ABB BALDOR RELIANCE

Customer information packet

CL3712T

10HP, 1740RPM, 1PH, 60HZ, 215TC, 3748LC, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	215TC
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	10.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	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	38.000 A @ 230.0 V
	40.000 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a
Insulation Class	F

Part Detail

Revision	S
Type	AC
Mech. spec.	37M317
Base	
Status	PRD/A
Elec. spec.	37WGT875
Layout	37LYM317
Eff. date	05-13-2024
CD Diagram	CD1084
Poles	04
Leads	2#10 A PH,2#14 B PH
Proprietary	False
Created date	02-05-2010

Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Cap Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3748LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.25 IN
Power Factor	98
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1740 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	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	CL3712T								
SPEC.	37M317T875								
HP	10								
VOLTS	208-230								
AMP	40-38								
RPM	1740								
FRAME	215TC	**HZ**	60			**PH**	1		
SER.F.	1.00	**CODE**	F	**DES**	L	**CLASS**	F		
NEMA-NOM-EFF	86.5	**PF**	98						
RATING	40C AMB-CONT								
CC									
DE	6307	**ODE**	6206						
ENCL	TEFC	**SN**							

Parts List

Part number	Description	Quantity
SA190775	SA 37M317T875	1.000 ea
RA178441	RA 37M317T875	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	2.000 ea
RE5029	MARS 91423 DOUBLE POLE 230-240V CONTACTO	1.000 ea
EC1216C06SP	ELEC CAP, 216-259 MFD, 250V, 2.06D X 4.	4.000 ea
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
13XF0832A08	8-32 X.50 PAN HD,SLTD, TYPE F SCREW, ZIN	2.000 ea
37CB3804A42	CAPAC. BOX 37 MOTORS FOR 6-7 CAPAC. W/RE	1.000 ea
37CB2804	ADAPTER, 37 KO BOX (SHOE BOX)	2.000 ea
37GS1017	GASKET - CONDUT BOX .06 THK NEOPRENE	4.000 ea
19XW2520A16	SCREW,1/4-20X1 TAPTITE-II OR ROLOC 91	4.000 ea
HA6003A47	CAPAC CLAMP	1.000 ea
HA6003A45	CAPAC CLAMP - CLIP (WHITE ZINC PLATED)	2.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	4.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	2.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3300A01	PUEP ASSEMBLY FOR ROUTING	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4007A06	IEC FH W/GRS, NOT @6, 3 F/C HOL & NOT FO	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4509	CAPAC BOX LID, STAMPED	1.000 ea
37GS3016	GASKET, CAPAC BOX LID	1.000 ea

51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	6.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
SP5172A06	37 TYPE L TORQ STAT SWITCH LEAD ASSEMBLY	1.000 ea
HA3104A25	THRUBOLT .31-18 X 14.75	4.000 ea
WD1000A15	3-520132-2 AMP FLAG (4M/RL NON-CANC/NON-	12.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
NS2605	INSULATOR FOR 37 FRAMESWITCH (MH1011A10)	1.000 ea
LC0017	CONN LABEL-1 PHASE-SINGLE VOLT-REV ROTNO	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

