ABB BALDOR RELIANCE

Customer information packet

GSL3509M

1.5HP, 1750RPM, 1PH, 60HZ, 56Z, 3522LC, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56Z
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	1.500 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	6.100 A @ 230.0 V
	6.700 A @ 208.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.1 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	A
Type	AC
Mech. spec.	35G630
Base	
Status	PRD/A
Elec. spec.	35WGK596
Layout	35LYG630
Eff. date	02-03-2025
CD Diagram	CD0370
Poles	04
Leads	2#16 A PH,3#18 B&J,2#18 P
Proprietary	False
Created date	12-13-2024

KVA Code	H
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	2 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.29 IN
Power Factor	98
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Do Not Use
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

	NP1280L									
CAT.NO.	GSL3509M									
SPEC.	35G630K596G1									
HP	1.5									
VOLTS	208-230									
AMP	6.7-6.1									
RPM	1750									
FRAME	56Z	**HZ**	60		**PH**	1				
SER.F.	1.15	**CODE**	H	**DES**	L	**CL**	F			
NEMA-NOM-EFF	80	**PF**	98							
RATING	40C AMB-CONT									
CC										
DE	6205	**ODE**	6203							
ENCL	TEFC	**SN**								

AC Induction Motor Performance Data
Record # 110560
Typical performance - not guaranteed values

Winding: 35WGK596-R001	**Type:** 3522LC	**Enclosure:** TEFC

Nameplate Data			**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		1.5	**Full Load Torque**	4.487 LB-FT
Volts		208-230	**Start Configuration**	direct on line
Full Load Amps		6.7-6.1	**Breakdown Torque**	11.1 LB-FT
R.P.M.		1750	**Pull-up Torque**	8.21 LB-FT
Hz	60 **Phase**	1	**Locked-rotor Torque**	9.59 LB-FT
NEMA Design Code	L **KVA Code**	H	**Starting Current**	46.3 A
Service Factor (S.F.)		1.15	**No-load Current**	2.44 A
NEMA Nom. Eff.	80 **Power Factor**	98	**Line-line Res. @ 25ºC**	2.5587 Ω A Ph 4.8083 Ω B Ph
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	77°C
S.F. Amps			**Temp. Rise @ S.F. Load**	88°C

Load Characteristics 230 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	81	92	96	98	98	98	98
Efficiency	52.4	71.1	78	81.2	81.2	79.2	81.2
Speed	1787.9	1777.1	1765.6	1751.6	1735.9	1714.4	1742
Line amperes	2.84	3.7	4.85	6.14	7.59	9.34	7.01

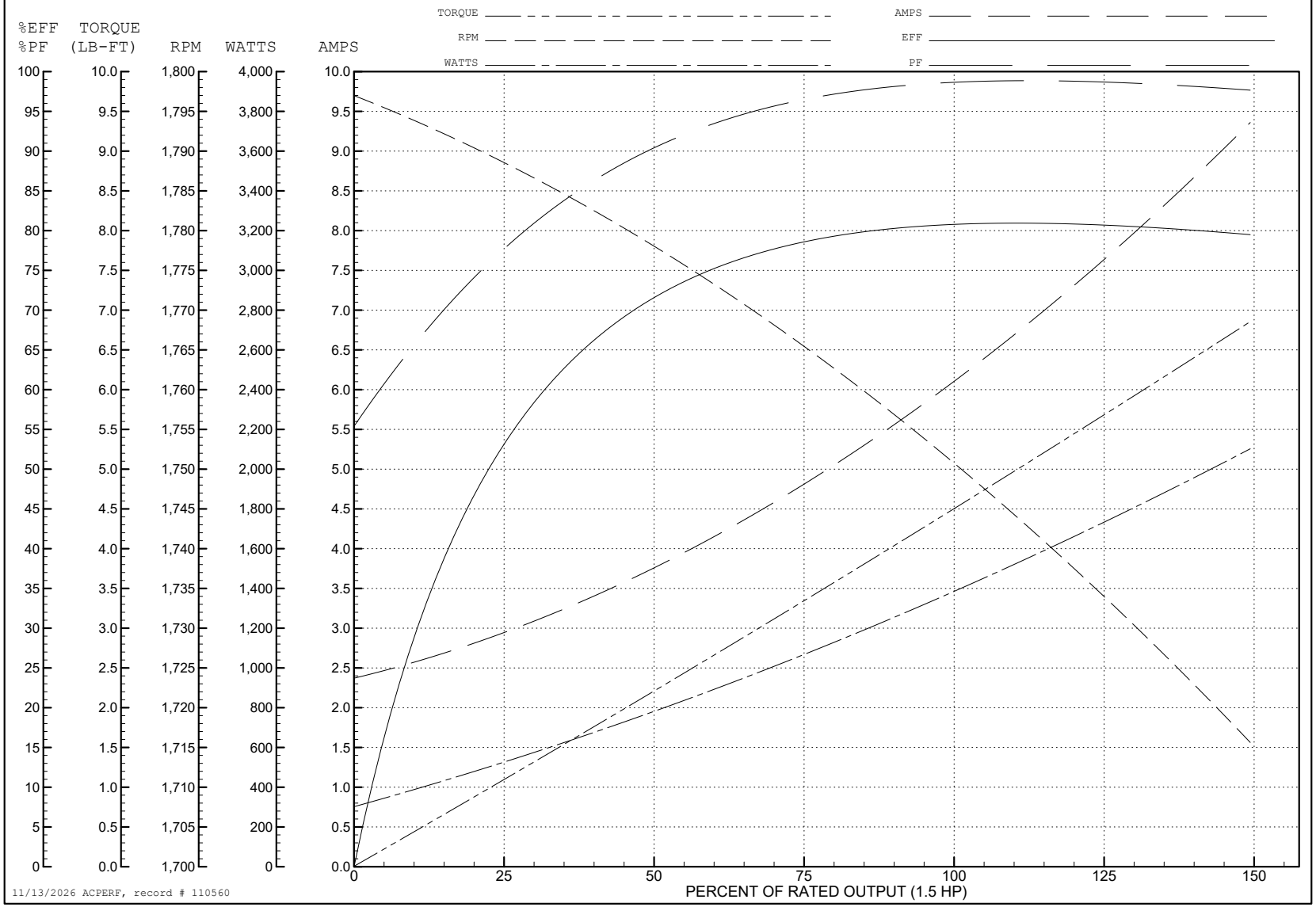
ABB Motors and Mechanical Inc.

