



---

# Customer information packet

## FDL3510M

1HP, 1740RPM, 1PH, 60HZ, 56H, 3524L, TEFC, F1, N

Class - None

Division - Not Applicable

## 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
Auxillary Box	No Auxillary Box
Auxillary 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	E
Type	AC
Mech. spec.	35E2559
Base	
Status	PRD/A
Elec. spec.	35WGG385
Layout	35LYE2559
Eff. date	12-05-2024
CD Diagram	CD0269
Poles	04
Leads	4#16 A&J,2#18 B PH,1#14 #4TH
Proprietary	False
Created date	07-21-2022

<b>KVA Code</b>	L
<b>Lifting Lugs</b>	No Lifting Lugs
<b>Locked Bearing Indicator</b>	No Locked Bearing
<b>Motor Lead Quantity/Wire Size</b>	4 @ 16 AWG, A&J
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	3524L
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	12.91 IN
<b>Power Factor</b>	74
<b>Product Family</b>	General Purpose
<b>Pulley End Bearing Type</b>	Sealed Bearing
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	0.625 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	1740 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor
<b>Winding Thermal 1</b>	Manual Thermal Overload
<b>Winding Thermal 1 Location</b>	KO
<b>Winding Thermal 2</b>	None

**Nameplate**

<b>NP1280L</b>									
<b>CAT.NO.</b>	FDL3510M								
<b>SPEC.</b>	35E2559G385G1								
<b>HP</b>	1								
<b>VOLTS</b>	115/230								
<b>AMP</b>	12.6/6.3								
<b>RPM</b>	1740								
<b>FRAME</b>	56H	<b>HZ</b>	60	<b>PH</b>	1				
<b>SER.F.</b>	1.15	<b>CODE</b>	L	<b>DES</b>	L	<b>CL</b>	F		
<b>NEMA-NOM-EFF</b>	68	<b>PF</b>	74						
<b>RATING</b>	40C AMB-CONT								
<b>CC</b>									
<b>DE</b>	6205	<b>ODE</b>	6203						
<b>ENCL</b>	TEFC	<b>SN</b>							

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
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

<b>Winding: 35WGG385-R001</b>		<b>Type: 3524L</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>230 V, 60 Hz: High Voltage Connection</b>		
<b>Rated Output (HP)</b>	1		<b>Full Load Torque</b>	3.019 LB-FT	
<b>Volts</b>	115/230		<b>Start Configuration</b>	direct on line	
<b>Full Load Amps</b>	13/6.5		<b>Breakdown Torque</b>	8.54 LB-FT	
<b>R.P.M.</b>	1725		<b>Pull-up Torque</b>	5.27 LB-FT	
<b>Hz</b>	60	<b>Phase</b>	1	<b>Locked-rotor Torque</b>	8.18 LB-FT
<b>NEMA Design Code</b>	L	<b>KVA Code</b>	K	<b>Starting Current</b>	39.3 A
<b>Service Factor (S.F.)</b>	1.15		<b>No-load Current</b>	4.41 A	
<b>NEMA Nom. Eff.</b>	70	<b>Power Factor</b>	69	<b>Line-line Res. @ 25°C</b>	2.9123 Ω A Ph 2.3517 Ω B Ph
<b>Rating - Duty</b>	40C AMB-CONT		<b>Temp. Rise @ Rated Load</b>		

