ABB BALDOR RELIANCE

Customer information packet

FDL3510M

1HP, 1740RPM, 1PH, 60HZ, 56H, 3524L, TEFC, F1, N
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/20/2026 8:07:51 AM

Specifications

Enclosure	TEFC
Frame	56H
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	115.0 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	12.600 A @ 115.0 V
	6.300 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	68.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	6.3 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	G
Type	AC
Mech. spec.	35E2559
Base	
Status	PRD/A
Elec. spec.	35WGG385
Layout	35LYE2559
Eff. date	09-24-2025
CD Diagram	CD0269
Poles	04
Leads	4#16 A&J,2#18 B PH,1#14 #4TH
Proprietary	False
Created date	07-21-2022

KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	4 @ 16 AWG, A&J
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3524L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.91 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
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	Shaft Slinger
Speed	1740 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.	FDL3510M							
SPEC.	35E2559G385G1							
HP	1							
VOLTS	115/230							
AMP	12.6/6.3							
RPM	1740							
FRAME	56H	**HZ**	60		**PH**	1		
SER.F.	1.15	**CODE**	L	**DES**	L	**CL**	F	
NEMA-NOM-EFF	68	**PF**	74					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						

Accessories

Part number	Description	Multiplier
35-3300FD	C FACE KIT FARM DUTY 143-5TC ENCL, 6205	A8
35EP1506A01SP	D-FLANGE KIT	A8

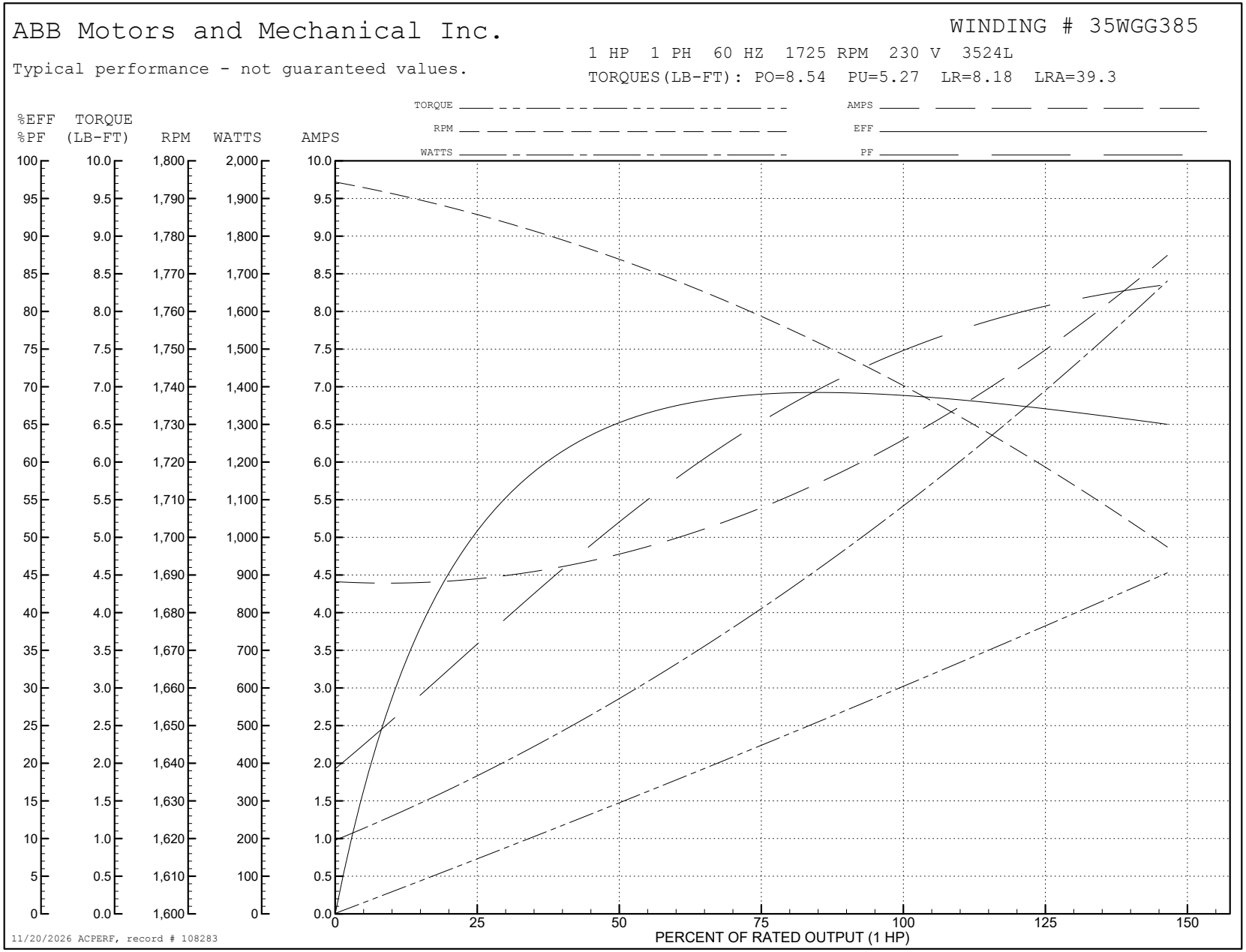
AC Induction Motor Performance Data
Record # 108283
Typical performance - not guaranteed values

