ABB BALDOR RELIANCE

Customer information packet

CHC445A

.75HP, 1700RPM, 1PH, 60HZ, 56YZ, 3428C, TEAO, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	56YZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Oil Capacitor Start and 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
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.700 A @ 230.0 V
	7.400 A @ 115.0 V
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	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.7 a
Insulation Class	B

Part Detail

Revision	P
Type	AC
Mech. spec.	34M244
Base	
Status	PRD/A
Elec. spec.	34WGR059
Layout	34LYM244
Eff. date	10-28-2024
CD Diagram	CD0381
Poles	04
Leads	7#18
Proprietary	False
Created date	05-22-2013

Inverter Code	Not Inverter
KVA Code	G
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	None
Motor Standards	NEMA
Motor Type	3428C
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.58 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1700 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	EP

Nameplate

NP1257L								
CAT.NO.	CHC445A							
SPEC.	34M244R059G1							
HP	.75							
VOLTS	115/230							
AMP	7.4/3.7							
RPM	1700							
FRAME	56YZ	**HZ**	60	**PH**	1			
SER.F.	1.15	**CODE**	G	**DES**	-	**CL**	B	
NEMA-NOM-EFF	74	**PF**	92					
RATING	40C AMB-CONT							
CC								
DE	6203	**ODE**	6203					
ENCL	TEAO	**SN**						

Parts List

Part number	Description	Quantity
SA263509	SA 34M244R059G1	1.000 ea
RA250226	RA 34M244R059G1	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
LD5000A52	LEAD ASSY W/INTERNAL STAR RING TERMINALS	1.000 ea
11XT1032A06	10-32 X 3/8 HX WSHR HD SLTD TYPE 23	2.000 ea
34EP3204A01SP	FR ENDPLATE, MACH	1.000 ea
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 ea
RM1001A01	GROMMET "MIDSTATES"	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	3.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3205B01	PU ENDPLATE, MACH	1.000 ea
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
XY0832A02	8-32 HEX NUT	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
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
HW1000A08	#8 SAE FLAT WASHER	8.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	7.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
34BA4003G01	RESILIENT BASE	1.000 ea
SP5076SP	MODEL 34 TERMINAL PANEL WITH QUICK CONNE	1.000 ea
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
33CB4800A02	CAPACITOR COVER, STAMPED	1.000 ea

35GS3001A02	GASKET, CA.COVER, 5.38 LONG .06 CS301	1.000 ea
HA3169A16	THRUBOLT #8-32 THDS X 9.937"LG TDR#1	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0052	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea

AC Induction Motor Performance Data
Record # 42884
Typical performance - not guaranteed values

Winding: 34WGR059-R001	**Type:** 3428C	**Enclosure:** TEAO

Nameplate Data			**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		.75 AIR OVER	**Full Load Torque**	2.33 LB-FT
Volts		115/230	**Start Configuration**	direct on line
Full Load Amps		7.4/3.7	**Breakdown Torque**	5.74 LB-FT
R.P.M.		1700	**Pull-up Torque**	1.56 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	0.947 LB-FT
NEMA Design Code	- **KVA Code**	G	**Starting Current**	18.4 A
Service Factor (S.F.)		1.15	**No-load Current**	1.7 A
NEMA Nom. Eff.	74 **Power Factor**	92	**Line-line Res. @ 25ºC**	4.1997 Ω A Ph 2.0705 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	

Load Characteristics 230 V, 60 Hz, 0.75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	71	83	88	92	93	94	93
Efficiency	47	63.6	71	74.4	75.6	73.7	75.1
Speed	1783.6	1769.8	1755.4	1737.5	1719.4	1695.7	1727
Line amperes	1.93	2.42	2.98	3.66	4.36	5.23	4.08

