ABB BALDOR RELIANCE

Customer information packet

IR3510M

1HP, 1750RPM, 1PH, 60HZ, 56, 3528L, TEFC, F1, N
Class - None
Division - Not Applicable

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11/18/2026 12:20:23 PM

Specifications

Enclosure	TEFC
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	1.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 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	6.500 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	65.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs

Part Detail

Revision	-
Type	AC
Mech. spec.	35K634
Base	
Status	PRD/A
Elec. spec.	35WGK934
Layout	35LYK634
Eff. date	12-02-2024
CD Diagram	CD0045
Poles	04
Leads	8#18
Proprietary	False
Created date	11-14-2024

Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	8 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.23 IN
Power Factor	72
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 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	None
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.	IR3510M								
SPEC.	35K634K934								
HP	1								
VOLTS	230								
AMP	6.5								
RPM	1750								
FRAME	56	**HZ**	60		**PH**	1			
SER.F.	1.15	**CODE**	L	**DES**	L	**CL**	F		
NEMA-NOM-EFF	65	**PF**	72						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							

Accessories

Part number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

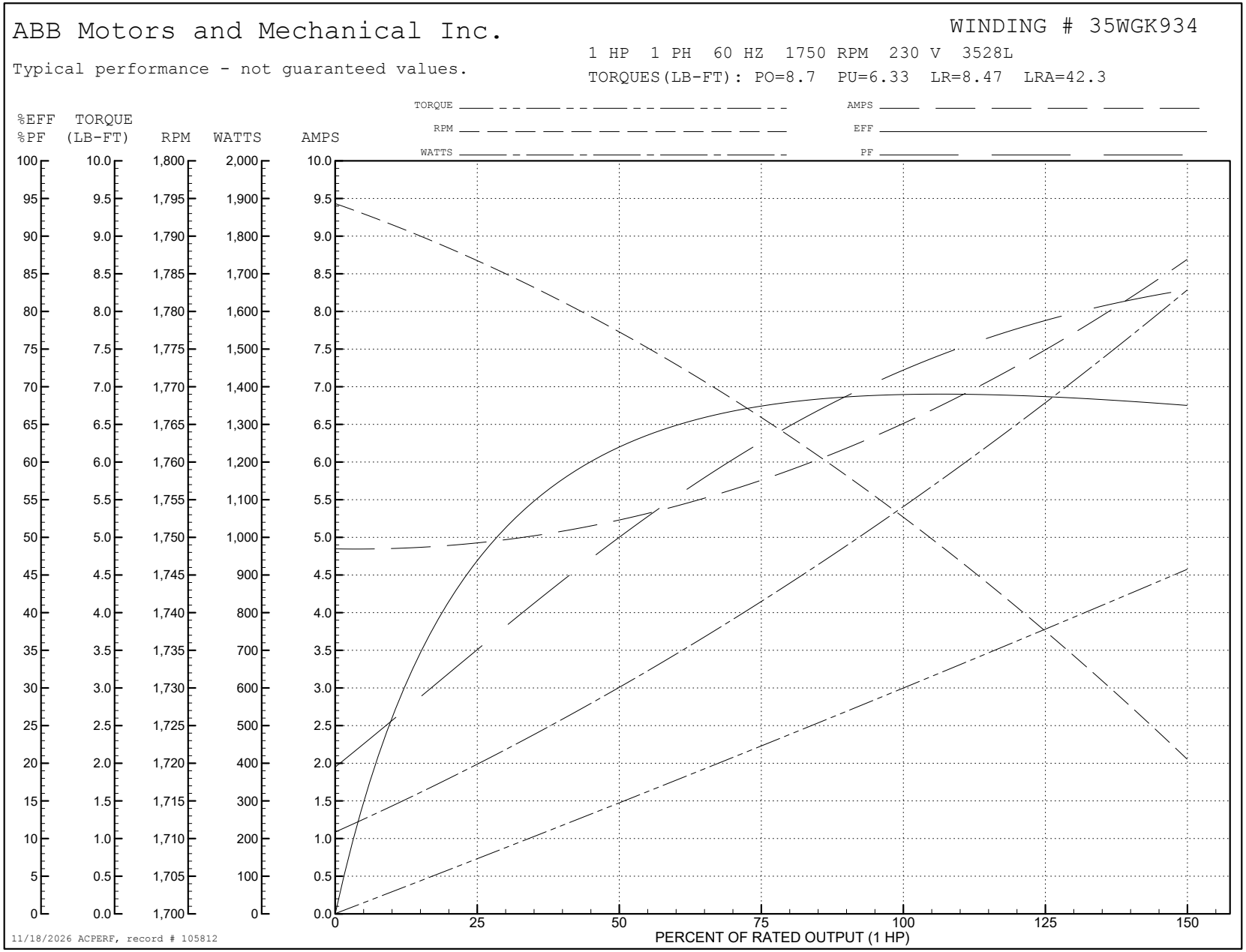
AC Induction Motor Performance Data
Record # 105812
Typical performance - not guaranteed values

