ABB BALDOR RELIANCE

Customer information packet

GDL1615T

16HP, 1760RPM, 1PH, 60HZ, 256TZ, 3956LC, OPSB
Class -
Division - Not Applicable

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Specifications

Enclosure	OPSB
Frame	256TZ
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	16.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	62.000 A @ 230.0 V
	71.000 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	62.0 a
Insulation Class	F

Part Detail

Revision	AD
Type	AC
Mech. spec.	39T017
Base	
Status	PRD/A
Elec. spec.	39WGX522
Layout	39LYT017
Eff. date	06-26-2024
CD Diagram	CD1084
Poles	04
Leads	2#6 A PH,2#12 B PH
Proprietary	False
Created date	10-03-2005

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 6 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3956LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.19 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	Included
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP1256L									
CAT.NO.	GDL1615T								
SPEC.	39T017X522								
HP	16								
VOLTS	208-230								
AMP	71-62								
RPM	1760								
FRAME	256TZ	**HZ**	60			**PH**	1		
SER.F.	1.00	**CODE**	E	**DES**	L	**CLASS**	F		
NEMA-NOM-EFF	86.5	**PF**	96						
RATING	40C AMB-CONT								
CC									
DE	6309	**ODE**	6307						
ENCL	OPSB	**SN**							

Accessories

Part number	Description	Multiplier
39-3400	C FACE KIT	A8

AC Induction Motor Performance Data
Record # 37180
Typical performance - not guaranteed values

Winding: 39WGX522-R006	**Type:** 3956LC	**Enclosure:** OPSB

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			16	**Full Load Torque**	48.7 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			71-62	**Breakdown Torque**	122 LB-FT
R.P.M.			1760	**Pull-up Torque**	64.6 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	82.1 LB-FT
NEMA Design Code	L	**KVA Code**	E	**Starting Current**	331 A
Service Factor (S.F.)			1	**No-load Current**	7.42 A
NEMA Nom. Eff.	86.5	**Power Factor**	96	**Line-line Res. @ 25ºC**	0.11 Ω A Ph 0.419 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C

Load Characteristics 230 V, 60 Hz, 16 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	91	96	96	96	95	93
Efficiency	82.9	78.7	89.1	87.3	84.2	78.8
Speed	1785	1771	1753	1734	1710	1672
Line amperes	17.5	34.6	45.6	62.4	81.4	107

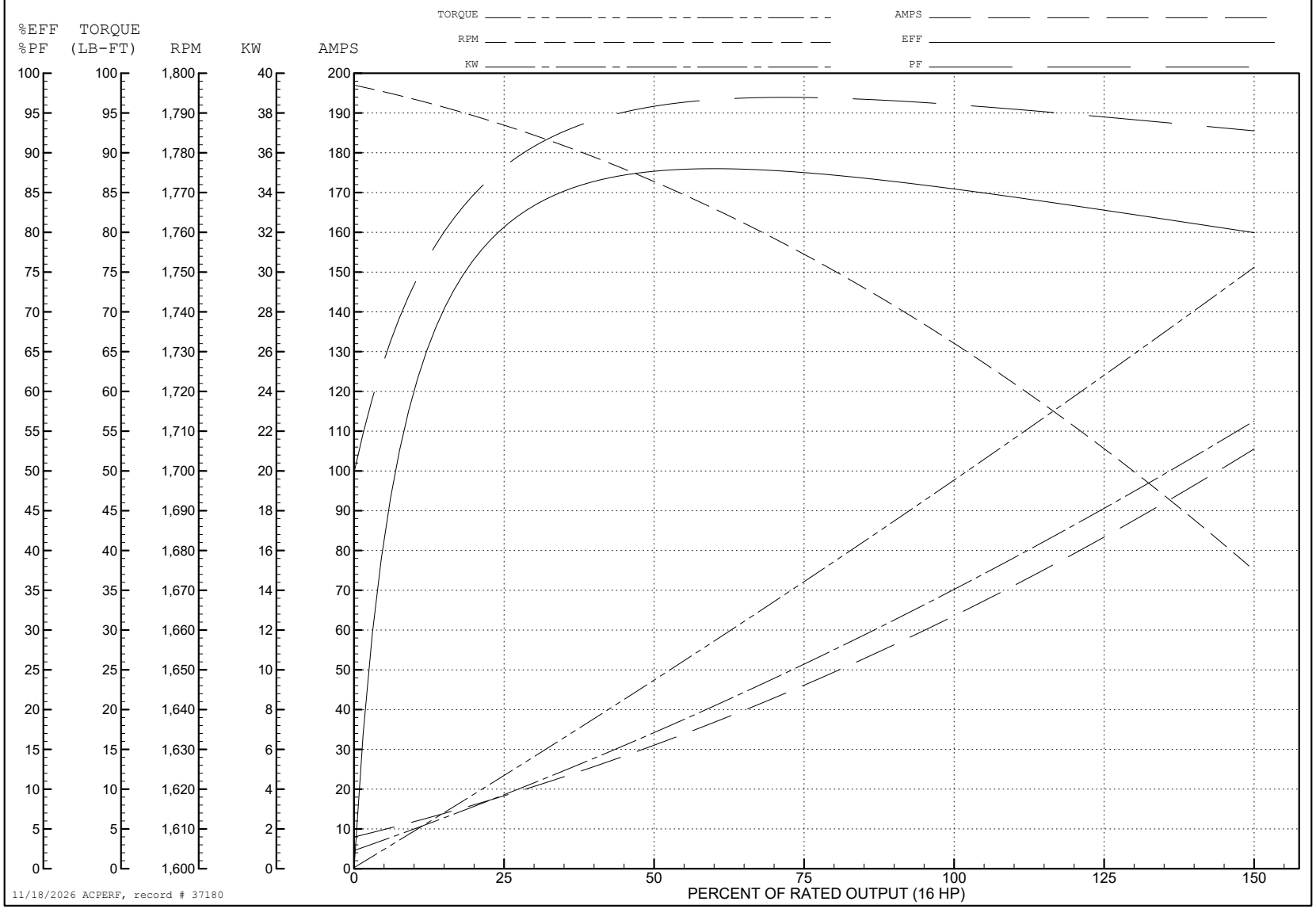
ABB Motors and Mechanical Inc.