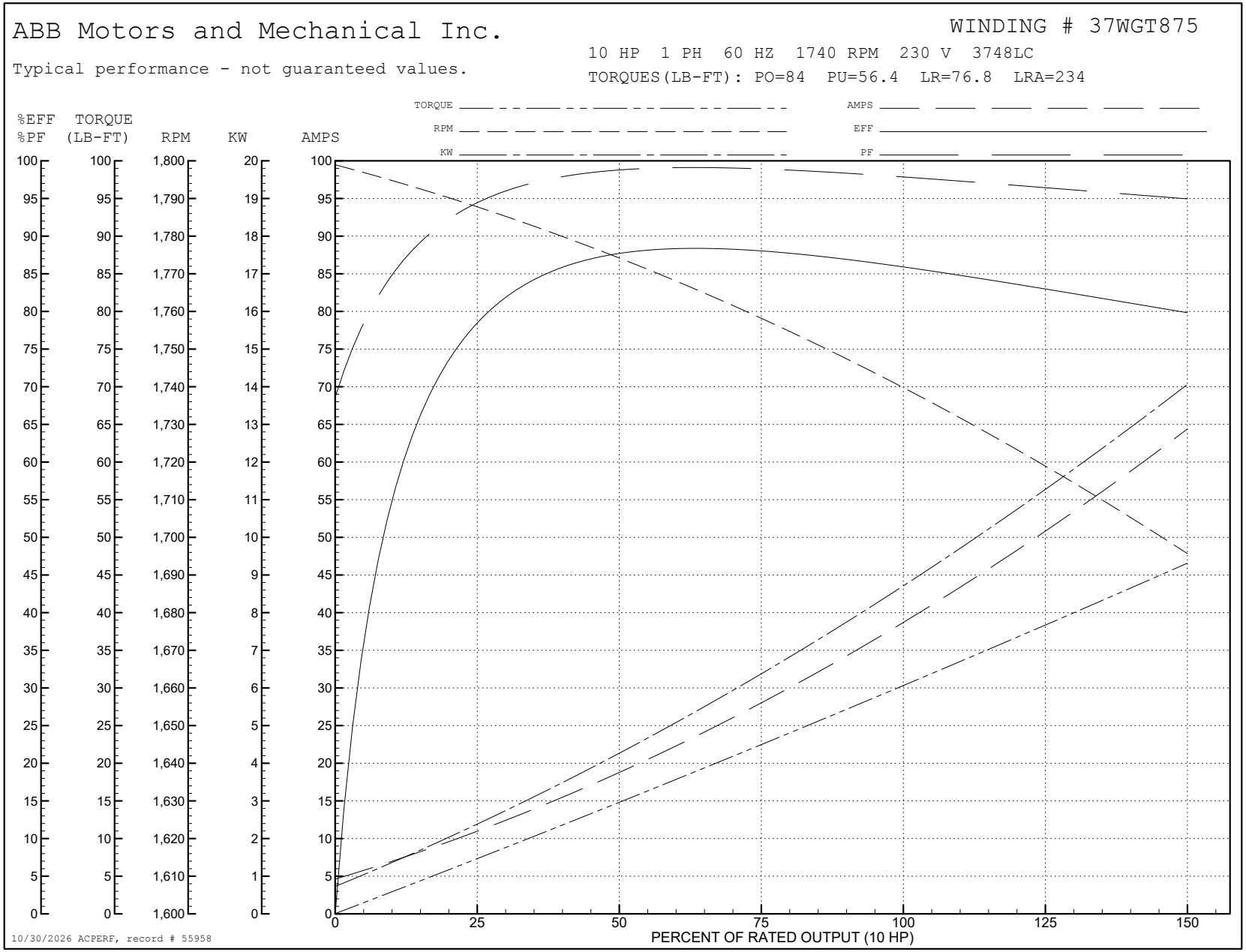
AC Induction Motor Performance Data
Record # 55958
Typical performance - not guaranteed values

