ABB BALDOR RELIANCE

Customer information packet

L3709T

7.5HP, 3450RPM, 1PH, 60HZ, 213T, 3735LC, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	213T
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	7.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	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	33.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	83.0 %
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	33.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F

Part Detail

Revision	L
Type	AC
Mech. spec.	37M324
Base	
Status	PRD/A
Elec. spec.	37WGW579
Layout	37LYM324
Eff. date	05-13-2024
CD Diagram	CD0017A02
Poles	02
Leads	2#10 A PH,2#14 B PH
Proprietary	False
Created date	02-11-2010

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3735LC
Mounting Arrangement	F1
Number of Poles	2
Overall Length	17.89 IN
Power Factor	91
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
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	3450 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.	L3709T							
SPEC.	37M324W579G1							
HP	7.5							
VOLTS	230							
AMP	33							
RPM	3450							
FRAME	213T	**HZ**	60			**PH**	1	
SER.F.	1.00	**CODE**	F	**DES**	L	**CLASS**	F	
NEMA-NOM-EFF	83	**PF**	91					
RATING	40C AMB-CONT							
CC								
DE	6307	**ODE**	6206					
ENCL	TEFC	**SN**						

Parts List

Part number	Description	Quantity
SA190953	SA 37M324W579G1	1.000 ea
RA178618	RA 37M324W579G1	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	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
37GS3012A01	GASKET,CAP.BOX 1/16"THICKLEXIDE SV-330 T	1.000 ea
10XN2520A10	1/4-20X 5/8 HEX HD X	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3100A01	PUEP ASSEMBLY - ROUTING PUPROSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4007A41	IEC FH W/GRSR, NOTCH @ 6:00 & 3 FAN CVR,	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 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
37CB5005A02	CAPACITOR BOX KIT, 37CB3802, OC3025F11,	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
37FN3002A01SP	EXFN, PLASTIC, 9.00 OD, 1.155 ID	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.028 ga
SP5172A05	37 TYPE LC TORQ STAT SW LEAD ASSEMBLY	1.000 ea

NS2605	INSULATOR FOR 37 FRAMESWITCH (MH1011A10)	1.000 ea
HA3104A27	THRUBOLT 5/16 18 X 12.438	4.000 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
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

Accessories

Part number	Description	Multiplier
37-3301	C FACE KIT	P1

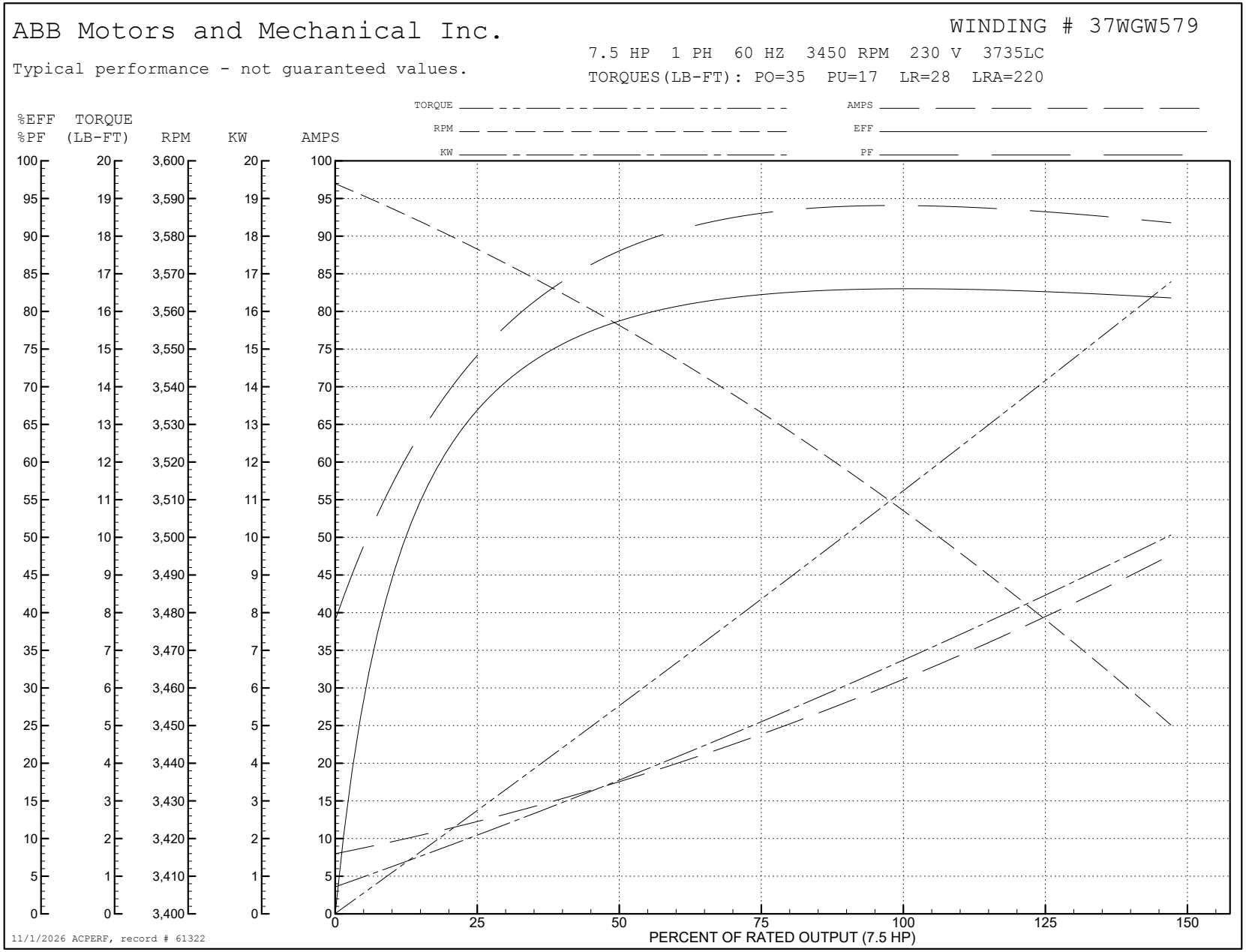
AC Induction Motor Performance Data
Record # 61322
Typical performance - not guaranteed values