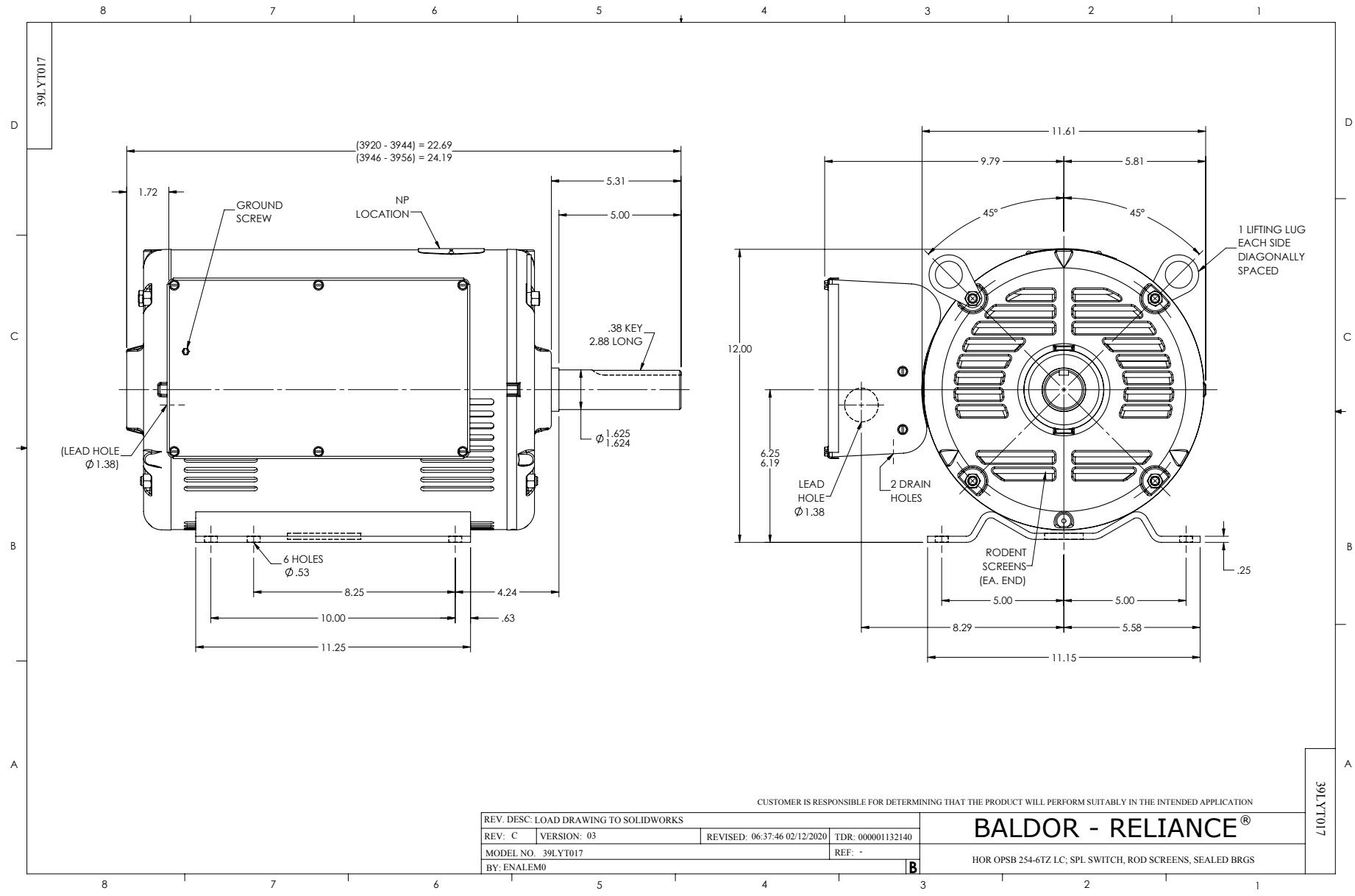
WINDING # 39WGX522

16 HP 1 PH 60 HZ 1760 RPM 230 V 3956LC

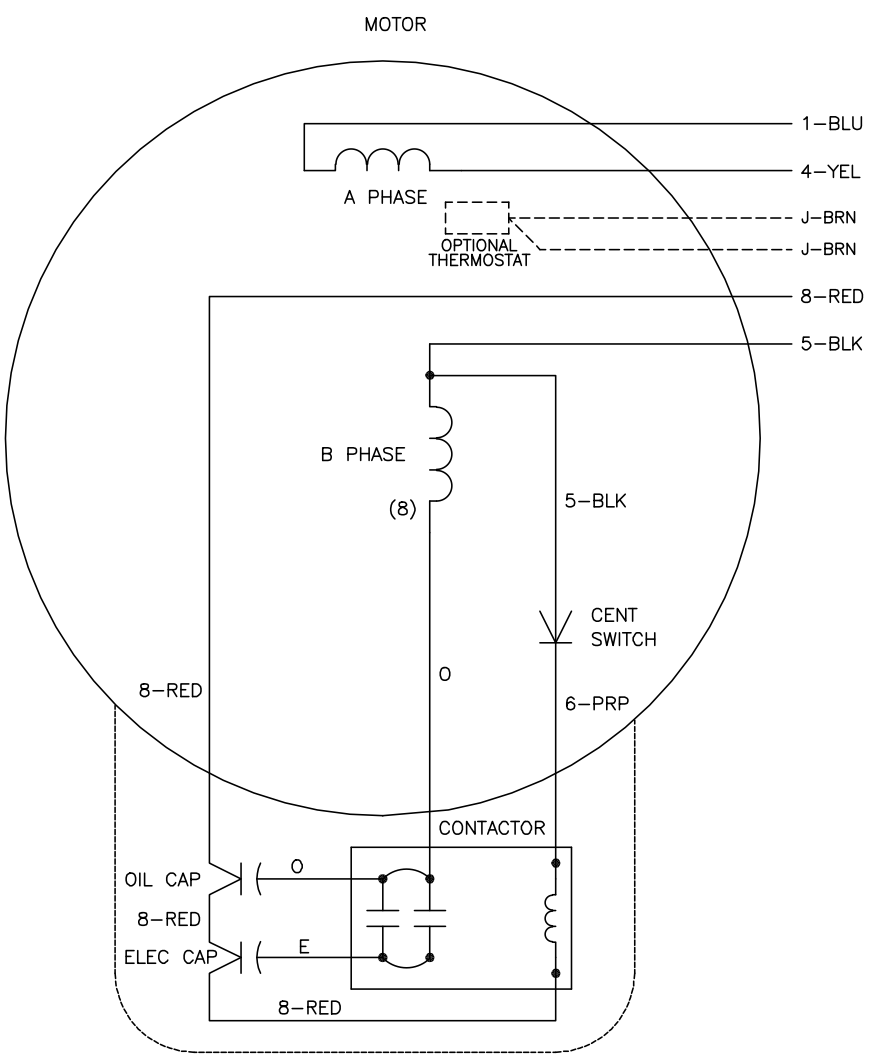
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=122 PU=64.6 LR=82.1 LRA=331




39LYT017
(3920 - 3944) = 22.69
(3946 - 3956) = 24.19
1.72
GROUND SCREW
NP LOCATION
5.31
5.00
.38 KEY
2.88 LONG
(LEAD HOLE Ø1.38)
Ø1.625
1.624
6 HOLES Ø.53
8.25
4.24
10.00
.63
11.25
11.61
9.79
5.81
45°
45°
1 LIFTING LUG EACH SIDE DIAGONALLY SPACED
12.00
6.25
6.19
LEAD HOLE Ø1.38
2 DRAIN HOLES
RODENT SCREENS (EA. END)
.25
5.00
5.00
8.29
5.58
11.15
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: C
VERSION: 03
REVISED: 06:37:46 02/12/2020
TDR: 000001132140
MODEL NO. 39LYT017
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR OPSB 254-6TZ LC; SPL SWITCH, ROD SCREENS, SEALED BRGS
39LYT017

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

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