ABB BALDOR RELIANCE

Customer information packet

34N656Y166G1

.55HP, 1725RPM, 1PH, 60HZ, D71CZ, 3428LC, TEFC
Brahma Engineering LLC.
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	D71CZ
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	120.0 V @ 60 HZ
	220.0 V @ 60 HZ
Agency Approvals	CURUS
	C UR US
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 @ 220.0 V
	8.300 A @ 120.0 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
Frame Prefix	D
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a

Part Detail

Revision	B
Type	AC
Mech. spec.	34N656
Base	
Status	PRD/A
Elec. spec.	34WGY166
Layout	34LYN656
Eff. date	03-23-2026
CD Diagram	CD0320
Poles	04
Leads	6#18,1#14 #4TH
Proprietary	False
Created date	03-14-2025

Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Cord And Plug
Motor Standards	IEC
Motor Type	3428LC
Mounting Arrangement	F2
Number of Poles	4
Overall Length	12.07 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Key Only (When Non-STD)
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.551 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected OPP STD
Shaft Slinger Indicator	No 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

NP4407L							
CAT.NO.	.75HP						
SPEC.	34N656Y166G1						
IEC FRAME	D71CZ	**KW**	.55 TE				
VOLTS	120/220						
AMPS	8.3/4.1						
R.P.M.	1725		**I.P.**	44			
HZ.	60	**PH.**	1	**CLASS**	F		
SER.F.	1.15	**DES.**	N	**CODE**	L		
NOM.EFF.	74	**P.F.**	80				
RATING	40C AMB-CONT						
CC		**USABLE AT 208V**			N/A		
DE	6203	**ODE**	6203				
SER. #							

Parts List

Part number	Description	Quantity
SA435841	SA 34N656Y166G1	1.000 ea
RA428158	RA 34N656Y166G1	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
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A138P	CB W/.66 DIA @ 12 & .50 DIA @ 6	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
WD4102A01	SR-6L-1 HEYCO STRN RELIEF OR 23MPO6L10 M	1.000 ea
HA6006A02	G7-96 SPECIAL GUARD-PURCH	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
SP9067	SW,3PDT TAB	1.000 ea
HW1003A50	LOCKWASHER,1/2",EXT.TOOTHZINC PLATED	1.000 ea
HA3205A50	U550-N SWITCH NUT/CARLING	1.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	3.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP1503A07	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea

HW2504D04	KEY, 5 MM X .625 LONG	1.000 ea
HA7000A10	KEY RETAINER 0.563 DIA SHAFTS	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
HW4600A54	SEAL 0.668 X 1.064 X 0.250 DOUBLE SHIELD	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LD5018A03	CORD & PLUG SET 16/3 SJOOW 90C 300V 2' 6	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	1.000 ea
WD4006B01	TYPE O/B+ 3M SCOTCHLOK WIRE CONNECTOR	5.000 ea
SP5051B57	MODEL 34 TYPE LC STATIONARY SWITCH	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
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
LC0269	1PH,DV,REV,THERMAL,7 LD,L.AMP THRU HTR H	1.000 ea
NP4407L	ALUM IEC C-UR-US CC THERMALLY PROTECTED	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 ea

AC Induction Motor Performance Data
Record # 47758
Typical performance - not guaranteed values

Winding: 34WGY166-R004	**Type:** 3428LC	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			.75
Volts			120/220
Full Load Amps			8.3/4.1
R.P.M.			1725
Hz	60	**Phase**	1
NEMA Design Code	N	**KVA Code**	L
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	74	**Power Factor**	80
Rating - Duty			40C AMB-CONT
S.F. Amps			

120 V, 60 Hz: Low Voltage Connection	
Full Load Torque	2.24 LB-FT
Start Configuration	direct on line
Breakdown Torque	6.22 LB-FT
Pull-up Torque	5.12 LB-FT
Locked-rotor Torque	8.17 LB-FT
Starting Current	64.8 A
No-load Current	5.94 A
Line-line Res. @ 25ºC	0.732 Ω A Ph 1.8 Ω B Ph
Temp. Rise @ Rated Load	66°C
Temp. Rise @ S.F. Load	73°C
Locked-rotor Power Factor	94.5
Rotor inertia	0.0665 LB-FT2

