ABB BALDOR RELIANCE

Customer information packet

CHM465A

.75HP, 1140RPM, 3PH, 60HZ, 56YZ, 3428M, 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	Three Phase
Output @ Frequency	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
	208.0 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	3.300 A @ 208.0 V
	3.000 A @ 230.0 V
	1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None

Part Detail

Revision	L
Type	AC
Mech. spec.	34M249
Base	
Status	PRD/A
Elec. spec.	34WGY151
Layout	34LYM249
Eff. date	10-28-2024
CD Diagram	CD0007
Poles	06
Leads	12#18
Proprietary	False
Created date	05-30-2013

Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 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	3428M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	13.58 IN
Power Factor	59
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
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	EP

Nameplate

	NP1257L							
CAT.NO.	CHM465A							
SPEC.	34M249Y151G1							
HP	.75							
VOLTS	208-230/460							
AMP	3.3-3/1.5							
RPM	1140							
FRAME	56YZ	**HZ**	60	**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	B	
NEMA-NOM-EFF	77	**PF**	59					
RATING	40C AMB-CONT							
CC								
DE	6203	**ODE**	6203					
ENCL	TEAO	**SN**						

Parts List

Part number	Description	Quantity
SA263875	SA 34M249Y151G1	1.000 ea
RA250589	RA 34M249Y151G1	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
SP1000A09	TERM BOARD, MODEL 34 SW, (RPL SP1000A01)	1.000 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
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
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HW1000A08	#8 SAE FLAT WASHER	8.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
34BA4003G01	RESILIENT BASE	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
LC0007	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 # 42368
Typical performance - not guaranteed values

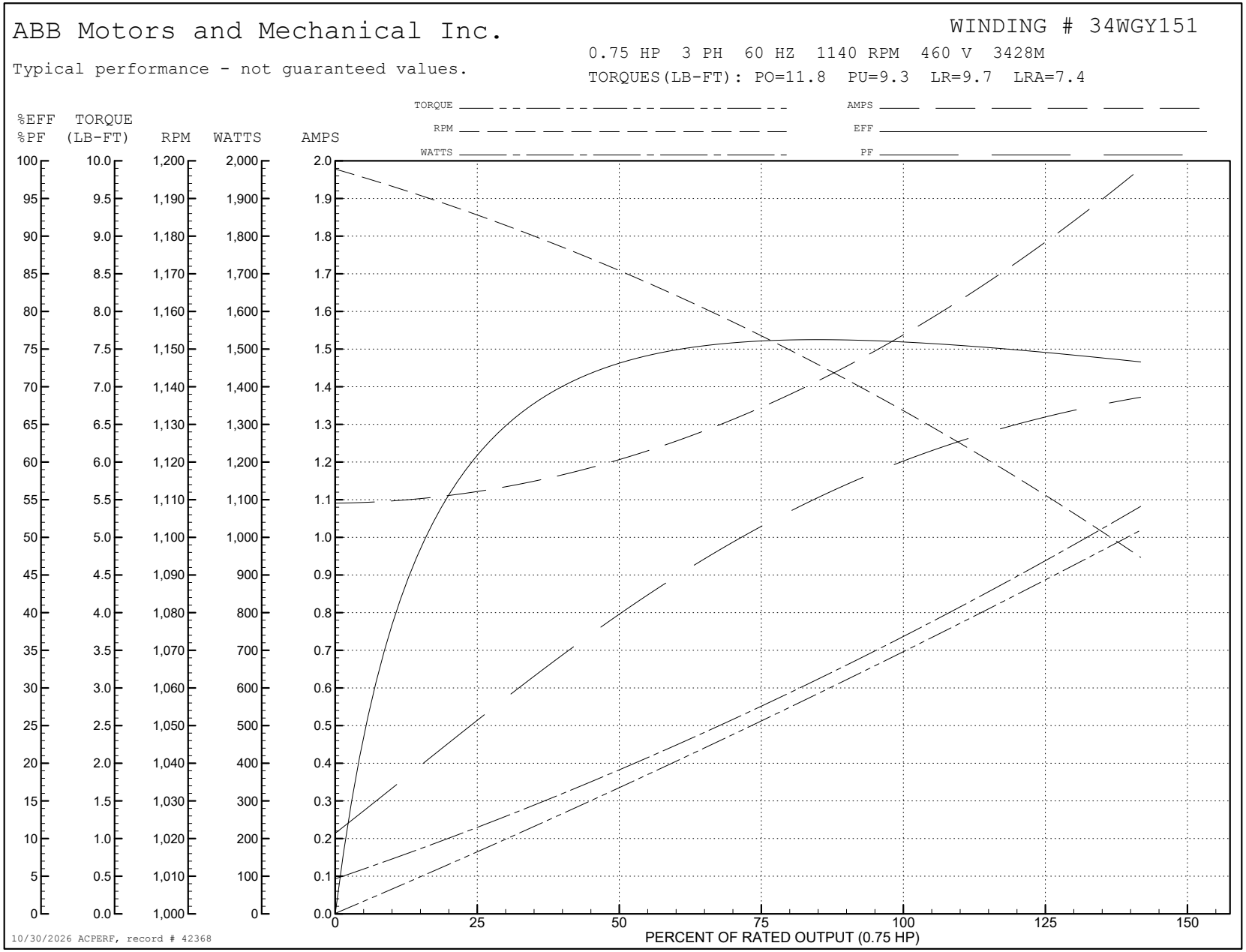
Winding: 34WGY151-R004 **Type:** 3428M **Enclosure:** TEAO

