ABB BALDOR RELIANCE

Customer information packet

FDL3912T

15HP, 1760RPM, 1PH, 60HZ, 256T, 3956LC, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	256T
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	15.000 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	UR
	CSA
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	58.000 A @ 230.0 V
	65.000 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	58.0 a

Part Detail

Revision	J
Type	AC
Mech. spec.	39E619
Base	
Status	PRD/A
Elec. spec.	39WGX905
Layout	39LYE619
Eff. date	02-08-2024
CD Diagram	CD1084
Poles	04
Leads	2#6 A PH,2#12 B PH
Proprietary	False
Created date	02-23-2017

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	E
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	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	24.56 IN
Power Factor	96
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
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	Shaft Slinger
Speed	1720 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
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1256L								
CAT.NO.	FDL3912T							
SPEC.	39E619X905G1							
HP	15							
VOLTS	208-230							
AMP	65-58							
RPM	1720							
FRAME	256T	**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	TEFC	**SN**						

Parts List

Part number	Description	Quantity
SA334612	SA 39E619X905G1	1.000 ea
RA322774	RA 39E619X905G1	1.000 ea
OC3050F09SP	CAPACITOR 50 MFD 370 VAC	2.000 ea
RE0045A12	CONTACTOR, 40 AMP, 2 POLE, 208-240 VAC	1.000 ea
EC1216D06	ELEC CAP, 216-259MFD, 330V, 2.06D X 4.38	4.000 ea
09FN2001A02	ALUM EXFN, 10.25 O.D., 1.380/1.378 BORE	1.000 ea
37CB3804A43	CONDUIT BOX MACH.	1.000 ea
37GS3015	GASKET, CAPAC BOX	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HA6003A47	CAPAC CLAMP	1.000 ea
HA7419	SPL BRACKET FOR MTG. CONTACT TO SINGLE P	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	7.000 ea
HA6003A45	CAPAC CLAMP - CLIP (WHITE ZINC PLATED)	2.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
WD1000D90	T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL	2.000 ea
WD1000A03	41531 AMP FLG.TERM,4M/REEL(2.5MIL)	30.000 ea
WD1000D90	T&B RC2577FM,90 DEG INSUL. FLAG TERMINAL	1.000 ea
39EP1100A75	SPL FREP ENCL TEFC W/STATIONARY SWITCH M	1.000 ea
HW4600A22	SEAL 1.375 X 2.062 X 0.313 SINGLE LIP	1.000 ea
HW4600C51	31X39X7.5MM FACE SEAL FOR 1.375 DIA. SH	1.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
39EP1101A47	PUEP ENCL LESS GREASER & RELIE	1.000 ea
HW4600B67	V-RING SLINGER 1.770 X 2.170 X .28 VITON	1.000 ea
HA3154A05	THRUBOLT STUD 3/8-16 X 16.875	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	8.000 ea
09FH4000A04	39 FH	1.000 ea
HA2001B08	SPL SPACER FOR AIR DEFLECTOR .50 O.D. X	3.000 ea
10XN2520K20	1/4-20 X 1.25" HX HD SCRWGRADE 5, ZI	3.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	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
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
SP5165	MODEL 39 DOUBLE ARM STATIONARY SWITCH	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	1.000 ea
NS2605	SWITCH INSULATOR 09 FRAME	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
80XN3816L08	3/8-16 X 1/2 SET SCREW W/NYLON PATCH	1.000 ea
MG1025C02	WILKOFAST SG, 787.105, TAN	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	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
40PA1000	PACKAGING GROUP	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