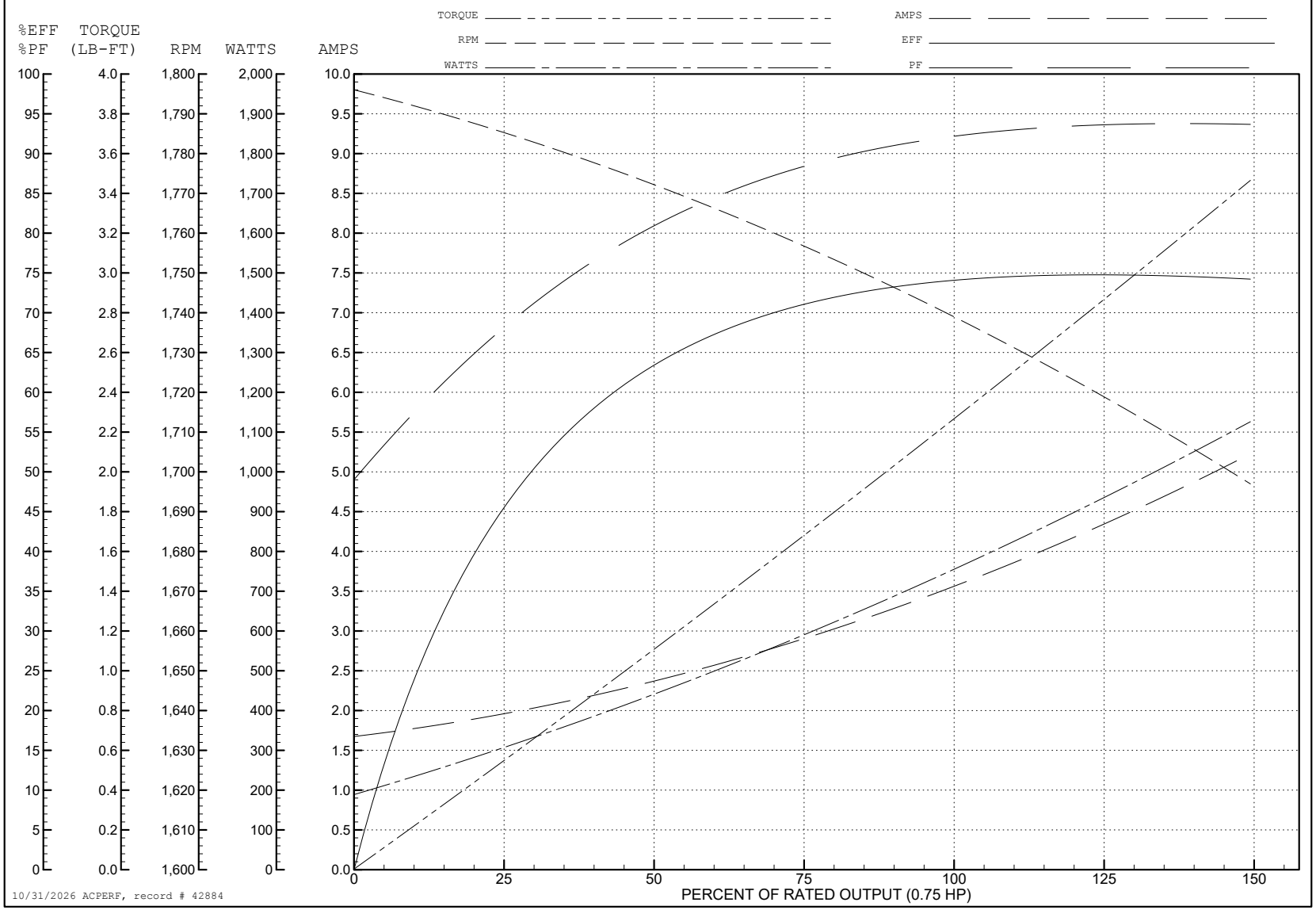
ABB Motors and Mechanical Inc.