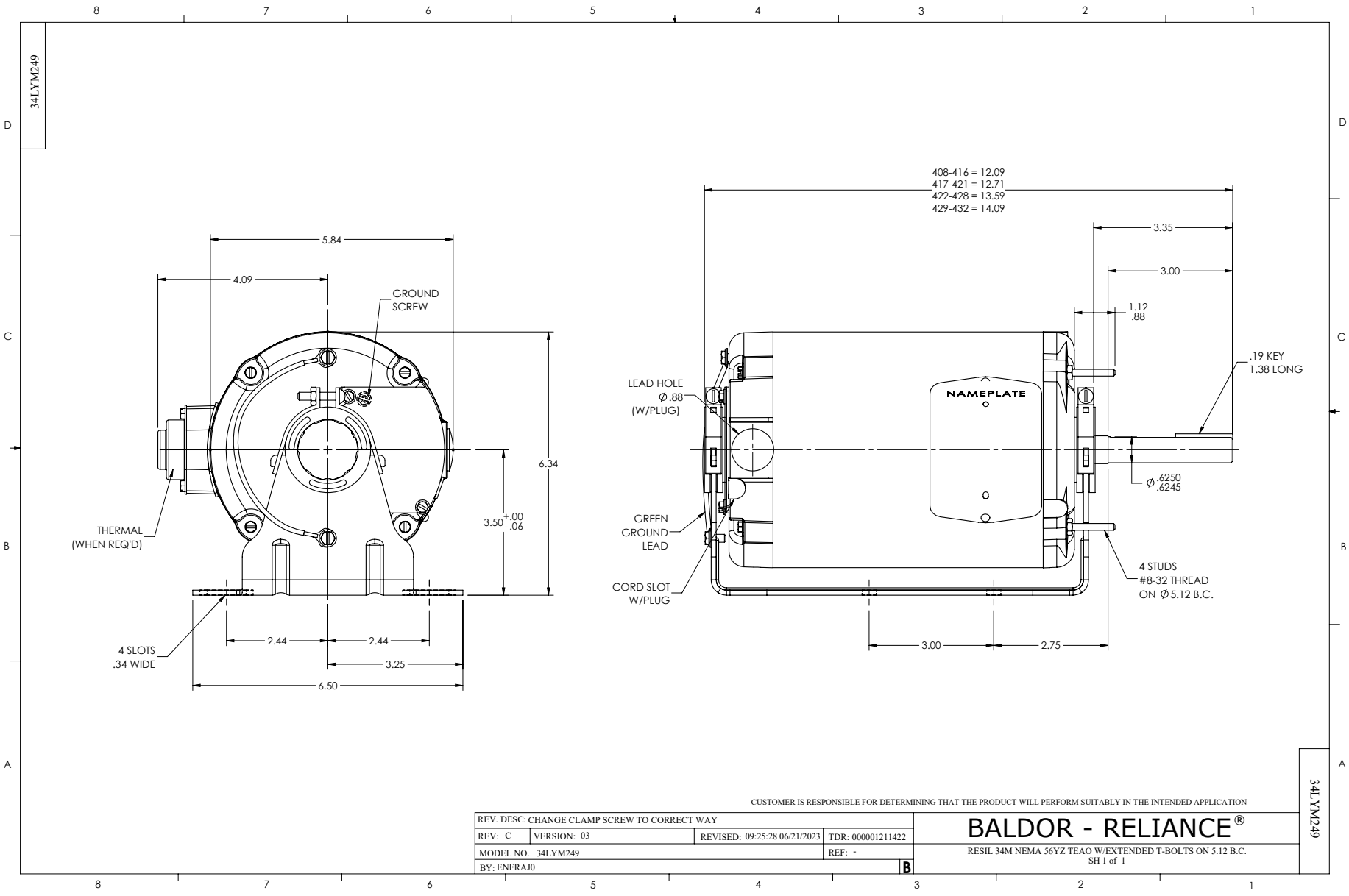
Nameplate Data		
Rated Output (HP)		.75 AIR OVER
Volts		208-230/460
Full Load Amps		3.3-3/1.5
R.P.M.		1140
Hz	60 **Phase**	3
NEMA Design Code	B **KVA Code**	K
Service Factor (S.F.)		1.15
NEMA Nom. Eff.	77 **Power Factor**	59
Rating - Duty		40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	3.4 LB-FT
Start Configuration	direct on line
Breakdown Torque	11.8 LB-FT
Pull-up Torque	9.3 LB-FT
Locked-rotor Torque	9.7 LB-FT
Starting Current	7.4 A
No-load Current	1.1 A
Line-line Res. @ 25ºC	21.9 Ω
Temp. Rise @ Rated Load	
Locked-rotor Power Factor	56
Rotor inertia	0.0665 LB-FT2