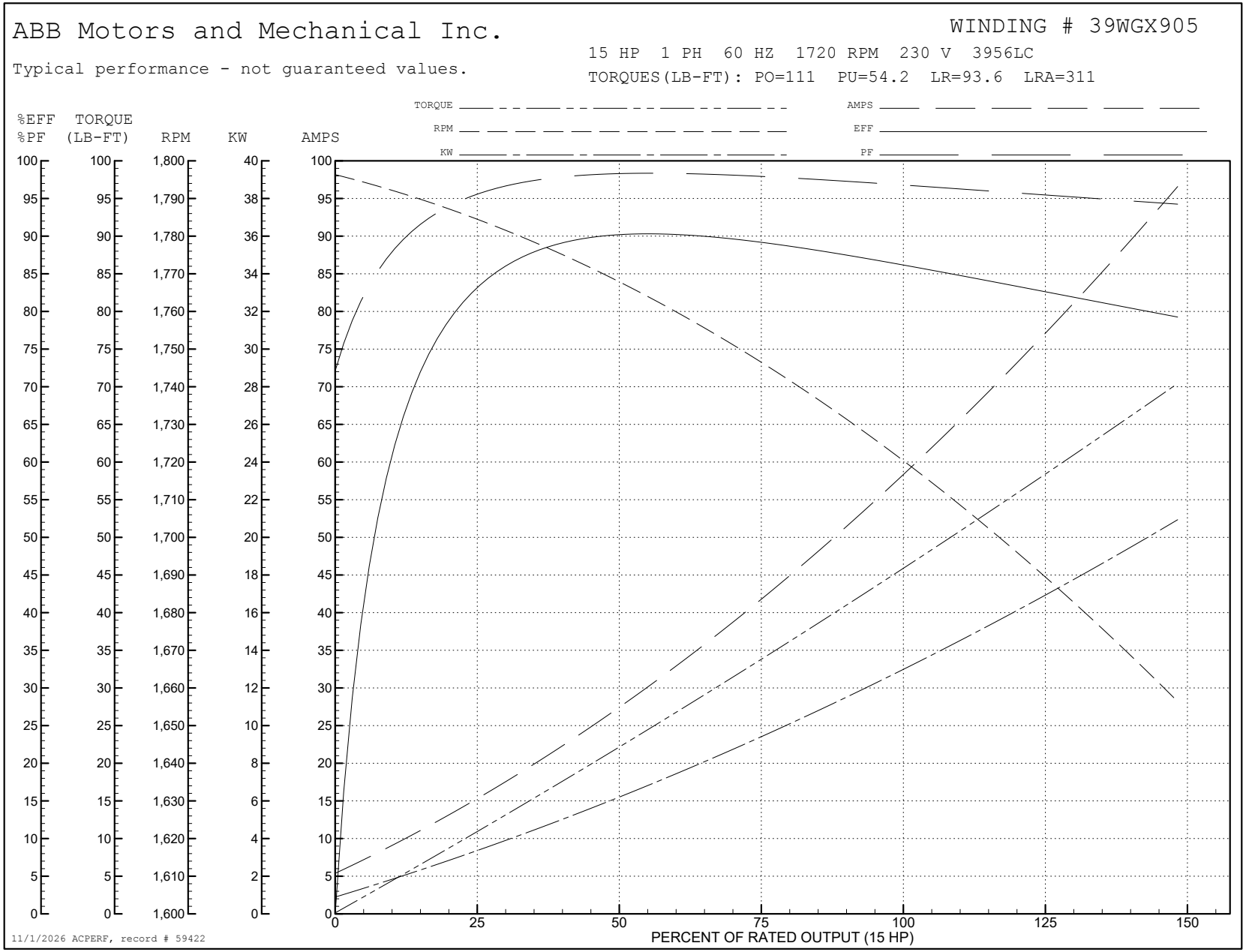
AC Induction Motor Performance Data
Record # 59422
Typical performance - not guaranteed values