WINDING # 34WGR059

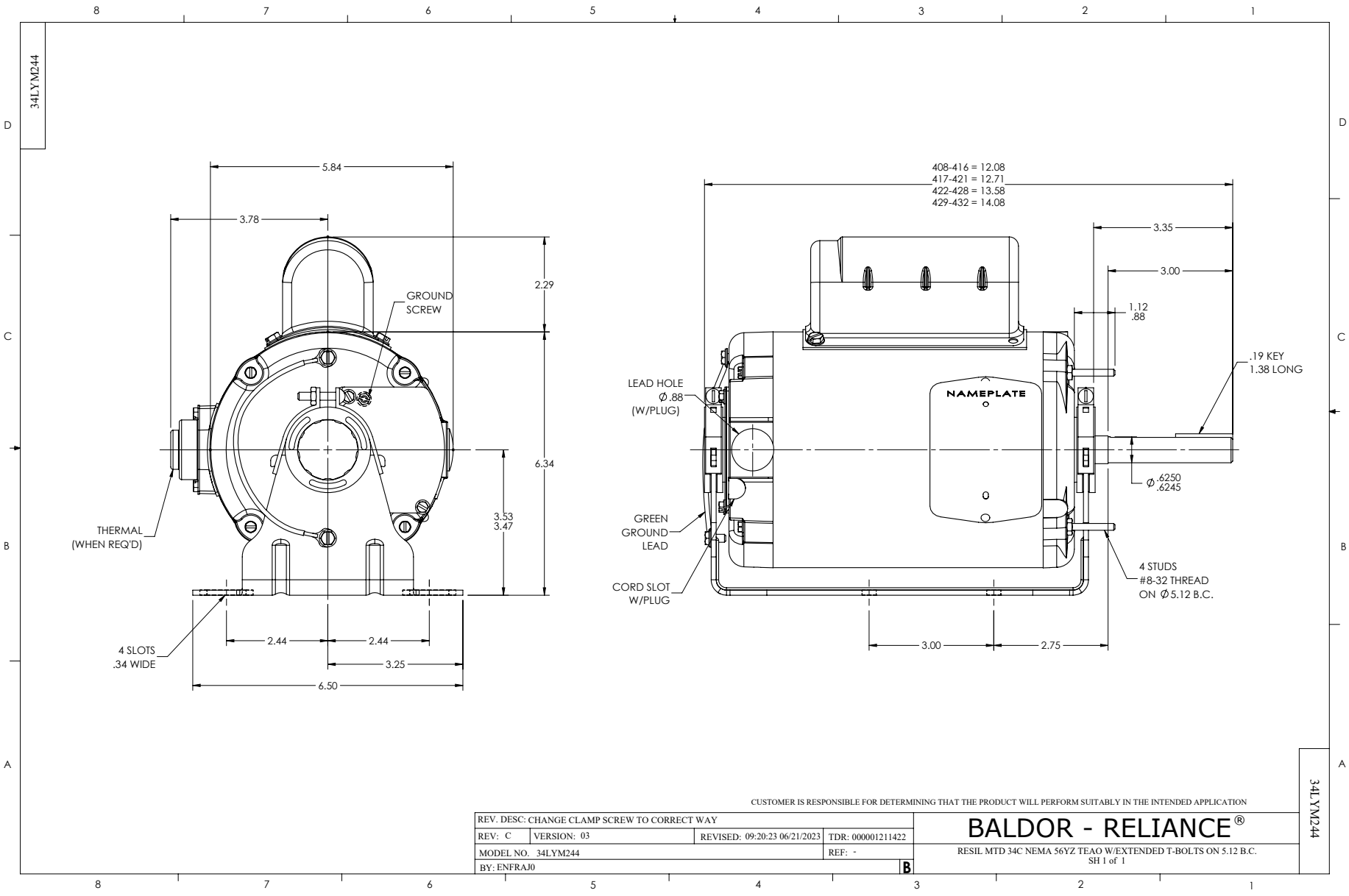
Typical performance - not guaranteed values.