Load Characteristics 120 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	57	68	77	63	83	69
Efficiency	51	65.3	71.7	72.8	92.6	71.5	84.7
Speed	1785	1772	1758	1743	1723	1702	1731
Line amperes	5.86	6.35	7.23	8.29	9.74	11.4	9.16

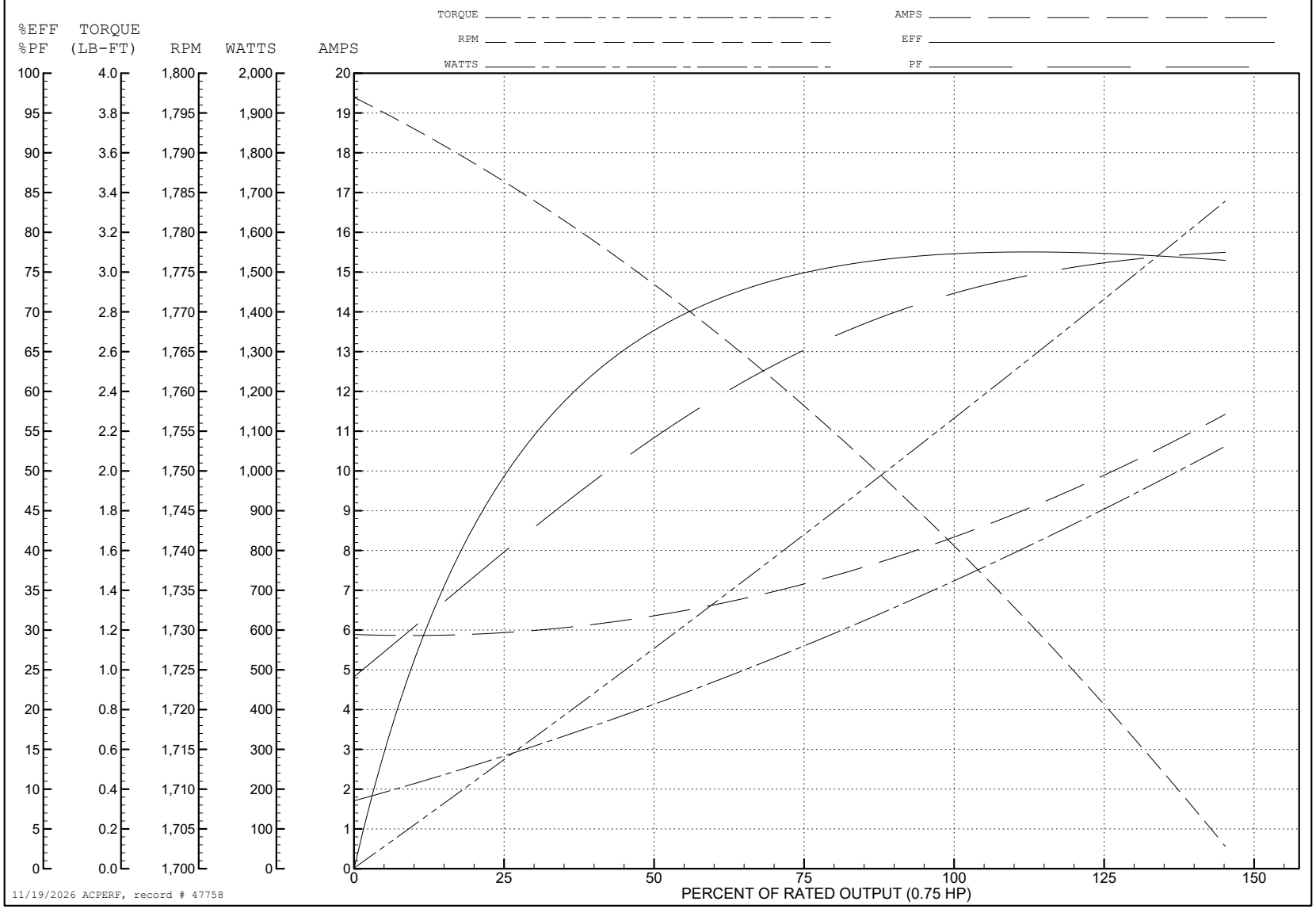
ABB Motors and Mechanical Inc.