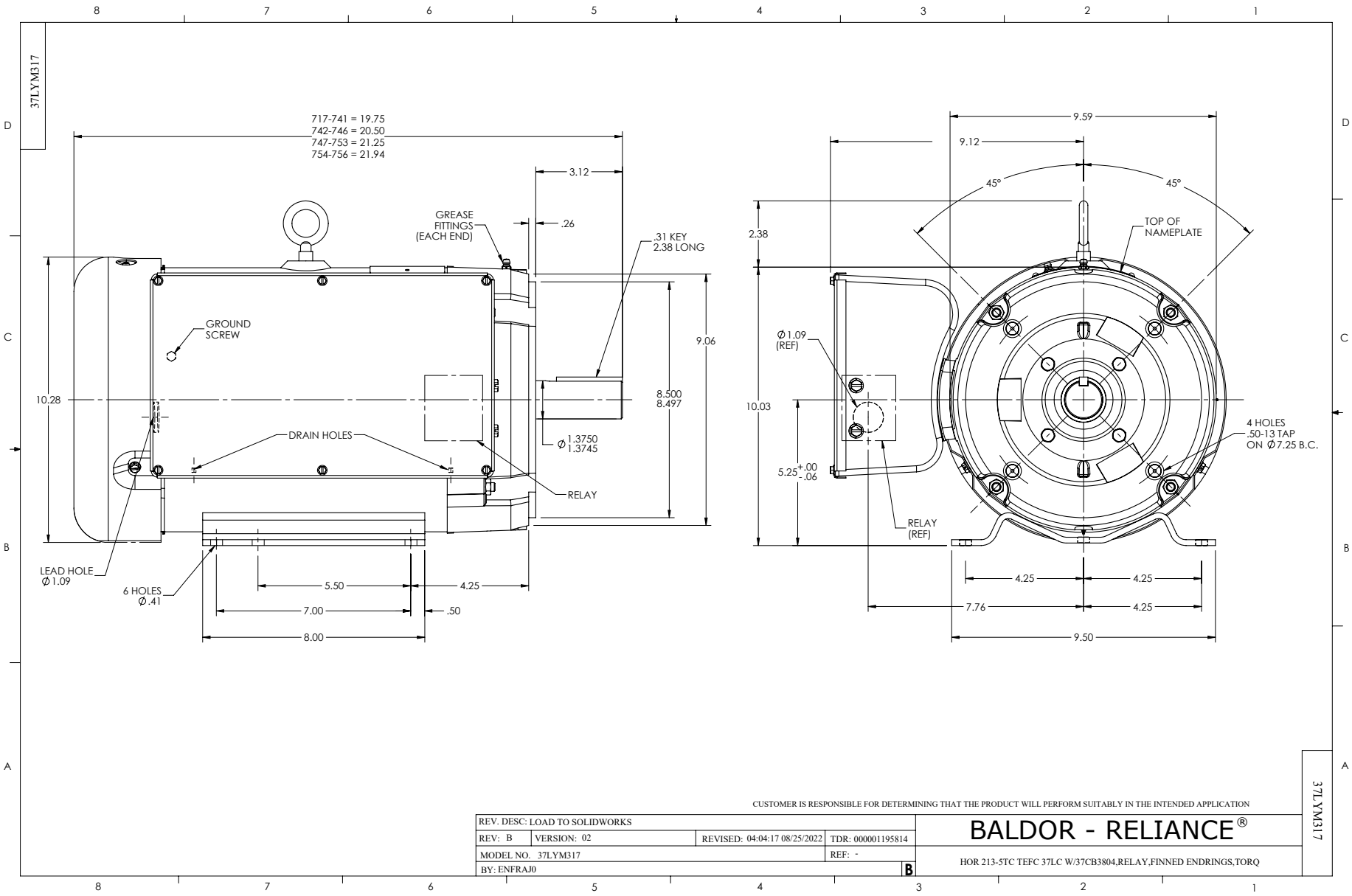
Winding: 37WGT875-R014	**Type:** 3748LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			10	**Full Load Torque**	29.8 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			40-38	**Breakdown Torque**	84 LB-FT
R.P.M.			1740	**Pull-up Torque**	56.4 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	76.8 LB-FT
NEMA Design Code	L	**KVA Code**	F	**Starting Current**	234 A
Service Factor (S.F.)			1	**No-load Current**	4.37 A
NEMA Nom. Eff.	86.5	**Power Factor**	98	**Line-line Res. @ 25ºC**	0.239 Ω A Ph 0.65 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	96°C
				Locked-rotor Power Factor	95.5
				Rotor inertia	1.18 LB-FT2