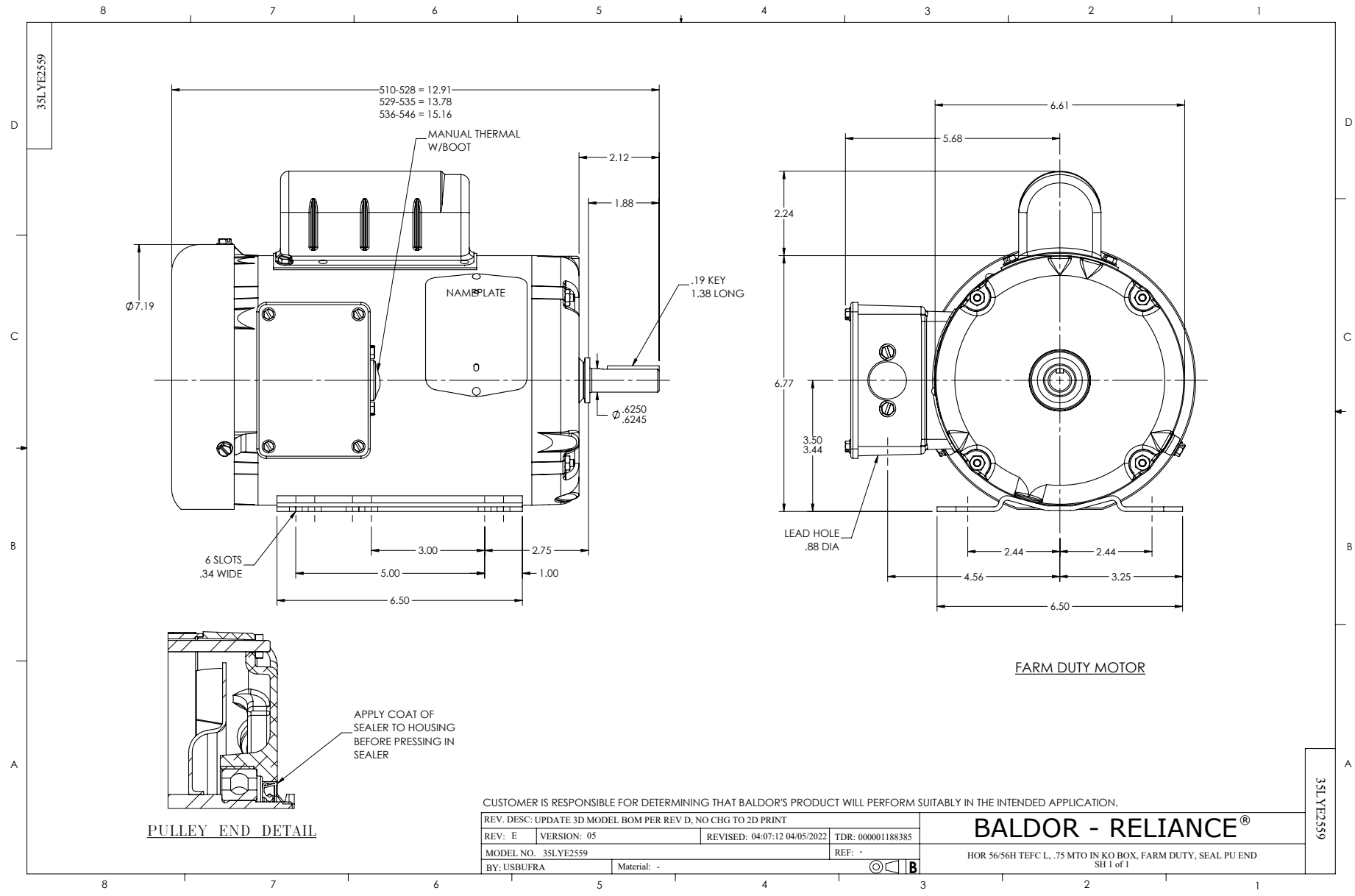
Winding: 35WGG385-R001	**Type:** 3524L	**Enclosure:** TEFC

Nameplate Data				**230 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3.019 LB-FT
Volts			115/230	**Start Configuration**	direct on line
Full Load Amps			13/6.5	**Breakdown Torque**	8.54 LB-FT
R.P.M.			1725	**Pull-up Torque**	5.27 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	8.18 LB-FT
NEMA Design Code	L	**KVA Code**	K	**Starting Current**	39.3 A
Service Factor (S.F.)			1.15	**No-load Current**	4.41 A
NEMA Nom. Eff.	70	**Power Factor**	69	**Line-line Res. @ 25ºC**	2.9123 Ω A Ph 2.3517 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	76°C
S.F. Amps				**Temp. Rise @ S.F. Load**	91°C