**Load Characteristics 230 V, 60 Hz, 1 HP**

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

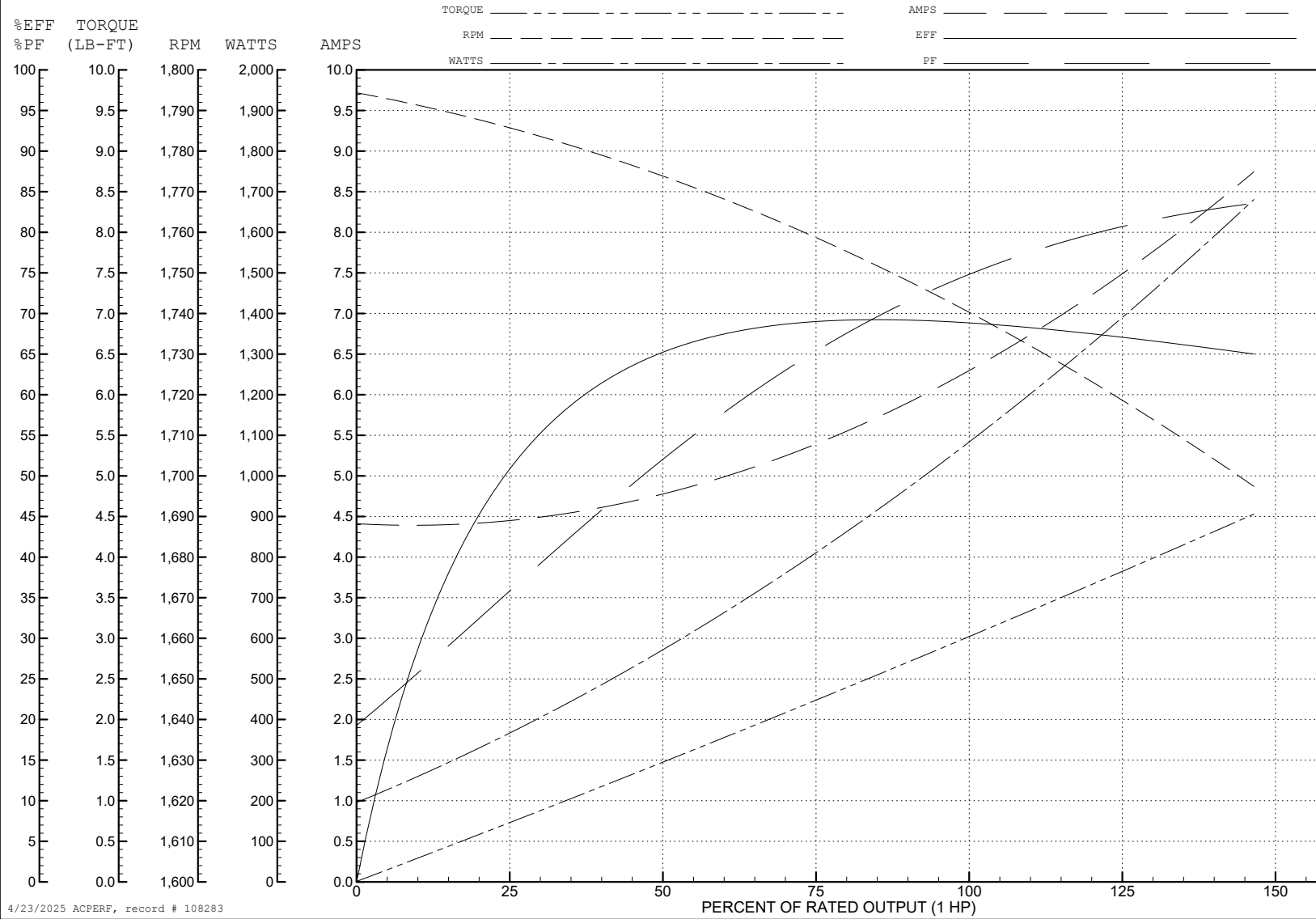
ABB Motors and Mechanical Inc.

WINDING # 35WGG385

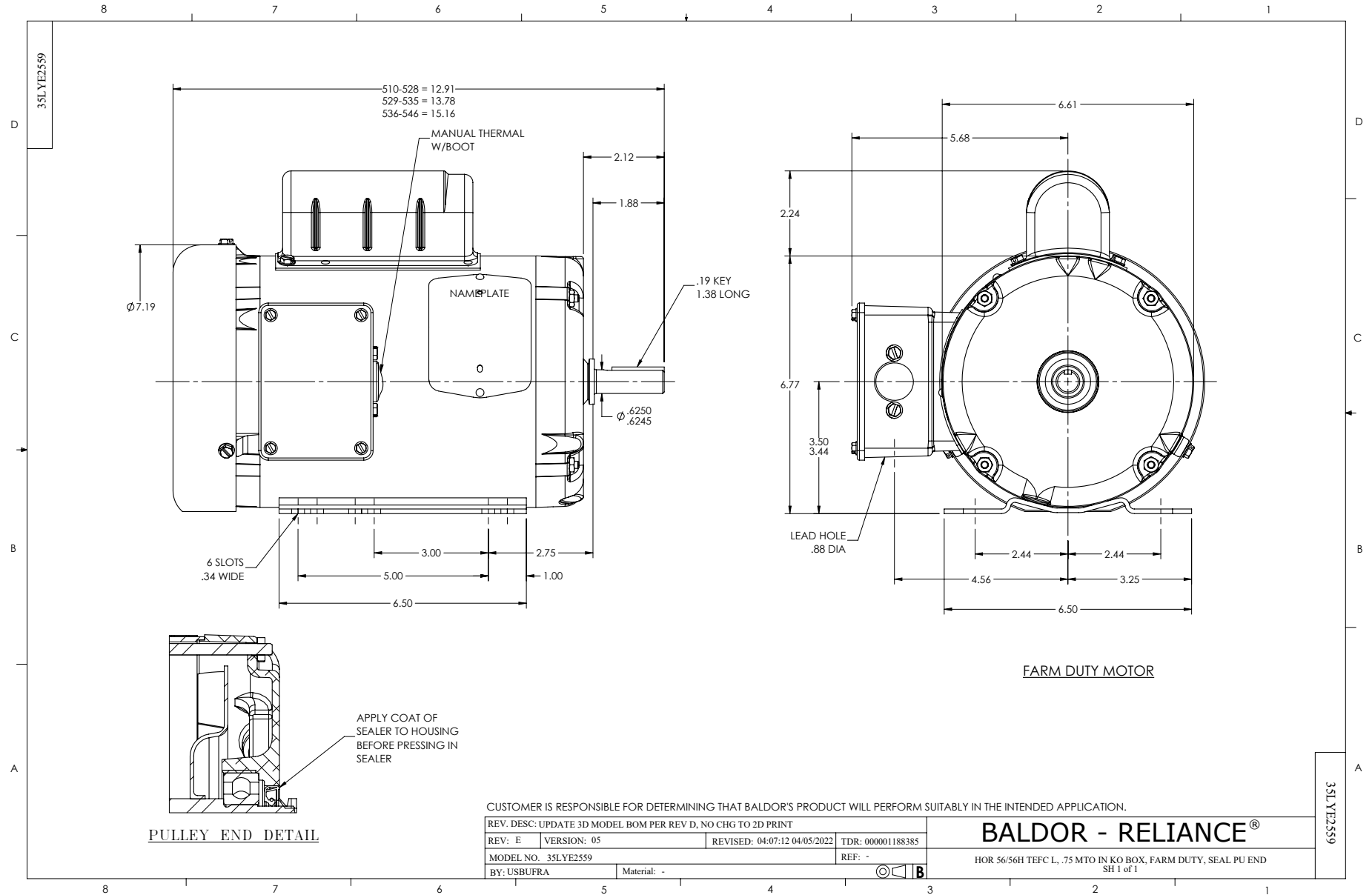
Typical performance - not guaranteed values.

