ABB BALDOR RELIANCE

Customer information packet

CHM164A

.25HP, 1140RPM, 3PH, 60HZ, 48YZ, 3411M, TEAO, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
Frame	48YZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.250 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 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	.650 A @ 460.0 V
	1.300 A @ 230.0 V
	1.600 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	66.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	P
Type	AC
Mech. spec.	34M250
Base	
Status	PRD/A
Elec. spec.	34WGW194
Layout	34LYM250
Eff. date	10-28-2024
CD Diagram	CD0007
Poles	06
Leads	12#18
Proprietary	False
Created date	06-17-2013

High Voltage Full Load Amps	0.7 a
Insulation Class	B
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	12 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3411M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	11.34 IN
Power Factor	57
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	1.25
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	1140 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 ES

Nameplate

NP1257L											
CAT.NO.	CHM164A										
SPEC.	34M250W194G1										
HP	.25										
VOLTS	230/460										
AMP	1.3/.65										
RPM	1140										
FRAME	48YZ		**HZ**	60		**PH**	3				
SER.F.	1.25	**CODE**	K	**DES**	B	**CL**	B				
NEMA-NOM-EFF	66	**PF**	57								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	TEAO	**SN**									
	SFA 1.5/.75										

Parts List

Part number	Description	Quantity
SA264717	SA 34M250W194G1	1.000 ea
RA251423	RA 34M250W194G1	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
RM1000A03	CUSHION RING, MDL 17-33-34	1.000 ea
HA6004A01A	CLAMP CUSHION RING ASSY	1.000 ea
SP1000A09	TERM BOARD, MODEL 34 SW, (RPL SP1000A01)	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
HW1000A08	#8 SAE FLAT WASHER	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
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34BA4001A01SP	RESILIENT BASE, 408-416	1.000 ea
HA3169A17	THRUBOLT #8-32 THDS X 8.375" LONG	4.000 ea
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0007	CONNECTION LABEL	1.000 ea
NP1257L	ALUM UL CC THERMAL REV MTG	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

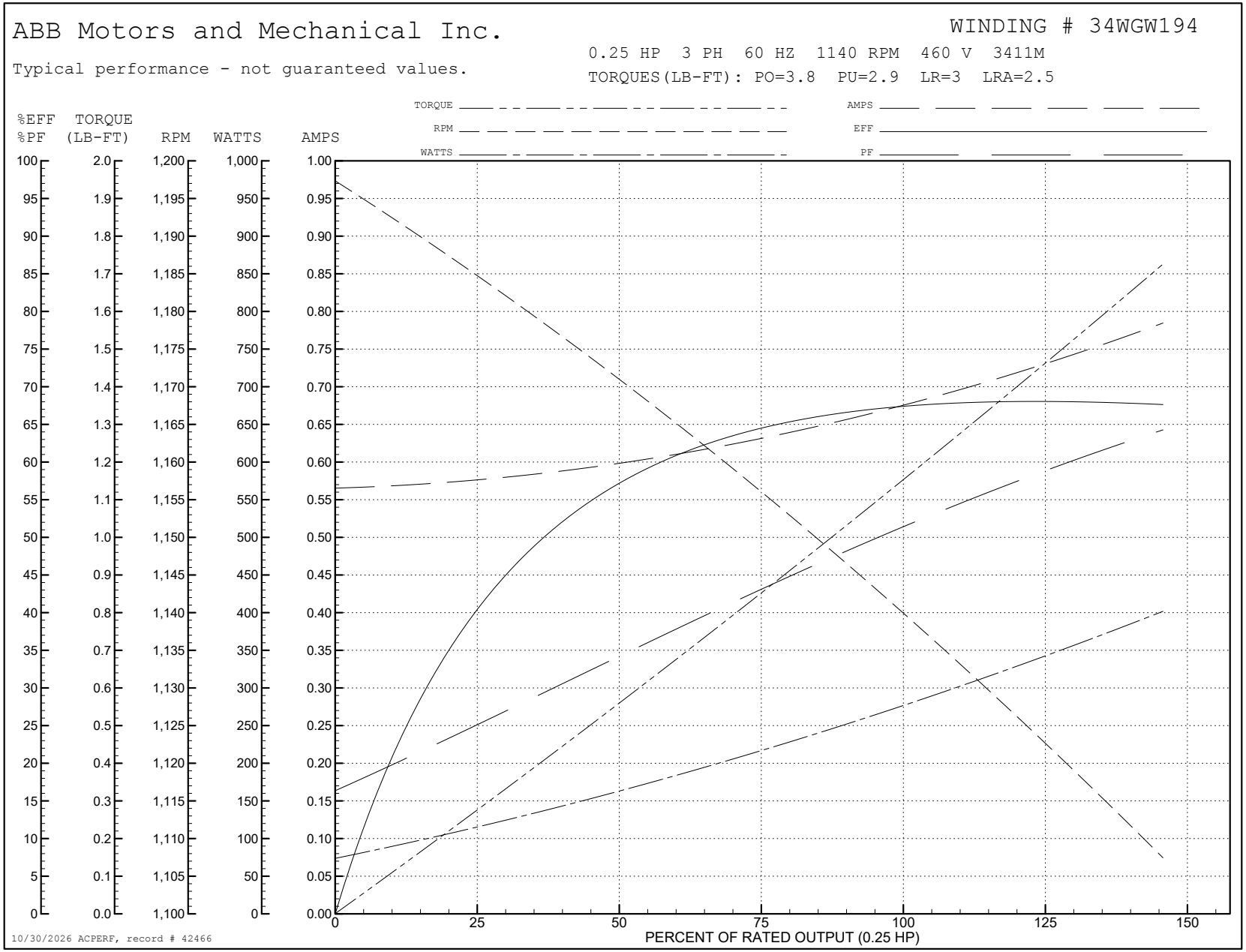
AC Induction Motor Performance Data
Record # 42466
Typical performance - not guaranteed values