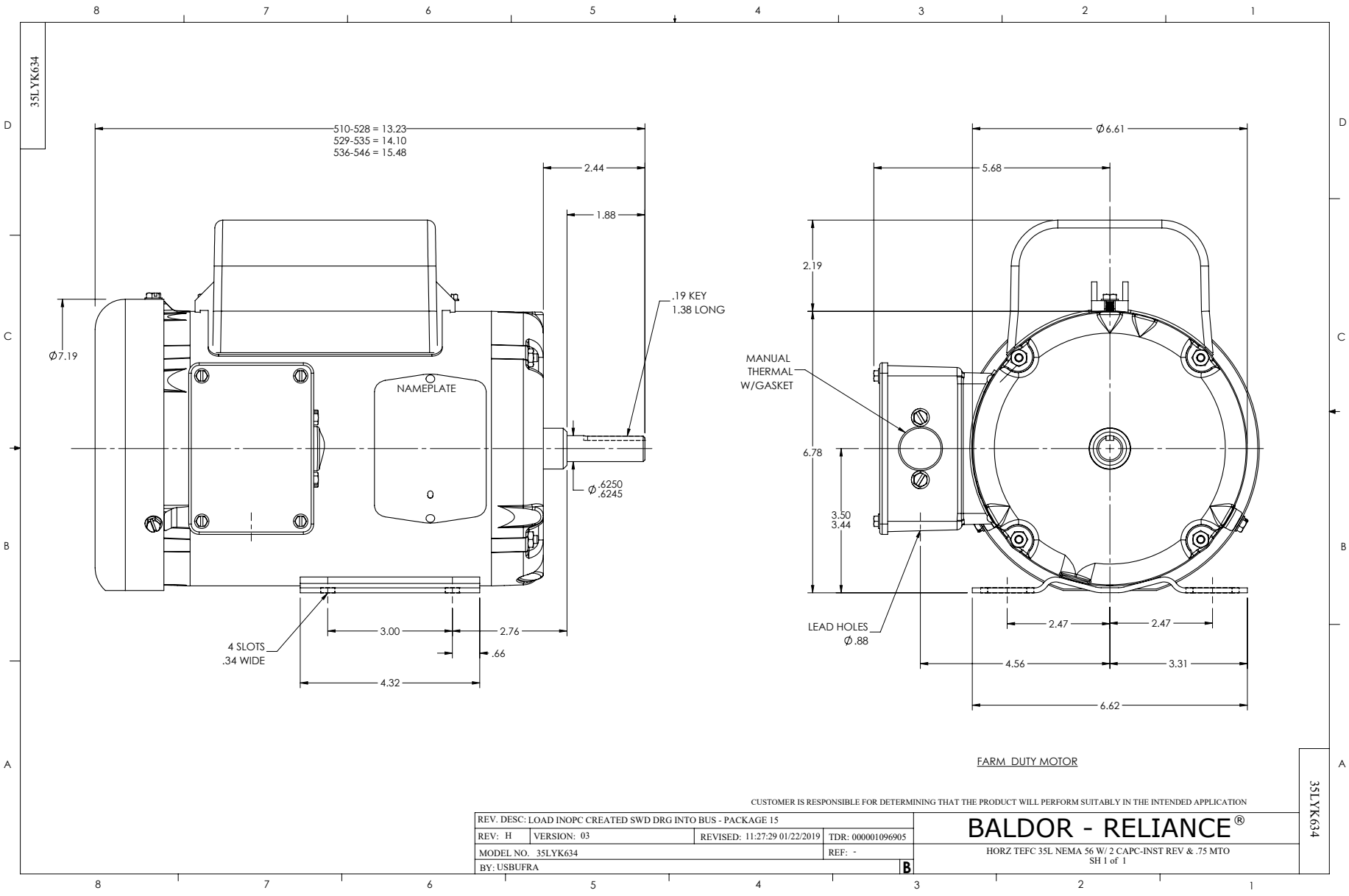
Winding: 35WGK934-R001	**Type:** 3528L	**Enclosure:** TEFC