0.75 HP 1 PH 60 HZ 1700 RPM 230 V 3428C

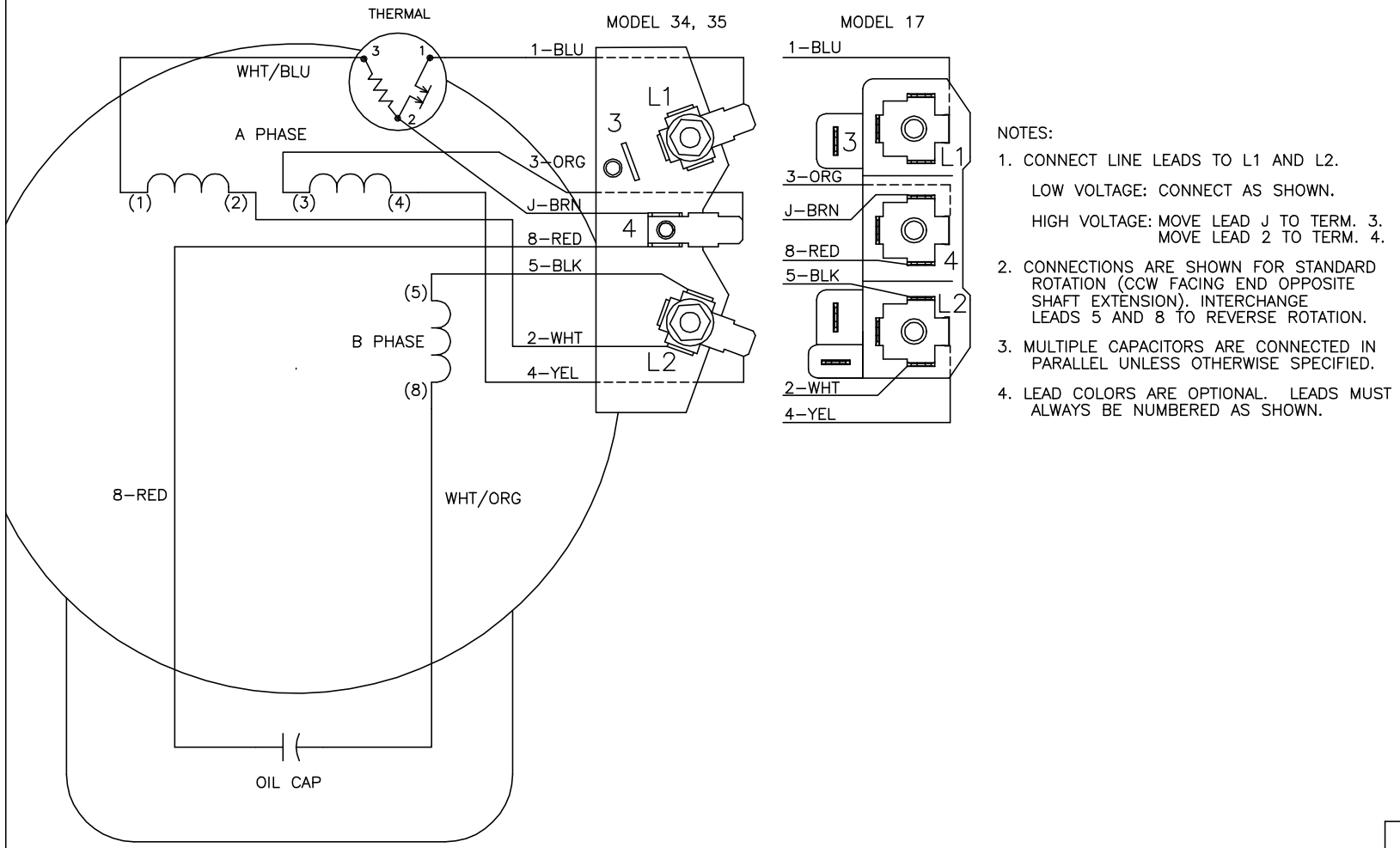
TORQUES(LB-FT): PO=5.74 PU=1.56 LR=0.947 LRA=18.4



10/31/2026 ACPERF, record # 42884


34LYM244
5.84
3.78
2.29
GROUND SCREW
6.34
3.53
3.47
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.44
2.44
3.25
6.50
408-416 = 12.08
417-421 = 12.71
422-428 = 13.58
429-432 = 14.08
3.35
3.00
1.12
.88
.19 KEY
1.38 LONG
LEAD HOLE Ø.88 (W/PLUG)
NAMEPLATE
Ø.6250
.6245
GREEN GROUND LEAD
CORD SLOT W/PLUG
4 STUDS #8-32 THREAD ON Ø5.12 B.C.
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: C
VERSION: 03
REVISED: 09:20:23 06/21/2023
TDR: 000001211422
MODEL NO. 34LYM244
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL MTD 34C NEMA 56YZ TEAO W/EXTENDED T-BOLTS ON 5.12 B.C.
SH 1 of 1
34LYM244

CD0381



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
   LOW VOLTAGE: CONNECT AS SHOWN.
   HIGH VOLTAGE: MOVE LEAD J TO TERM. 3. MOVE LEAD 2 TO TERM. 4.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0381

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000373051	
CD0381	FILE: \AAA\00007\119	REVISED: 08:56:57 09/08/2005	TYPE C, DV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	