ABB BALDOR RELIANCE

Customer information packet

CHC3413A

.25HP, 1700RPM, 1PH, 60HZ, 48Z, 3414C, TEAO, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	48Z
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	.250 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	UR
	CSA
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	2.400 A @ 230.0 V
	4.800 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	54.0 %
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	2.4 a

Part Detail

Revision	AG
Type	AC
Mech. spec.	34K052
Base	
Status	PRD/A
Elec. spec.	34WG5632
Layout	34LYK052
Eff. date	07-25-2024
CD Diagram	CD0381
Poles	04
Leads	7#18
Proprietary	False
Created date	01-01-0001

Insulation Class	B
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	7 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414C
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	62
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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	SB

Nameplate

NP1280L									
CAT.NO.	CHC3413A								
SPEC.	34K52-5632								
HP	.25								
VOLTS	115/230								
AMP	4.8/2.4								
RPM	1700								
FRAME	48Z	**HZ**	60		**PH**	1			
SER.F.	1.00	**CODE**	H	**DES**	N	**CL**	B		
NEMA-NOM-EFF	54	**PF**	62						
RATING	40C AMB-CONT								
CC									
DE	6203	**ODE**	6203						
ENCL	TEAO	**SN**							

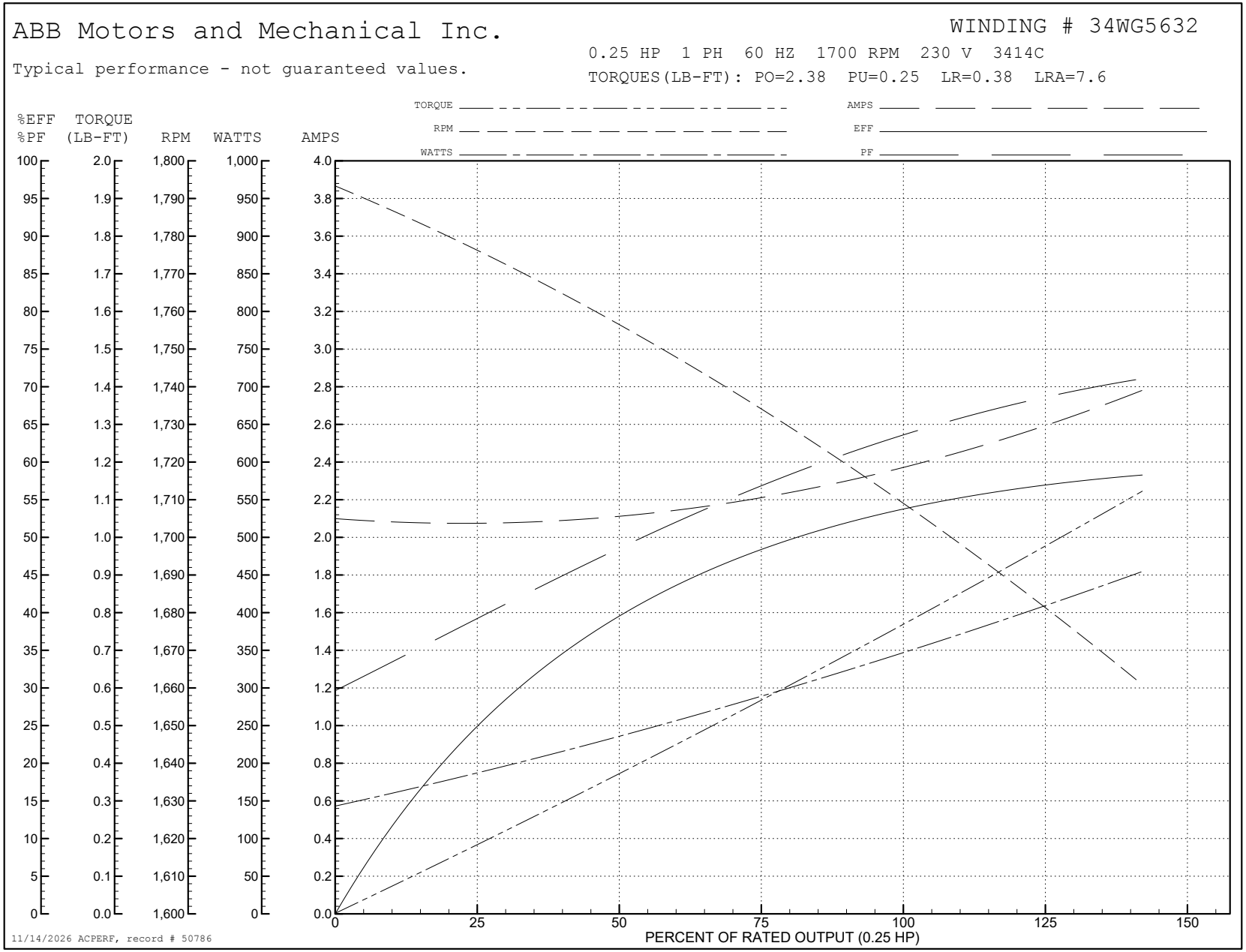
AC Induction Motor Performance Data
Record # 50786
Typical performance - not guaranteed values