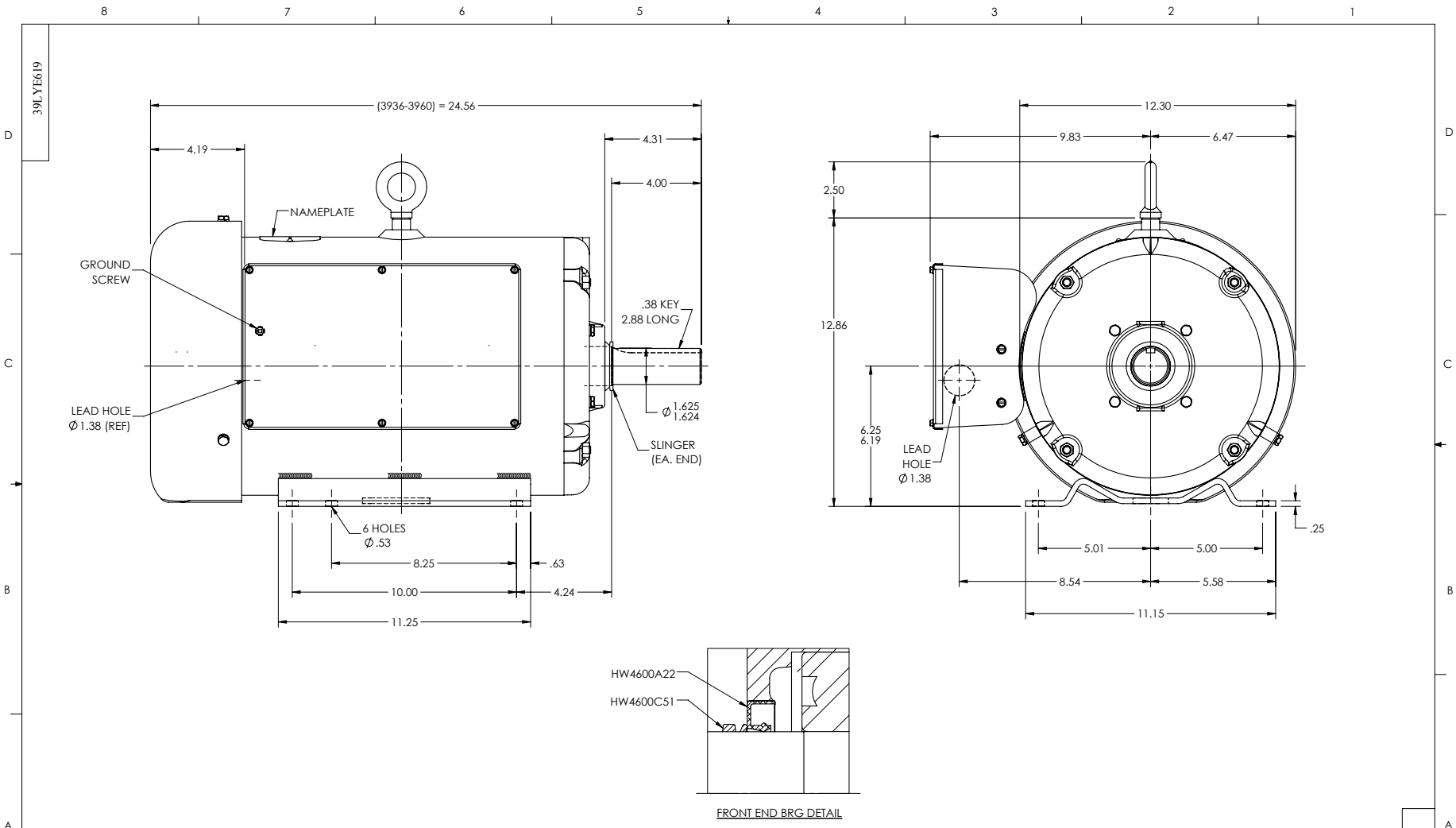
Winding: 39WGX905-R001	**Type:** 3956LC	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			15	**Full Load Torque**	45.6 LB-FT
Volts			208-230	**Start Configuration**	direct on line
Full Load Amps			65-58	**Breakdown Torque**	111 LB-FT
R.P.M.			1720	**Pull-up Torque**	54.2 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	93.6 LB-FT
NEMA Design Code	L	**KVA Code**	E	**Starting Current**	311 A
Service Factor (S.F.)			1	**No-load Current**	4.94 A
NEMA Nom. Eff.	86.5	**Power Factor**	96	**Line-line Res. @ 25ºC**	0.12074 Ω A Ph 0.37139 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	100°C