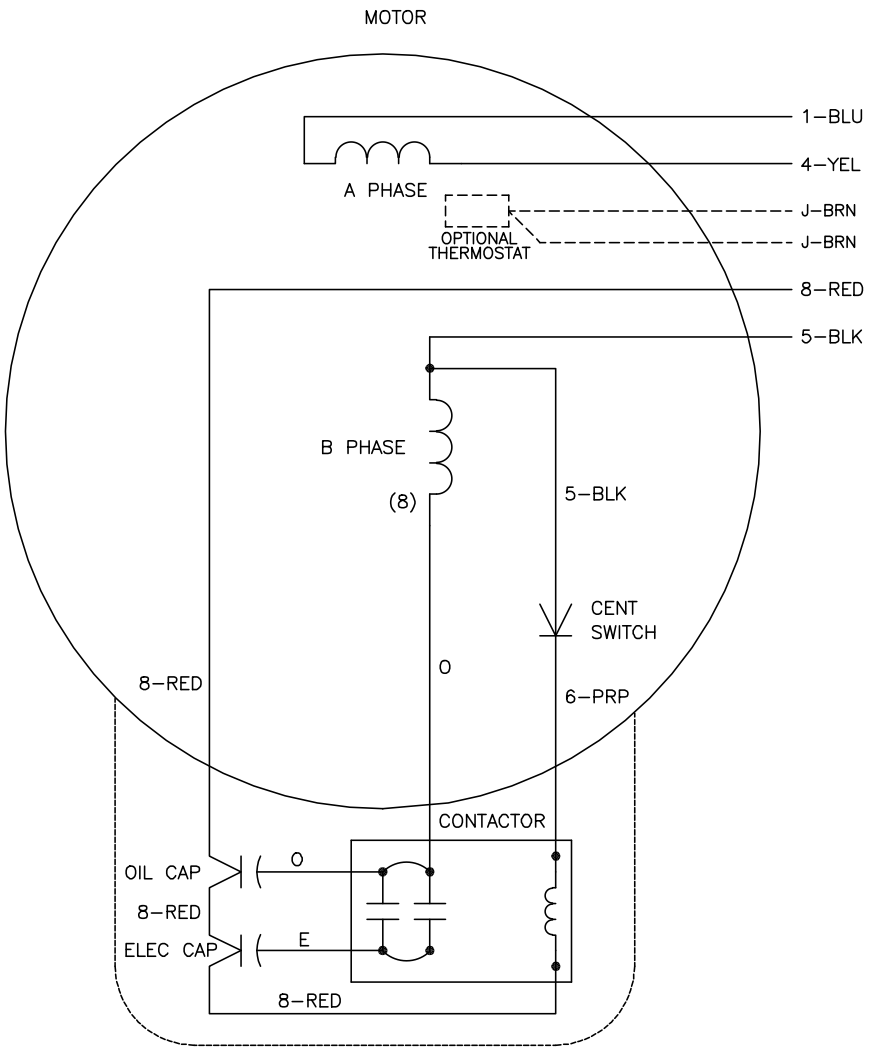
Load Characteristics 230 V, 60 Hz, 10 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	96	98	98	98	97	95
Efficiency	75.4	86.2	87.7	86.8	84.1	79.4
Speed	1788	1775	1759	1741	1720	1696
Line amperes	10.7	18.9	28	37.7	49.1	64.9


ABB Motors and Mechanical Inc.
WINDING # 37WGT875
10 HP 1 PH 60 HZ 1740 RPM 230 V 3748LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=84 PU=56.4 LR=76.8 LRA=234
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
10/30/2026 ACPERF, record # 55958


37LYM317
717-741 = 19.75
742-746 = 20.50
747-753 = 21.25
754-756 = 21.94
3.12
.26
GREASE FITTINGS (EACH END)
.31 KEY 2.38 LONG
GROUND SCREW
9.06
10.28
8.500
8.497
DRAIN HOLES
Ø 1.3750
1.3745
RELAY
LEAD HOLE Ø1.09
6 HOLES Ø.41
5.50
4.25
7.00
.50
8.00
9.59
9.12
45°
45°
TOP OF NAMEPLATE
2.38
Ø 1.09 (REF)
10.03
5.25 +.00 -.06
4 HOLES .50-13 TAP ON Ø7.25 B.C.
RELAY (REF)
4.25
4.25
7.76
4.25
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: B
VERSION: 02
REVISED: 04:04:17 08/25/2022
TDR: 000001195814
MODEL NO. 37LYM317
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HOR 213-5TC TEFC 37LC W/37CB3804,RELAY,FINNED ENDRINGS,TORQ
37LYM317

CD1084



	LINE A	LINE B
STD	1,8	4,5
OPP	1,5	4,8

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. USE GE CR353CB2AB1, OR FURNAS 45DG20AG, OR EQUIVALENT POTENTIAL RELAY.
5. DRESS LEADS AWAY FROM RELAY TO AVOID INTERFERENCE.
6. CAPS AND RELAY MAY BE SEPERATELY MOUNTED.
7. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD1084

REV. DESC: CHG 'RELAY' TO 'CONTACTOR'		
REV. LTR: E	VERSION: 02	TDR: 000001259046
FILE: \AAA\00029\485	REVISED: 01:02:57 07/08/2025	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

TYPE LC, SV, REV, 4LD, RELAY W/CENT SW, ON/OFF SW

SH 1 of 1