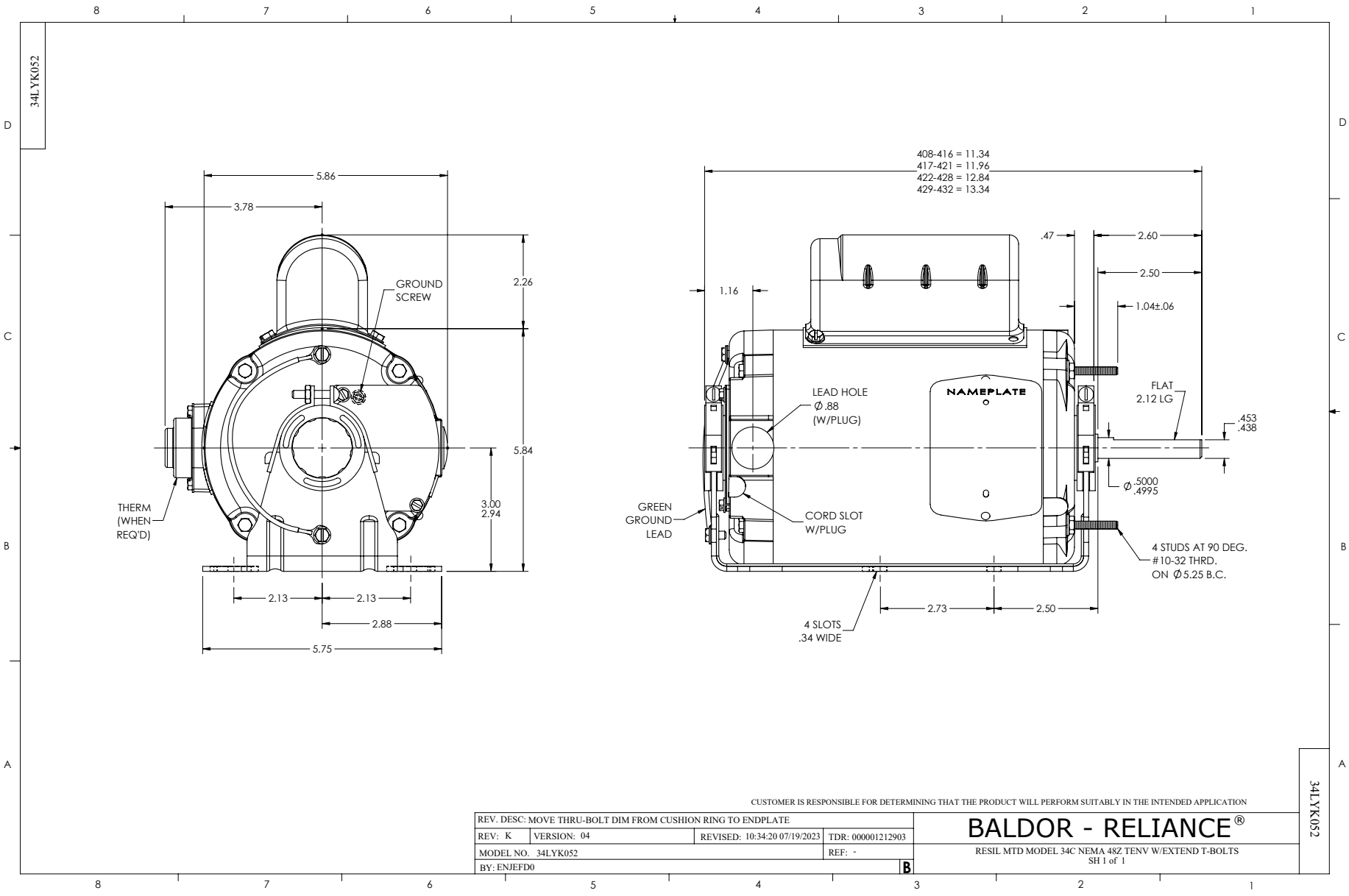
Winding: 34WG5632-R001	**Type:** 3414C	**Enclosure:** TEAO

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.25	**Full Load Torque**	0.75 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			4.8/2.4	**Breakdown Torque**	2.38 LB-FT
R.P.M.			1700	**Pull-up Torque**	0.25 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	0.38 LB-FT
NEMA Design Code	N	**KVA Code**	H	**Starting Current**	7.6 A
Service Factor (S.F.)			1	**No-load Current**	2.1 A
NEMA Nom. Eff.	54	**Power Factor**	62	**Line-line Res. @ 25ºC**	8.24 Ω A Ph 34.8 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	