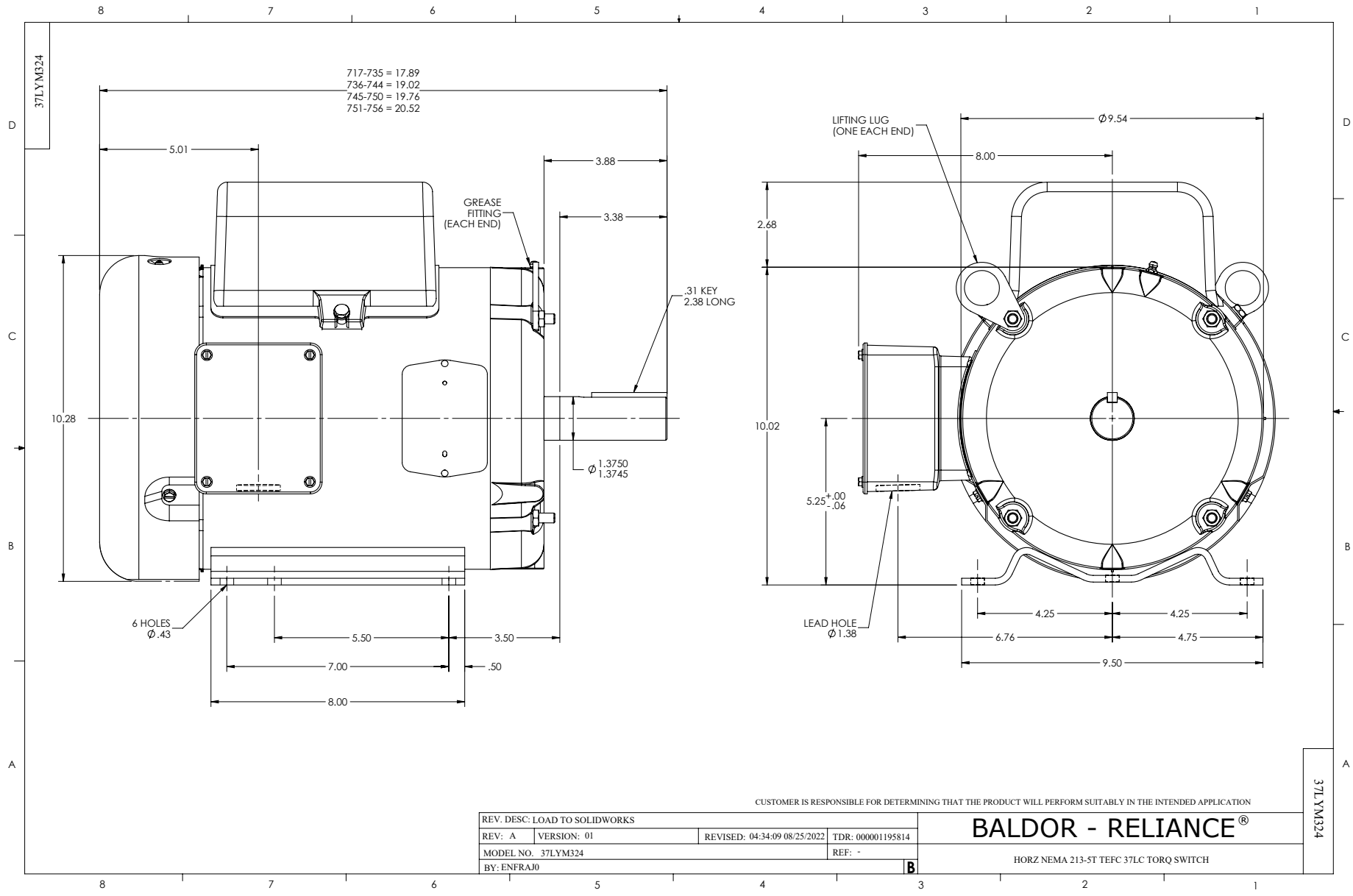
Winding: 37WGW579-R002	**Type:** 3735LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			7.5	**Full Load Torque**	11.2 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			33	**Breakdown Torque**	35 LB-FT
R.P.M.			3450	**Pull-up Torque**	17 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	28 LB-FT
NEMA Design Code	L	**KVA Code**	F	**Starting Current**	220 A
Service Factor (S.F.)			1	**No-load Current**	8.2 A
NEMA Nom. Eff.	83	**Power Factor**	91	**Line-line Res. @ 25ºC**	0.22 Ω A Ph 0.98 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	88°C