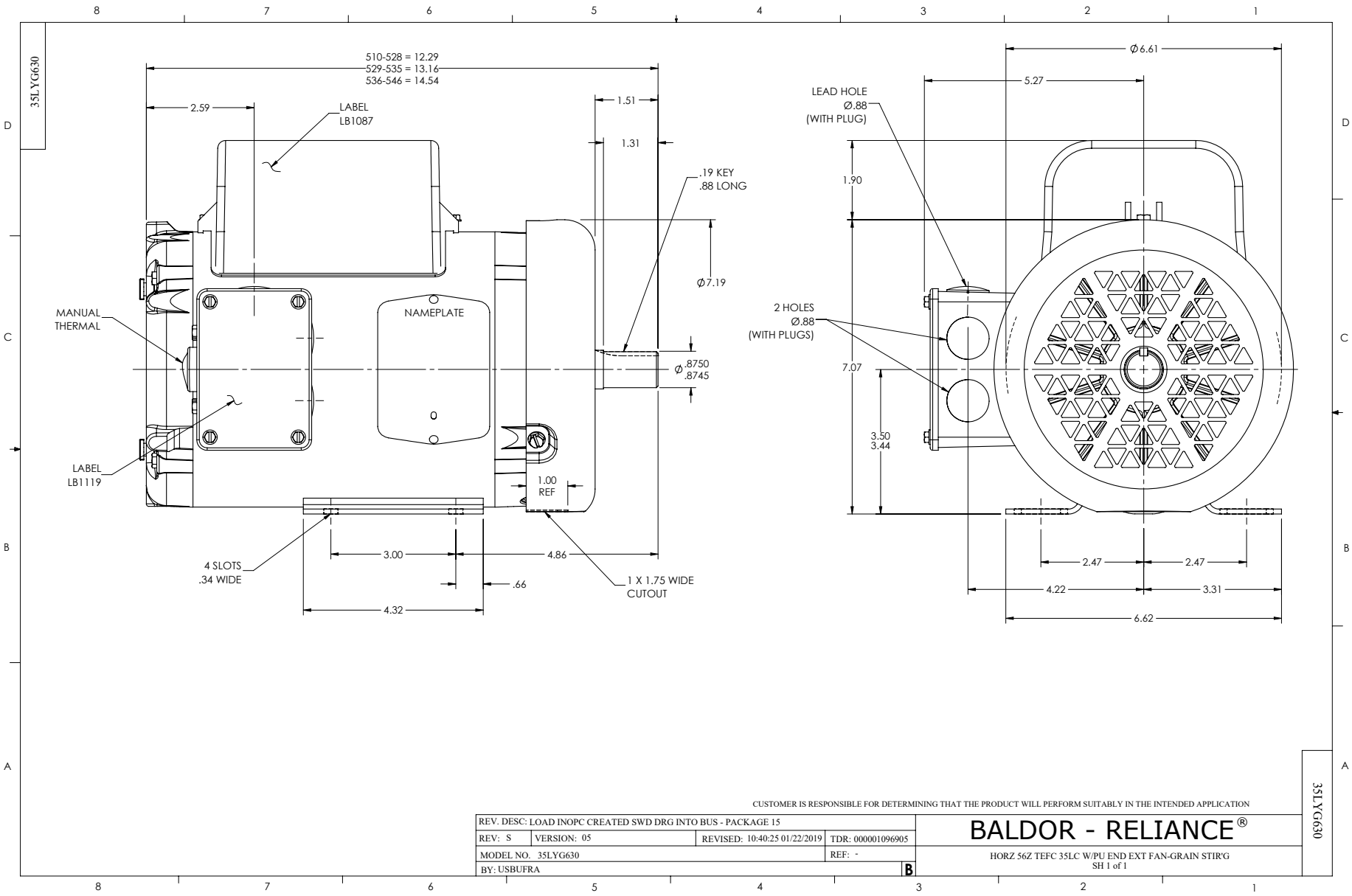
WINDING # 35WGK596

1.5 HP 1 PH 60 HZ 1750 RPM 230 V 3522LC

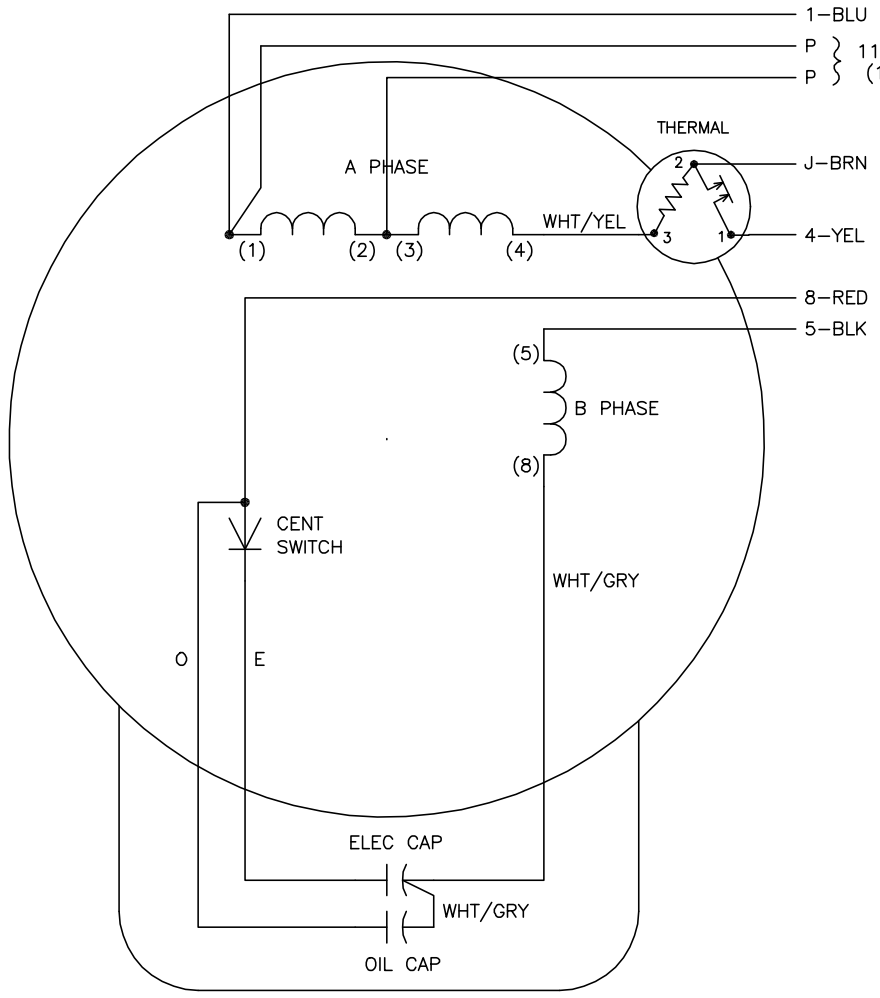
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=11.1 PU=8.21 LR=9.59 LRA=46.3




35LYG630
510-528 = 12.29
529-535 = 13.16
536-546 = 14.54
2.59
LABEL
LB1087
1.51
1.31
.19 KEY
.88 LONG
Ø7.19
MANUAL
THERMAL
NAMEPLATE
Ø .8750
.8745
LABEL
LB1119
1.00
REF
4 SLOTS
.34 WIDE
3.00
4.86
.66
4.32
1 X 1.75 WIDE
CUTOUT
Ø6.61
5.27
LEAD HOLE
Ø.88
(WITH PLUG)
1.90
2 HOLES
Ø.88
(WITH PLUGS)
7.07
3.50
3.44
2.47
2.47
4.22
3.31
6.62
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 15
REV: S
VERSION: 05
REVISED: 10:40:25 01/22/2019
TDR: 000001096905
MODEL NO. 35LYG630
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 56Z TEFC 35LC W/PU END EXT FAN-GRAIN STIR'G
SH 1 of 1
35LYG630

CD0370



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

NOTES:

1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: F	VERSION: 01	TDR: 000000373039	
CD0370	FILE: \AAA\00020\808	REVISED: 11:51:15 08/11/2005	TYPE LC, SV, REV, THERMAL, 7LDS, 1/2 LV ACCESS TAP
	MTL: –	BY: ENJOEP0	

CD0370