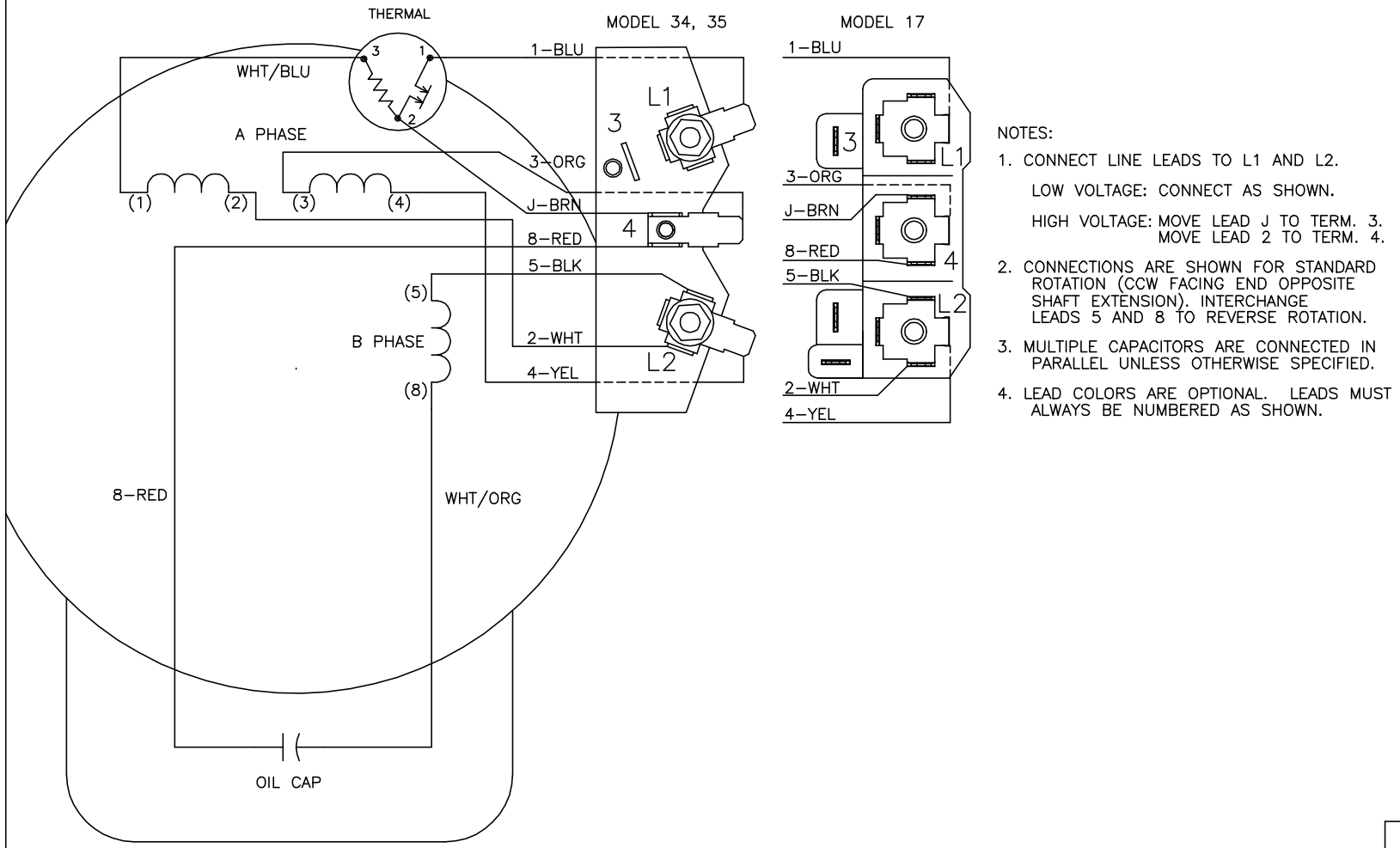
Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	38	48	56	61	68	73
Efficiency	23	41	49	53	57	58
Speed	1775	1754	1733	1715	1689	1658
Line amperes	2.06	2.13	2.23	2.32	2.55	2.79


ABB Motors and Mechanical Inc.
WINDING # 34WG5632
Typical performance - not guaranteed values.
0.25 HP 1 PH 60 HZ 1700 RPM 230 V 3414C
TORQUES(LB-FT): PO=2.38 PU=0.25 LR=0.38 LRA=7.6
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.25 HP)
11/14/2026 ACPERF, record # 50786


34LYK052
5.86
3.78
GROUND SCREW
2.26
5.84
3.00
2.94
THERM (WHEN REQ'D)
2.13
2.13
2.88
5.75
408-416 = 11.34
417-421 = 11.96
422-428 = 12.84
429-432 = 13.34
.47
2.60
2.50
1.16
1.04±.06
LEAD HOLE Ø .88 (W/PLUG)
NAMEPLATE
FLAT 2.12 LG
.453
.438
Ø .5000
.4995
GREEN GROUND LEAD
CORD SLOT W/PLUG
4 STUDS AT 90 DEG. #10-32 THRD. ON Ø5.25 B.C.
2.73
2.50
4 SLOTS .34 WIDE
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: MOVE THRU-BOLT DIM FROM CUSHION RING TO ENDPLATE
REV: K
VERSION: 04
REVISED: 10:34:20 07/19/2023
TDR: 000001212903
MODEL NO. 34LYK052
REF: -
BY: ENJEFD0
B
BALDOR - RELIANCE®
RESIL MTD MODEL 34C NEMA 48Z TENV W/EXTEND T-BOLTS
SH 1 of 1
34LYK052

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	