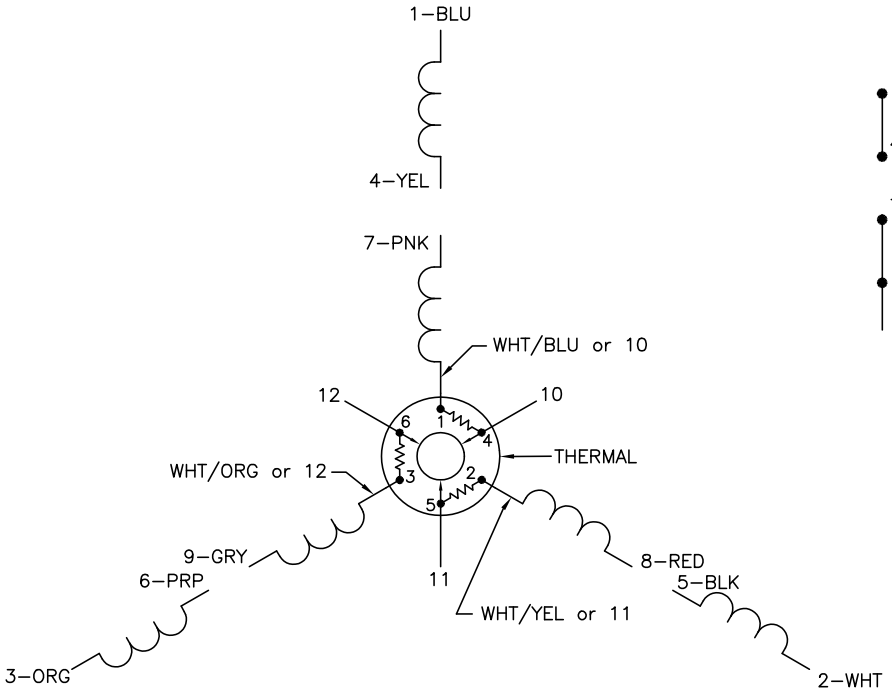
Load Characteristics 460 V, 60 Hz, 0.75 HP

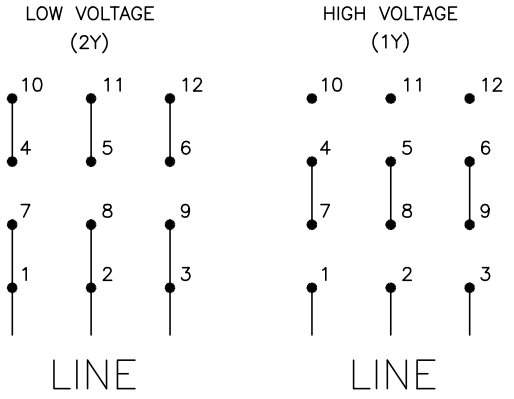
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	26	40	51	59	65	68	63
Efficiency	60	72	76	77	75	73	75.8
Speed	1185	1170	1155	1135	1115	1095	1123
Line amperes	1.1	1.2	1.4	1.5	1.7	2	1.62


ABB Motors and Mechanical Inc.
WINDING # 34WGY151
Typical performance - not guaranteed values.
0.75 HP 3 PH 60 HZ 1140 RPM 460 V 3428M
TORQUES(LB-FT): PO=11.8 PU=9.3 LR=9.7 LRA=7.4
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.75 HP)
10/30/2026 ACPERF, record # 42368


34LYM249
5.84
4.09
GROUND SCREW
6.34
3.50 +.00 -.06
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.44
2.44
3.25
6.50
408-416 = 12.09
417-421 = 12.71
422-428 = 13.59
429-432 = 14.09
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: 09:25:28 06/21/2023
TDR: 000001211422
MODEL NO. 34LYM249
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
RESIL 34M NEMA 56YZ TEAO W/EXTENDED T-BOLTS ON 5.12 B.C.
SH 1 of 1
34LYM249

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