BALDOR • RELIANCE

Customer information packet

CFDL3516TM

2HP, 1740RPM, 1PH, 60HZ, 56CHZ, 3534LC, TEFC, F
Class - None
Division - Not Applicable

12/22/2025 1:16:49 PM

Specifications

Enclosure	TEFC
Frame	56CHZ
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	2.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	CURUS
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	8.200 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	78.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	8.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs

Part detail

Revision	A
Type	AC
Mech. spec.	35E2321
Base	
Status	PRD/A
Elec. spec.	35WGG819
Layout	35LYE2321
Eff. date	01-07-2025
CD Diagram	CD0002A02
Poles	04
Leads	2#16 A PH,3#18 B&J
Proprietary	False
Created date	12-13-2024

Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	2 @ 16 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3534LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.10 IN
Power Factor	99
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 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.	CFDL3516TM								
SPEC.	35E2321G819								
HP	2								
VOLTS	230								
AMP	8.2								
RPM	1740								
FRAME	56CHZ	**HZ**	60		**PH**	1			
SER.F.	1.15	**CODE**	J	**DES**	L	**CL**	F		
NEMA-NOM-EFF	78	**PF**	99						
RATING	40C AMB-CONT								
CC									
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
	SFA 9.46								

AC Induction Motor Performance Data
Record # 108862
Preliminary Data Sheet

Winding: A36WG1831-R016	**Type:** A36070M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			75	**Full Load Torque**	220 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			87.1	**Breakdown Torque**	643 LB-FT
R.P.M.			1785	**Pull-up Torque**	387 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	499 LB-FT
NEMA Design Code	-	**KVA Code**	H	**Starting Current**	627 A
Service Factor (S.F.)			1	**No-load Current**	30.83 A
NEMA Nom. Eff.	94.5	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.0843 Ω
Rating - Duty			40C AMB - 60 MIN	**Temp. Rise @ Rated Load**	62°C
				Locked-rotor Power Factor	33.9
				Rotor inertia	16.2 lb-ft²

Load Characteristics 460 V, 60 Hz, 75 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	52	73	82	85	86	86
Efficiency	89.6	93.9	94.4	94.5	94.4	93.7
Speed	1796	1792	1788	1783	1779	1773
Line amperes	37.34	50.94	68.16	87.08	108	130

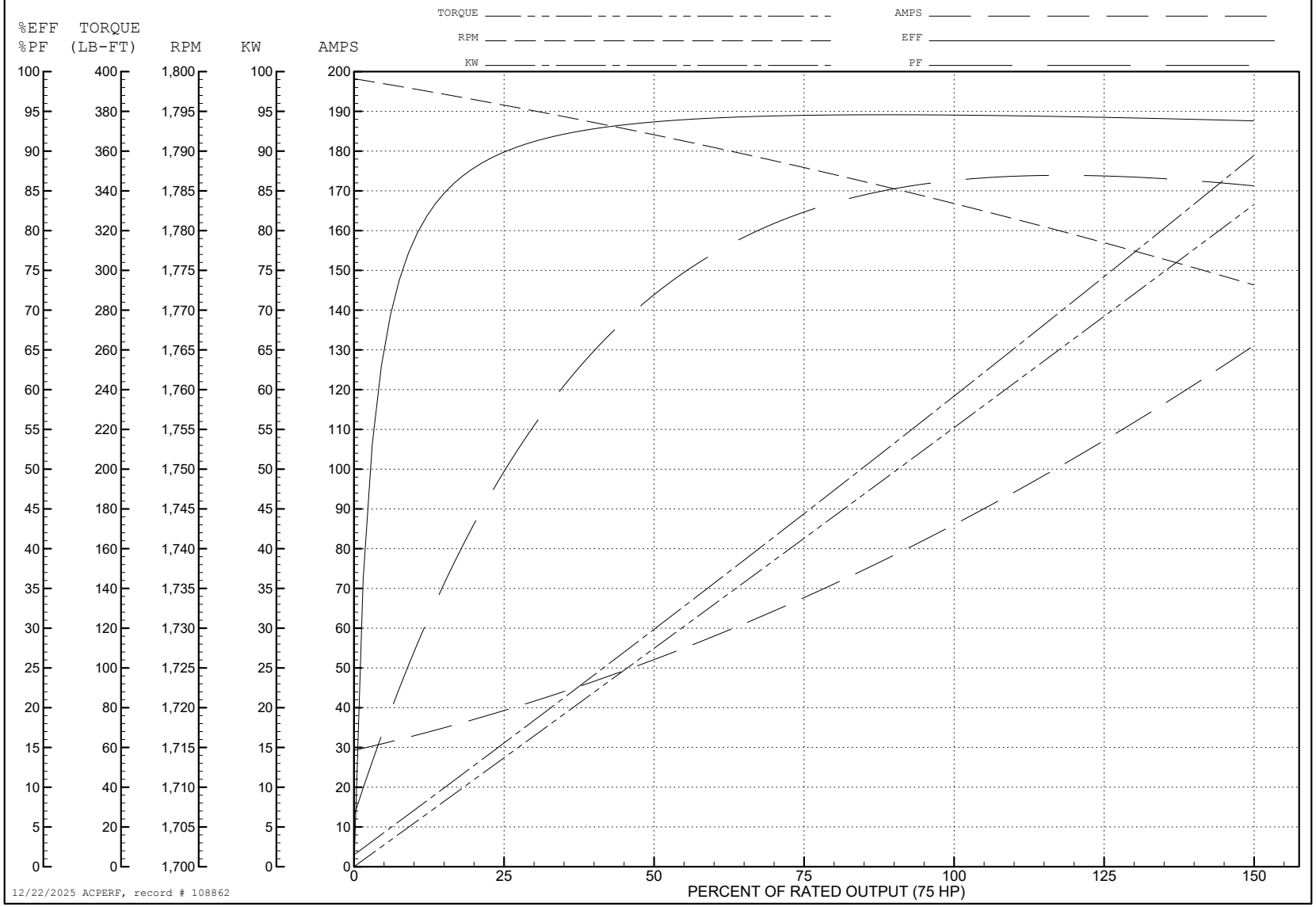
ABB Motors and Mechanical Inc.