WINDING # 34WGY166

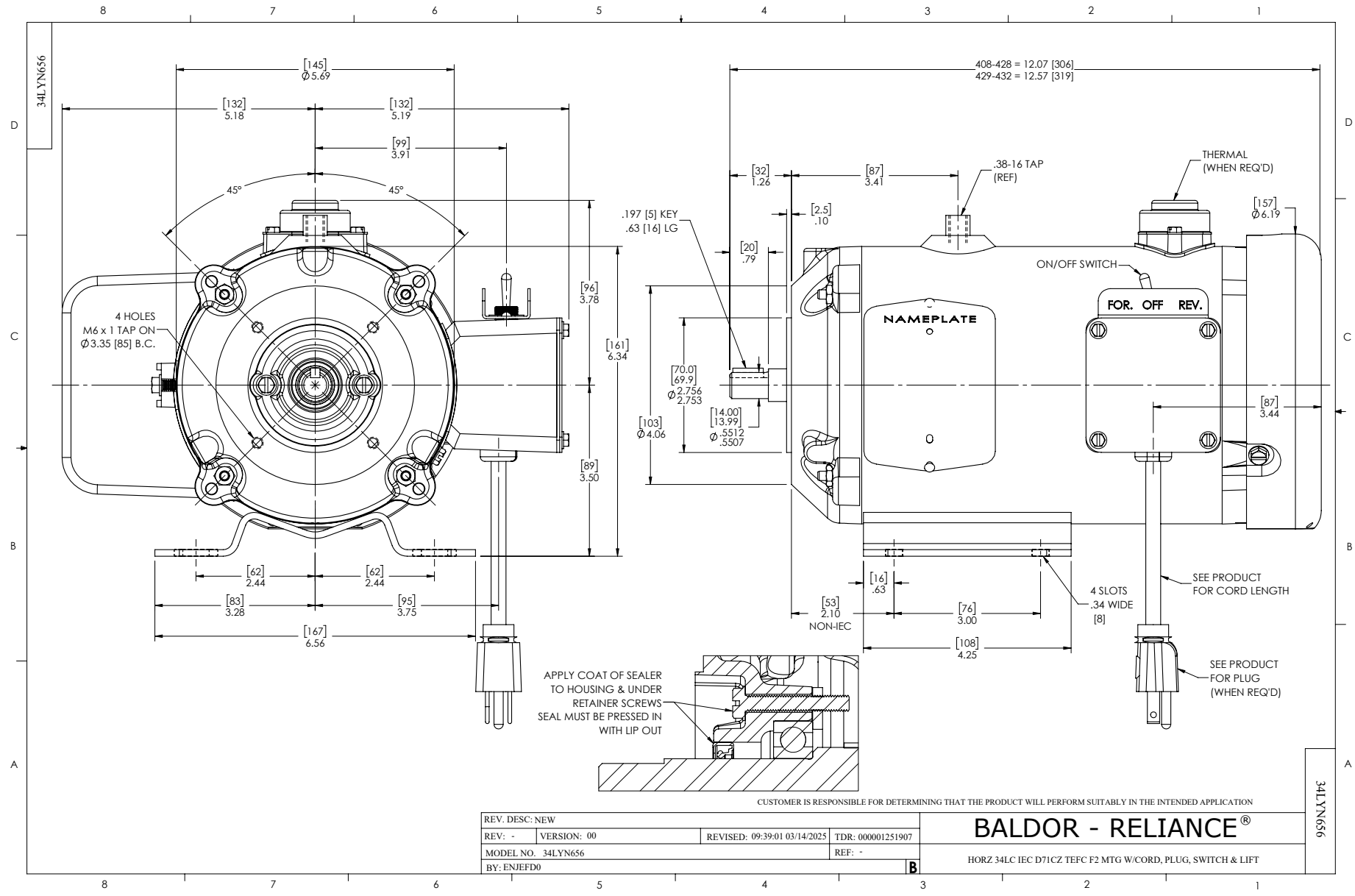
0.75 HP 1 PH 60 HZ 1725 RPM 120 V 3428LC

Typical performance - not guaranteed values.