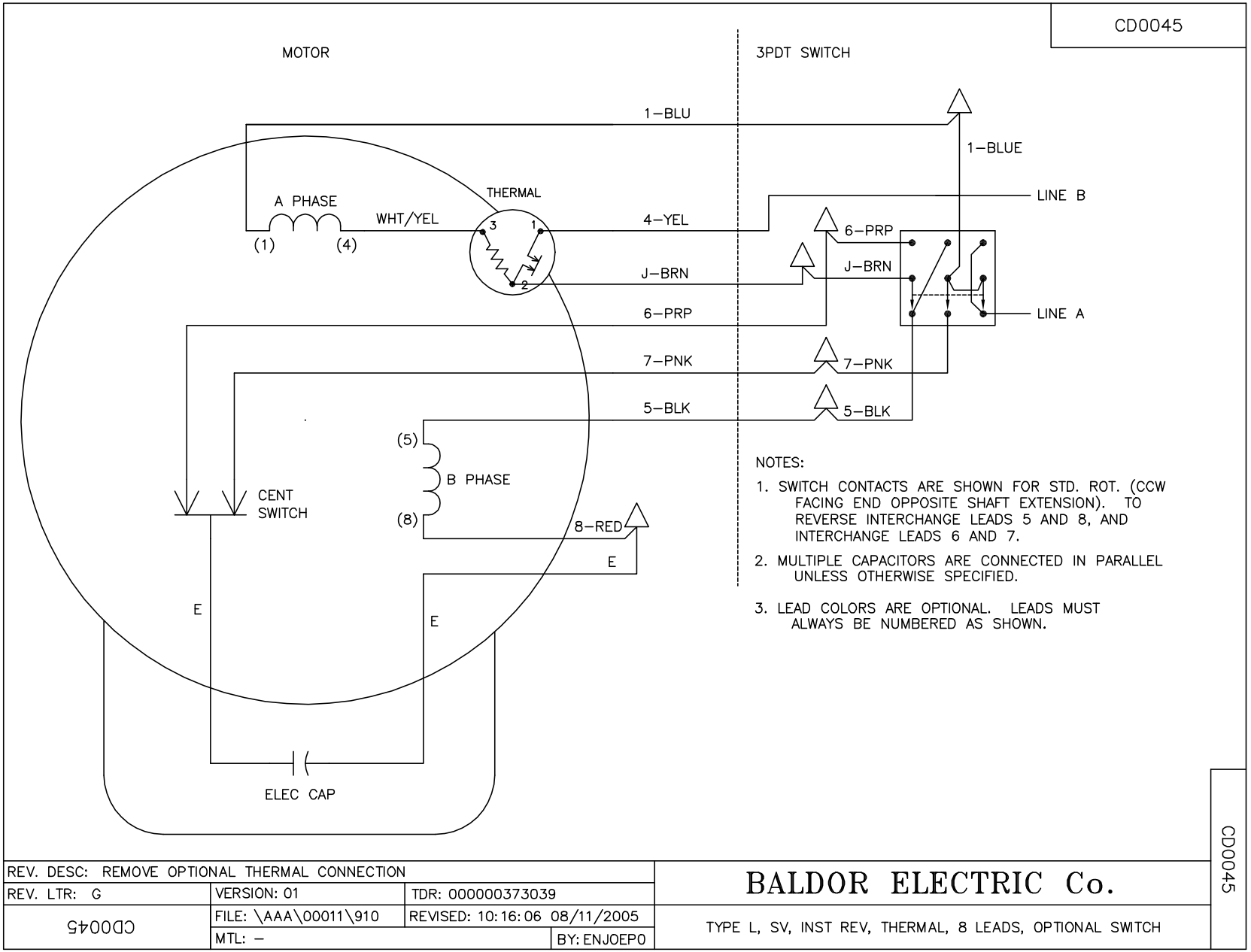
Nameplate Data				**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	2.983 LB-FT
Volts			230	**Start Configuration**	direct on line
Full Load Amps			6.7	**Breakdown Torque**	8.7 LB-FT
R.P.M.			1750	**Pull-up Torque**	6.33 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	8.47 LB-FT
NEMA Design Code	L	**KVA Code**	L	**Starting Current**	42.3 A
Service Factor (S.F.)			1.15	**No-load Current**	4.84 A
NEMA Nom. Eff.	65	**Power Factor**	73	**Line-line Res. @ 25ºC**	2.5909 Ω A Ph 7.3069 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	79°C
S.F. Amps				**Temp. Rise @ S.F. Load**	92°C