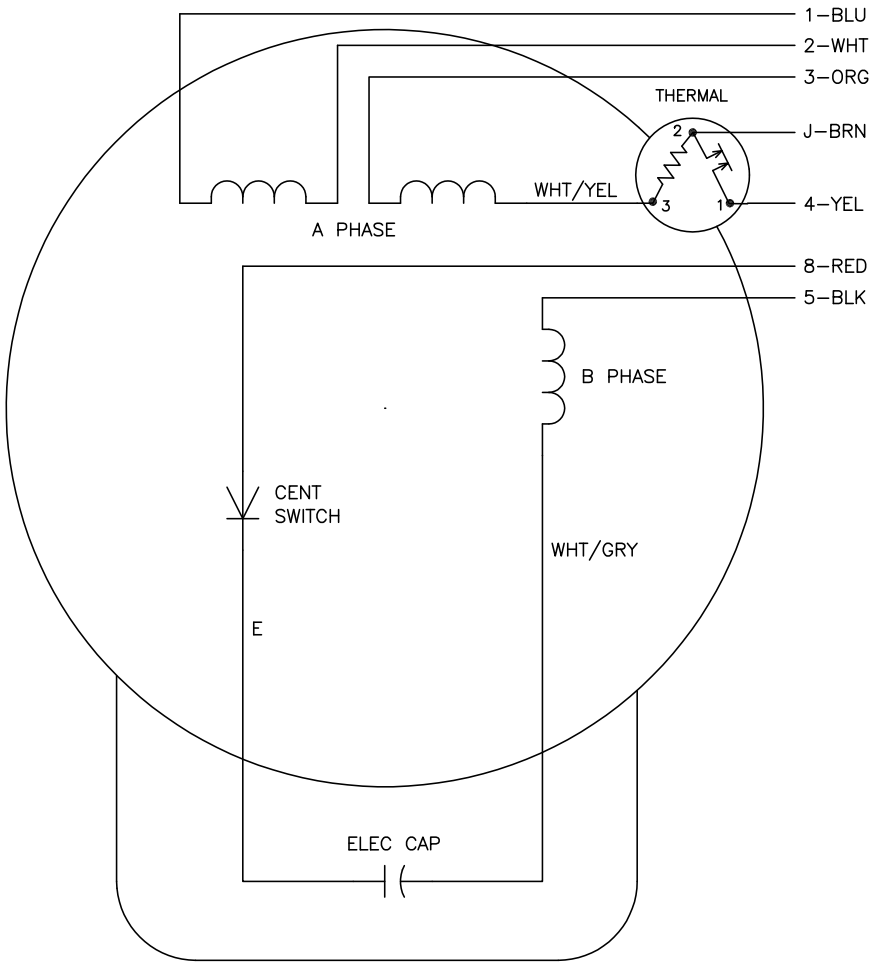
Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	53	66	74	80	84	78
Efficiency	50.9	64	68.9	69.6	67.9	64.4	68.6
Speed	1783.6	1771.8	1757.4	1741.9	1721.6	1695.1	1730
Line amperes	4.44	4.81	5.47	6.29	7.41	8.78	6.96


ABB Motors and Mechanical Inc.
WINDING # 35WGG385
1 HP 1 PH 60 HZ 1725 RPM 230 V 3524L
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=8.54 PU=5.27 LR=8.18 LRA=39.3
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
11/20/2026 ACPERF, record # 108283


35LYE2559
510-528 = 12.91
529-535 = 13.78
536-546 = 15.16
MANUAL THERMAL W/BOOT
2.12
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø .6250
.6245
6 SLOTS
.34 WIDE
3.00
2.75
5.00
1.00
6.50
6.61
5.68
2.24
6.77
3.50
3.44
LEAD HOLE
.88 DIA
2.44
2.44
4.56
3.25
6.50
FARM DUTY MOTOR
APPLY COAT OF SEALER TO HOUSING BEFORE PRESSING IN SEALER
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.
REV. DESC: UPDATE 3D MODEL BOM PER REV D, NO CHG TO 2D PRINT
REV: E
VERSION: 05
REVISED: 04:07:12 04/05/2022
TDR: 000001188385
MODEL NO. 35LYE2559
REF: -
BY: USBUFRA
Material: -
BALDOR - RELIANCE®
HOR 56/56H TEFC L, .75 MTO IN KO BOX, FARM DUTY, SEAL PU END
SH 1 of 1
35LYE2559

CD0269



	LINE A	LINE B	JOIN	JOIN
HIGH STD	1,8	4	2,3,5	J
HIGH OPP	1,5	4	2,3,8	J
LOW STD	1,3,8	4	–	2,J,5
LOW OPP	1,3,5	4	–	2,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: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 04/08/99 1:07	TDR: 0178636
CD0269		FILE: AAA00007421	MDL: –
		MTL: –	TYPE L, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD

CD0269