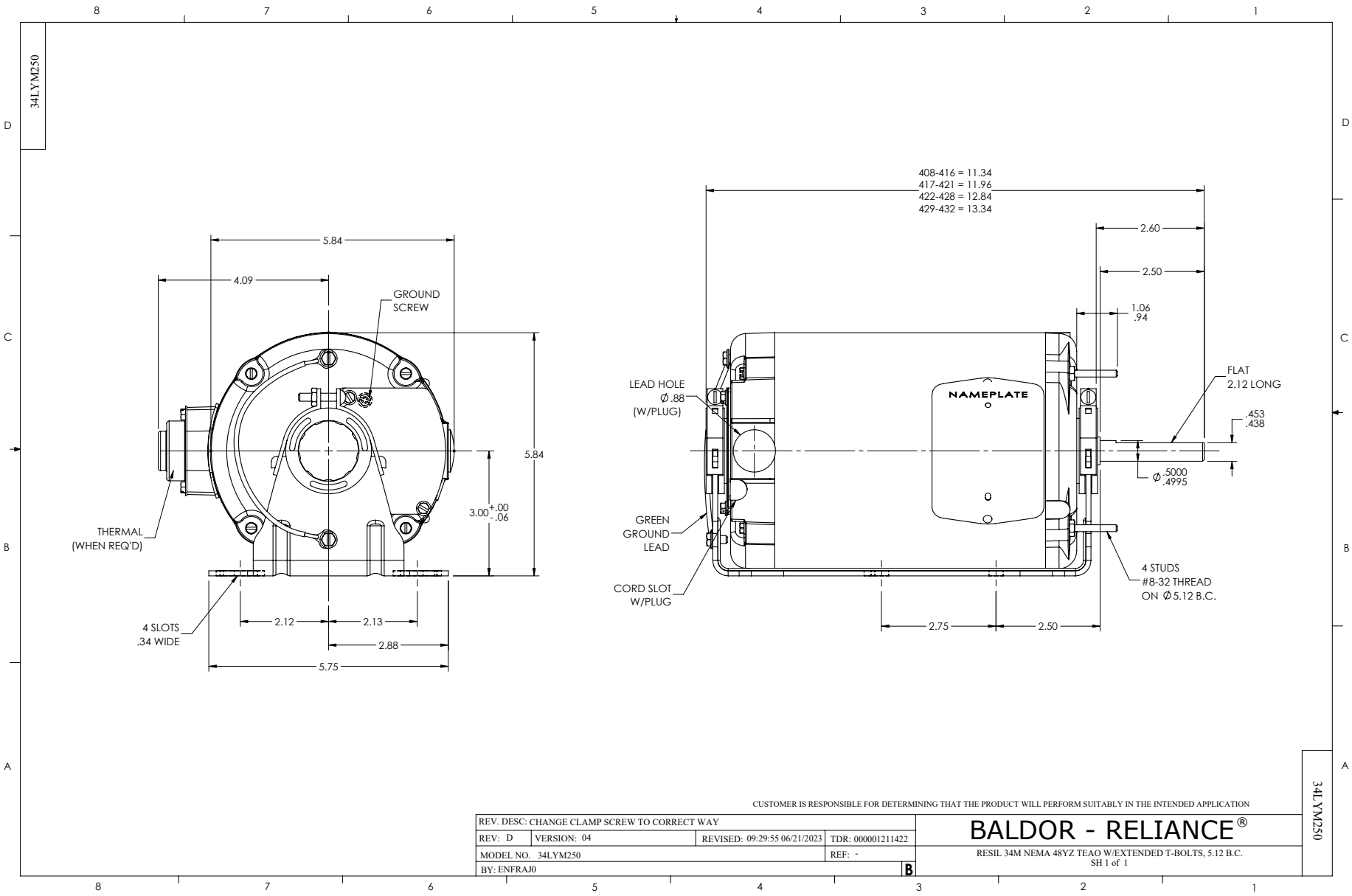
Winding: 34WGW194-R004	**Type:** 3411M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.25 AIR OVER	**Full Load Torque**	1.15 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.3/.65	**Breakdown Torque**	3.8 LB-FT
R.P.M.			1140	**Pull-up Torque**	2.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	3 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	2.5 A
Service Factor (S.F.)			1.25	**No-load Current**	0.57 A
NEMA Nom. Eff.	66	**Power Factor**	57	**Line-line Res. @ 25ºC**	80.7 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps			1.5/.75	**Temp. Rise @ S.F. Load**	
				Locked-rotor Power Factor	69
				Rotor inertia	0.0261 LB-FT2

