

ABB BALDOR RELIANCE III

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
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. @ 25°C		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

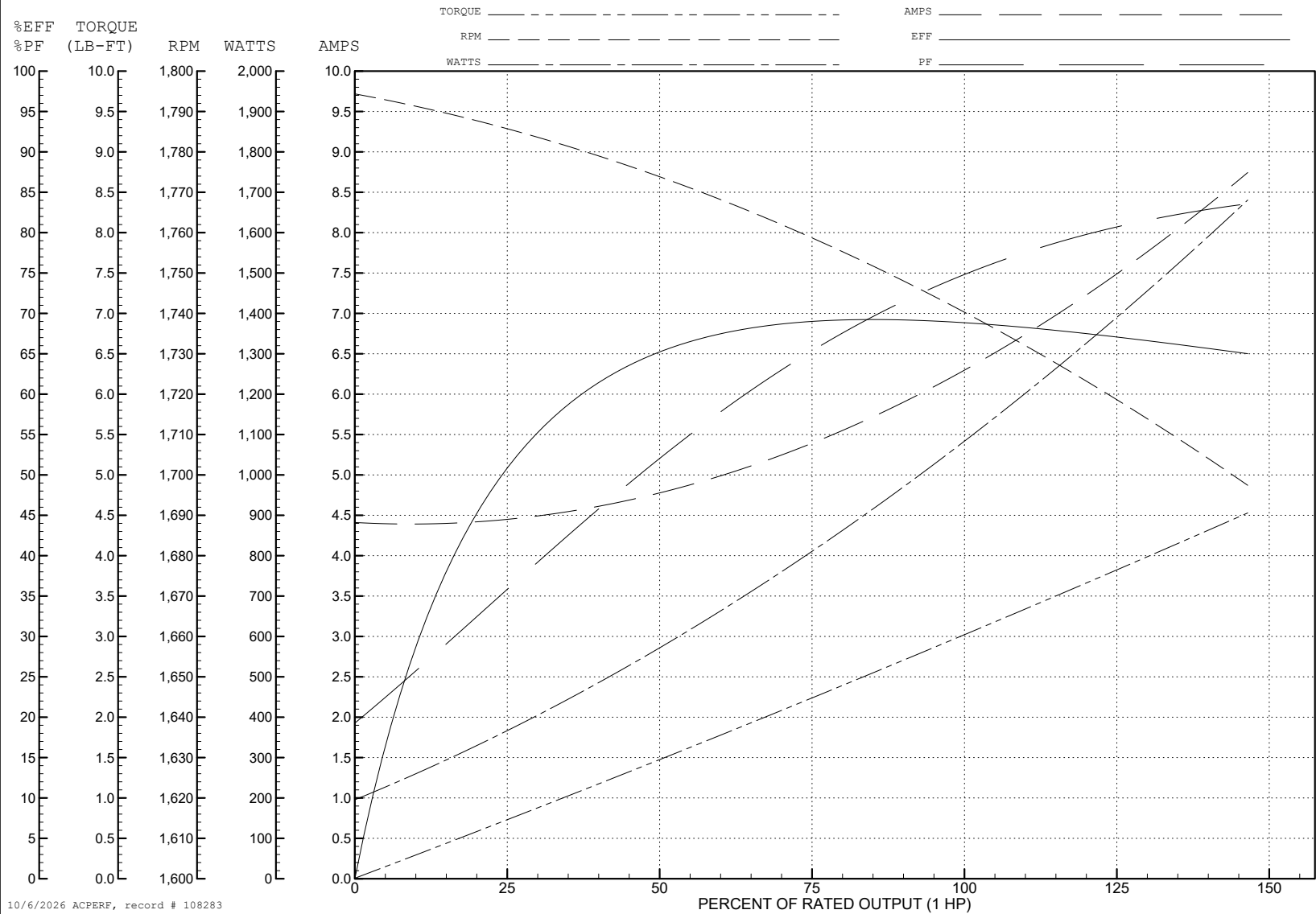
ABB Motors and Mechanical Inc.