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	50	62	72	78	83	76
Efficiency	46	61.2	67.4	69.4	69	67.3	69.2
Speed	1786.4	1776.7	1766.1	1753.3	1738.8	1719.7	1745
Line amperes	4.93	5.23	5.75	6.49	7.47	8.7	7.08


ABB Motors and Mechanical Inc.
WINDING # 35WGK934
Typical performance - not guaranteed values.
1 HP 1 PH 60 HZ 1750 RPM 230 V 3528L
TORQUES(LB-FT): PO=8.7 PU=6.33 LR=8.47 LRA=42.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/18/2026 ACPERF, record # 105812


35LYK634
510-528 = 13.23
529-535 = 14.10
536-546 = 15.48
2.44
1.88
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø .6250
Ø .6245
3.00
2.76
.66
4.32
4 SLOTS
.34 WIDE
Ø6.61
5.68
2.19
MANUAL
THERMAL
W/GASKET
6.78
3.50
3.44
LEAD HOLES
Ø .88
2.47
2.47
4.56
3.31
6.62
FARM DUTY MOTOR
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: H
VERSION: 03
REVISED: 11:27:29 01/22/2019
TDR: 000001096905
MODEL NO. 35LYK634
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ TEFC 35L NEMA 56 W/ 2 CAPC-INST REV & .75 MTO
SH 1 of 1
35LYK634


CD0045
MOTOR
3PDT SWITCH
1–BLU
1–BLUE
LINE B
A PHASE
(1)
(4)
WHT/YEL
THERMAL
3
1
2
4–YEL
6–PRP
J–BRN
J–BRN
6–PRP
LINE A
7–PNK
7–PNK
5–BLK
5–BLK
(5)
B PHASE
(8)
CENT
SWITCH
8–RED
E
E
E
ELEC CAP
NOTES:
1. SWITCH CONTACTS ARE SHOWN FOR STD. ROT. (CCW FACING END OPPOSITE SHAFT EXTENSION). TO REVERSE INTERCHANGE LEADS 5 AND 8, AND INTERCHANGE LEADS 6 AND 7.
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
REV. LTR: G
VERSION: 01
TDR: 000000373039
FILE: \AAA\00011\910
REVISED: 10:16:06 08/11/2005
MTL: –
BY: ENJOEPO
BALDOR ELECTRIC Co.
TYPE L, SV, INST REV, THERMAL, 8 LEADS, OPTIONAL SWITCH
CD0045
CD0045