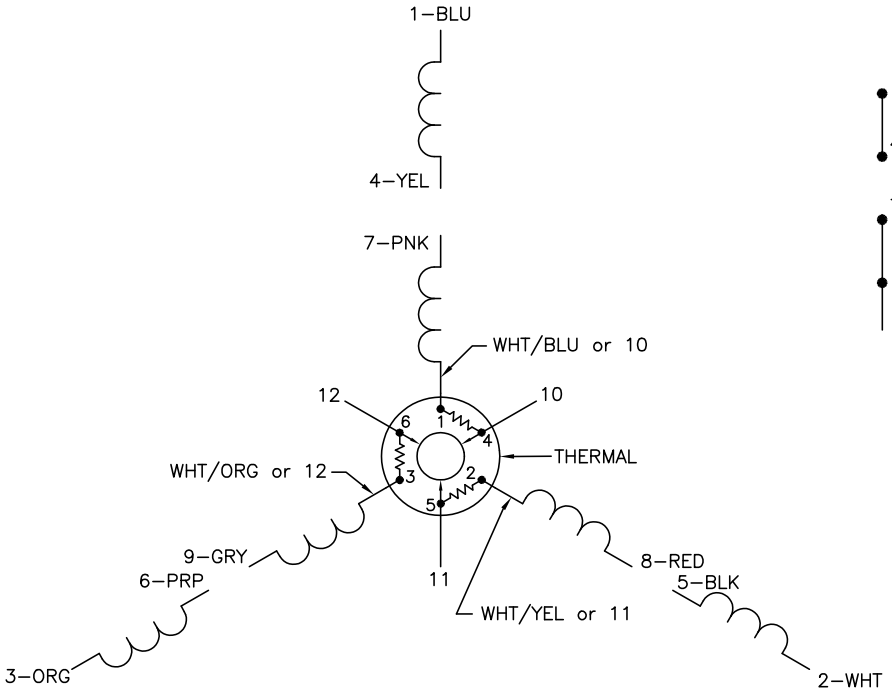
Load Characteristics 460 V, 60 Hz, 0.25 HP

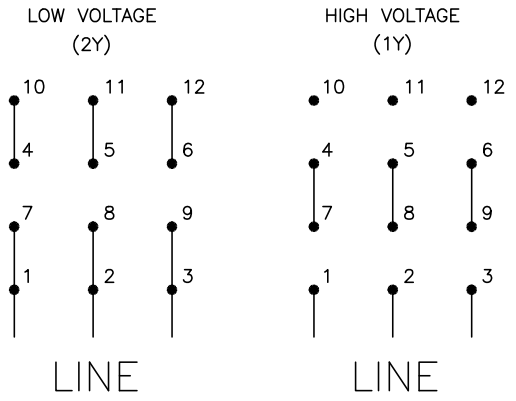
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	24	34	43	51	58	61	58
Efficiency	44	57	64	67.4	68	67.7	68
Speed	1184	1171	1157	1139	1122	1109	1122
Line amperes	0.57	0.6	0.63	0.68	0.73	0.78	0.73


ABB Motors and Mechanical Inc.
WINDING # 34WGW194
Typical performance - not guaranteed values.
0.25 HP 3 PH 60 HZ 1140 RPM 460 V 3411M
TORQUES(LB-FT): PO=3.8 PU=2.9 LR=3 LRA=2.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.25 HP)
10/30/2026 ACPERF, record # 42466


34LYM250
5.84
4.09
GROUND SCREW
5.84
3.00 +.00 -.06
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.12
2.13
2.88
5.75
408-416 = 11.34
417-421 = 11.96
422-428 = 12.84
429-432 = 13.34
2.60
2.50
1.06 .94
LEAD HOLE Ø.88 (W/PLUG)
NAMEPLATE
FLAT 2.12 LONG
.453 .438
Ø .5000 .4995
GREEN GROUND LEAD
CORD SLOT W/PLUG
4 STUDS #8-32 THREAD ON Ø5.12 B.C.
2.75
2.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: D
VERSION: 04
REVISED: 09:29:55 06/21/2023
TDR: 000001211422
MODEL NO. 34LYM250
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL 34M NEMA 48YZ TEAO W/EXTENDED T-BOLTS, 5.12 B.C.
SH 1 of 1
34LYM250

CD0007





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			BALDOR ELECTRIC Co.
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
CD0007		FILE: AAA00008370	MDL: –
		MTL: –	3PH, DV, THERMAL, 12 LEADS

CD0007