 1725 RPM 115 V 3428LC

TORQUES(LB-FT): PO=5.7 PU=4.7 LR=7.5 LRA=62




34LYM951
408 - 428 = 12.11
429 - 432 = 12.58
435 = 12.95
2.50
1.88
.81
.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