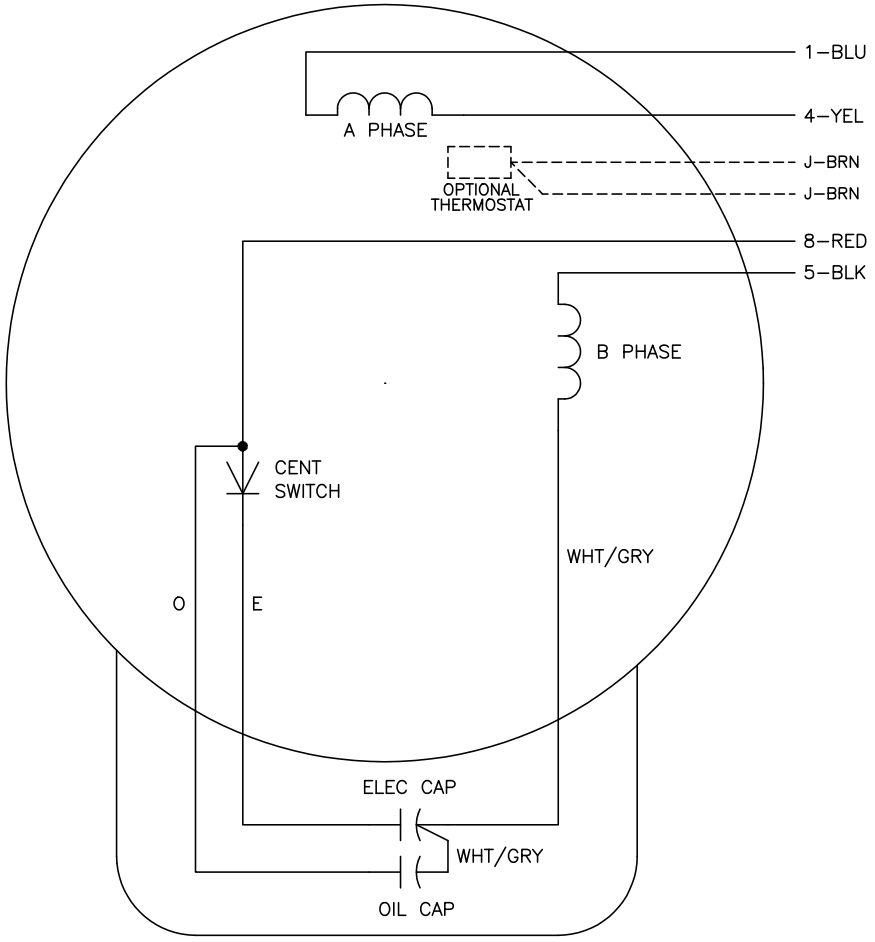
Load Characteristics 230 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	76	88	92	94	94	94
Efficiency	66.7	78.4	82.2	83.3	82.9	81.6
Speed	3575	3555	3533	3508	3481	3449
Line amperes	12	17.6	24.1	31.2	39	47.6


ABB Motors and Mechanical Inc.
WINDING # 37WGW579
7.5 HP 1 PH 60 HZ 3450 RPM 230 V 3735LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=35 PU=17 LR=28 LRA=220
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (7.5 HP)
11/1/2026 ACPERF, record # 61322


37LYM324
717-735 = 17.89
736-744 = 19.02
745-750 = 19.76
751-756 = 20.52
5.01
3.88
3.38
GREASE FITTING (EACH END)
.31 KEY
2.38 LONG
10.28
Ø 1.3750
1.3745
6 HOLES Ø.43
5.50
3.50
7.00
.50
8.00
LIFTING LUG (ONE EACH END)
Ø9.54
8.00
2.68
10.02
5.25 +.00 -.06
LEAD HOLE Ø1.38
4.25
4.25
6.76
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD TO SOLIDWORKS
REV: A
VERSION: 01
REVISED: 04:34:09 08/25/2022
TDR: 000001195814
MODEL NO. 37LYM324
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ NEMA 213-5T TEFC 37LC TORQ SWITCH
37LYM324

CD0017A02



	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. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: B	BY: JLP	REVISED: 04/09/99 11:30	TDR: 0178636
CD0017A02		FILE: AAA00007514	MDL: –
		MTL: –	TYPE LC, SV, REV, 4 LEADS

CD0017A02