1 HP 1 PH 60 HZ 1725 RPM 230 V 3524L

TORQUES (LB-FT): PO=8.54 PU=5.27 LR=8.18 LRA=39.3

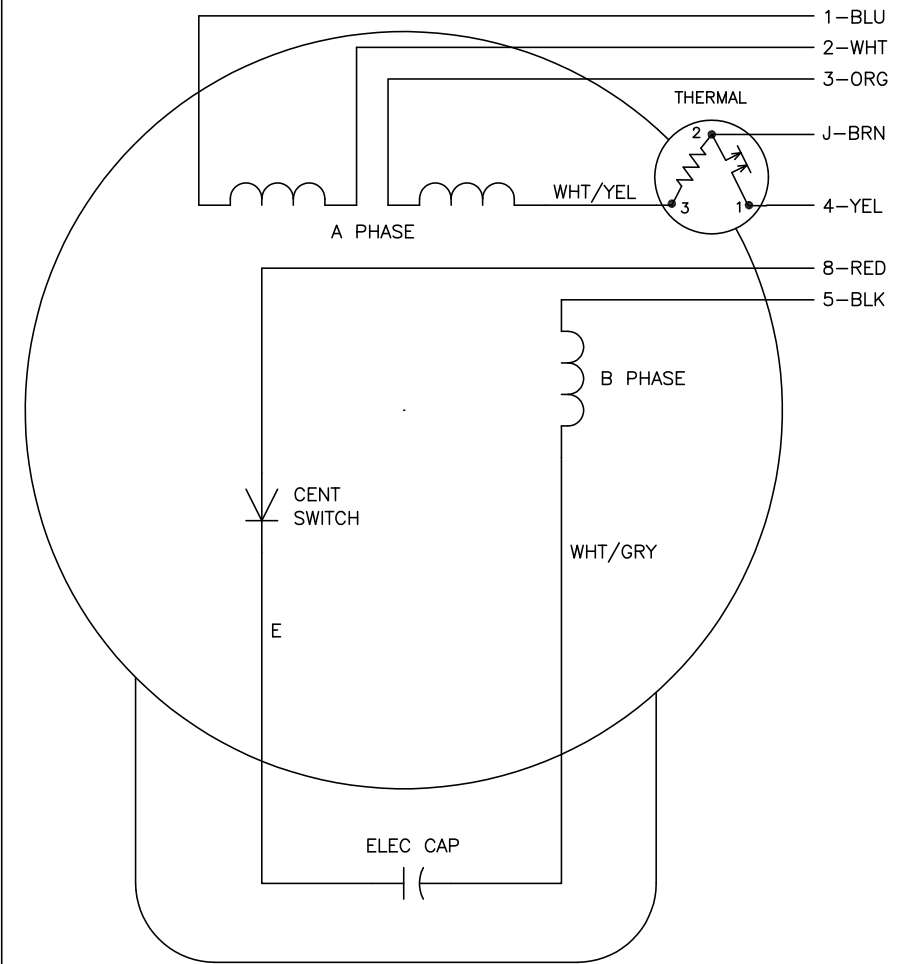


4/23/2025 ACPERF, record # 108283





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.

CD0269

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 04/08/99 1:07	TDR: 0178636
69Z0C0		FILE: AAA00007421	MDL: -
		MTL: -	

**BALDOR ELECTRIC Co.**

TYPE L, DV, REV, THERMAL, B PH AMPS THRU HTR HVC, 7 LEAD