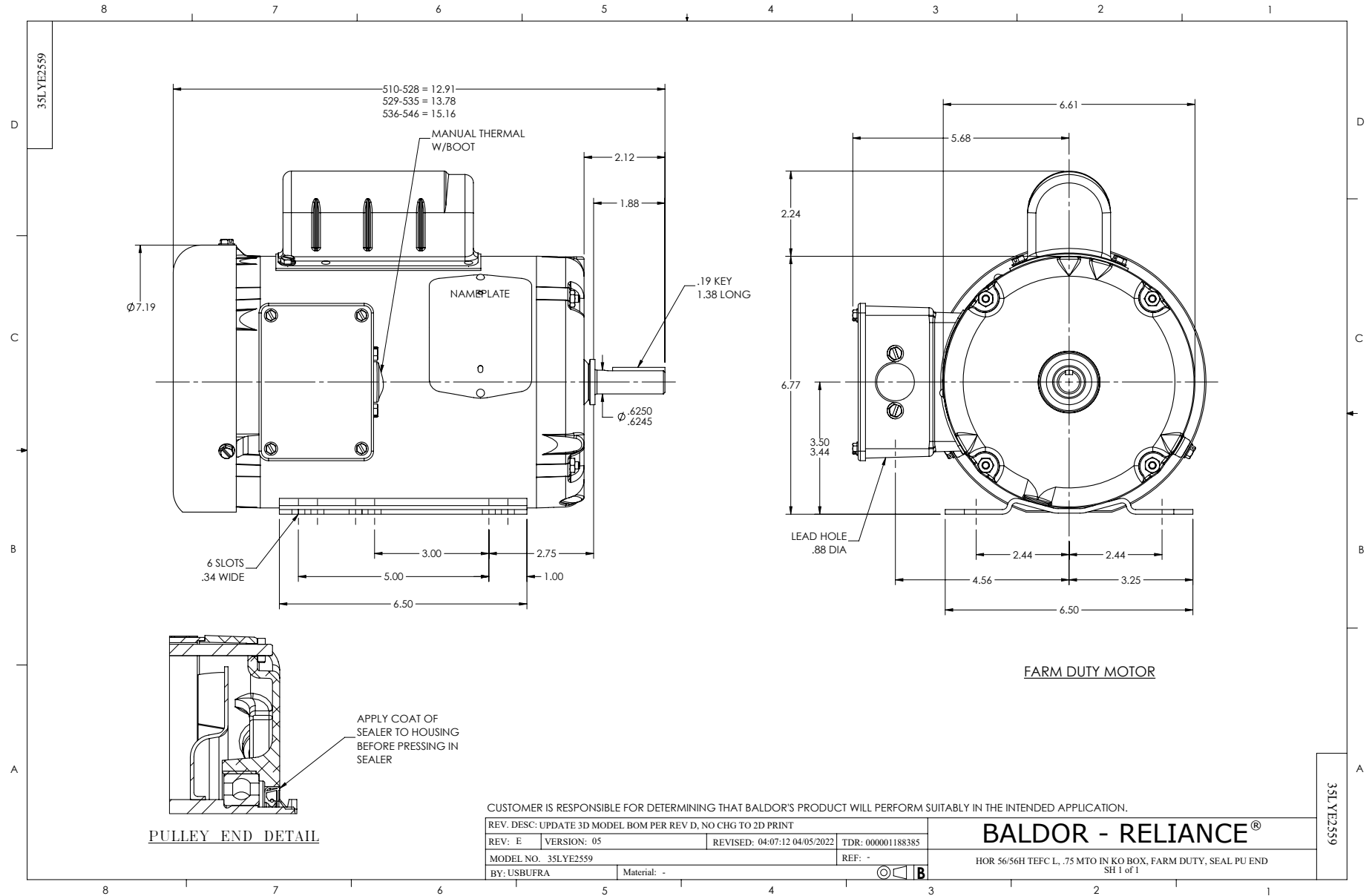
WINDING # 35WGG385

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





CD0269