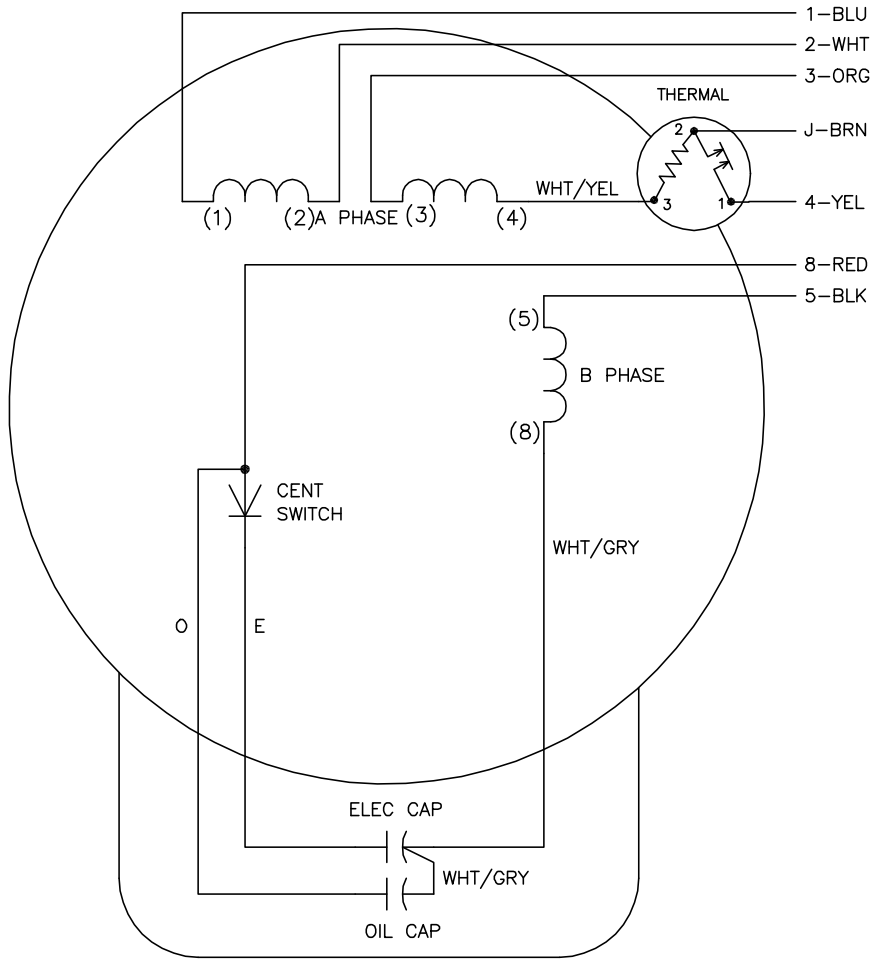
TORQUES(LB-FT): PO=6.22 PU=5.12 LR=8.17 LRA=64.8



11/19/2026 ACPERF, record # 47758


34LYN656
[145] Ø5.69
[132] 5.18
[132] 5.19
[99] 3.91
45°
45°
4 HOLES
M6 x 1 TAP ON
Ø3.35 [85] B.C.
[96] 3.78
[161] 6.34
[89] 3.50
[62] 2.44
[62] 2.44
[83] 3.28
[95] 3.75
[167] 6.56
408-428 = 12.07 [306]
429-432 = 12.57 [319]
[32] 1.26
[87] 3.41
.38-16 TAP (REF)
THERMAL (WHEN REQ'D)
[157] Ø6.19
.197 [5] KEY
.63 [16] LG
[2.5] .10
[20] .79
ON/OFF SWITCH
FOR. OFF REV.
NAMEPLATE
[70.0] [69.9] Ø2.756 2.753
[14.00] [13.99] Ø.5512 .5507
[103] Ø4.06
[87] 3.44
[16] .63
[53] 2.10 NON-IEC
[76] 3.00
[108] 4.25
4 SLOTS .34 WIDE [8]
SEE PRODUCT FOR CORD LENGTH
SEE PRODUCT FOR PLUG (WHEN REQ'D)
APPLY COAT OF SEALER TO HOUSING & UNDER RETAINER SCREWS SEAL MUST BE PRESSED IN WITH LIP OUT
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 09:39:01 03/14/2025 TDR: 000001251907
MODEL NO. 34LYN656 REF: -
BY: ENJEFD0 B
BALDOR - RELIANCE®
HORZ 34LC IEC D71CZ TEFC F2 MTG W/CORD, PLUG, SWITCH & LIFT
34LYN656

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