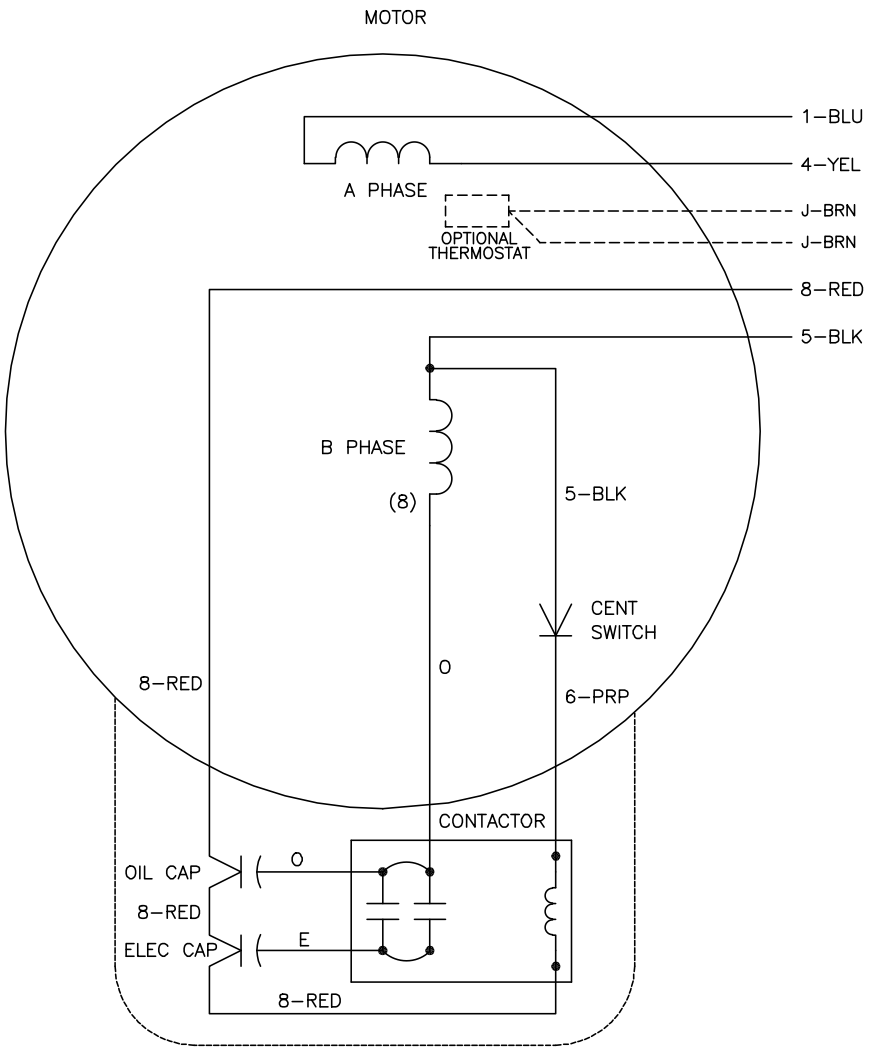
Load Characteristics 230 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	96	98	98	97	96	94
Efficiency	81	88.4	88.8	87	83.5	78.8
Speed	1783.3	1766.1	1746.3	1722.4	1693	1654.6
Line amperes	15.7	28	42	57.5	75.3	97.3


ABB Motors and Mechanical Inc.
WINDING # 39WGX905
15 HP 1 PH 60 HZ 1720 RPM 230 V 3956LC
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=111 PU=54.2 LR=93.6 LRA=311
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
11/1/2026 ACPERF, record # 59422
PERCENT OF RATED OUTPUT (15 HP)


39LYE619
(3936-3960) = 24.56
4.19
4.31
4.00
NAMEPLATE
GROUND SCREW
.38 KEY
2.88 LONG
LEAD HOLE
Ø 1.38 (REF)
Ø 1.625
1.624
SLINGER
(EA. END)
6 HOLES
Ø .53
8.25
.63
10.00
4.24
11.25
12.30
9.83
6.47
2.50
12.86
6.25
6.19
LEAD
HOLE
Ø 1.38
.25
5.01
5.00
8.54
5.58
11.15
HW4600A22
HW4600C51
FRONT END BRG DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: B
VERSION: 02
REVISED: 10:28:45 02/10/2020
TDR: 000001132140
MODEL NO. 39LYE619
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR TEFC 254-6T LC W/SLD BRGS, LIP SEAL ODE, ROTATING SWITCH
39LYE619

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