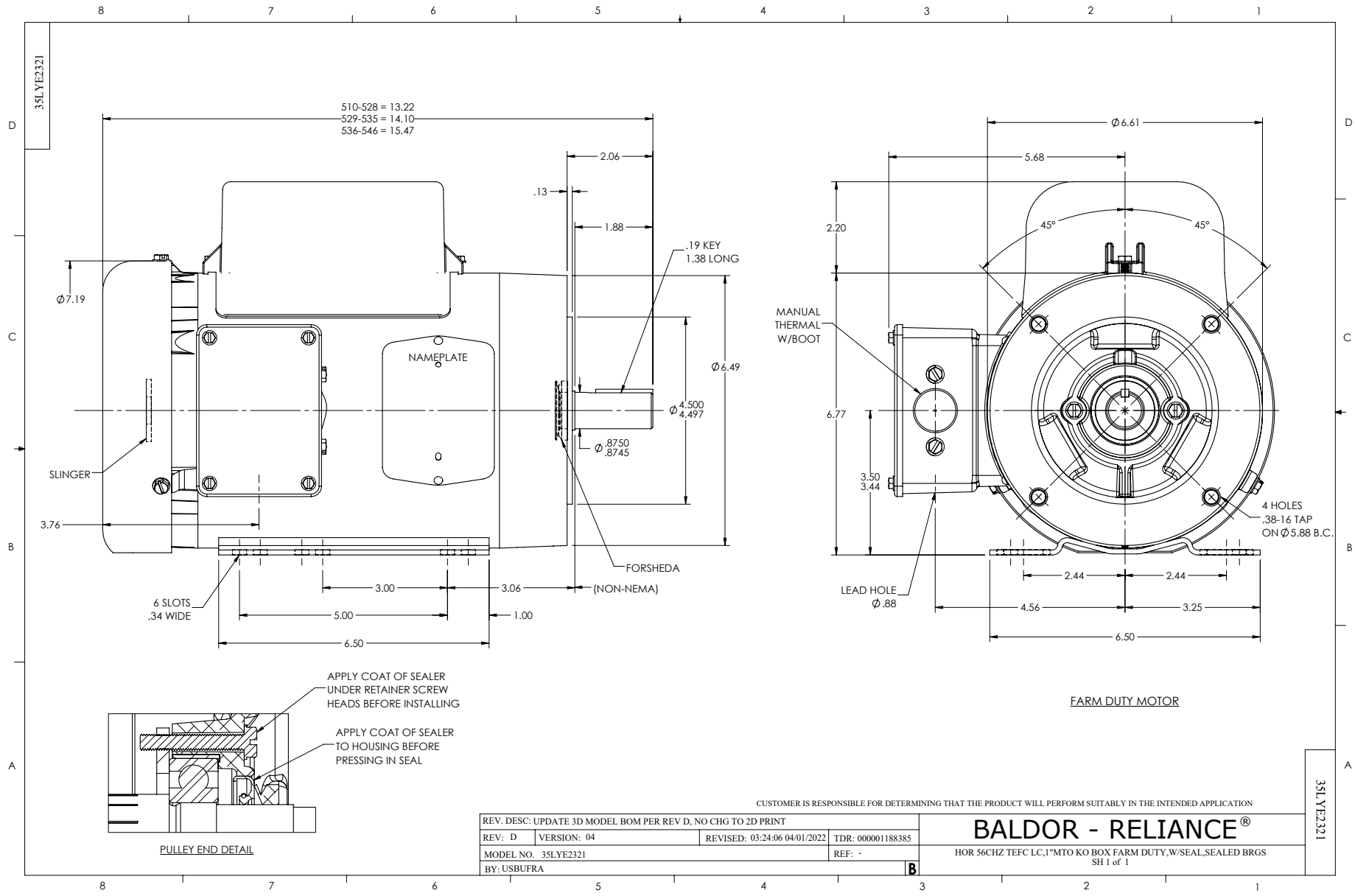
WINDING # A36WG1831-R01

Typical performance - not guaranteed values.

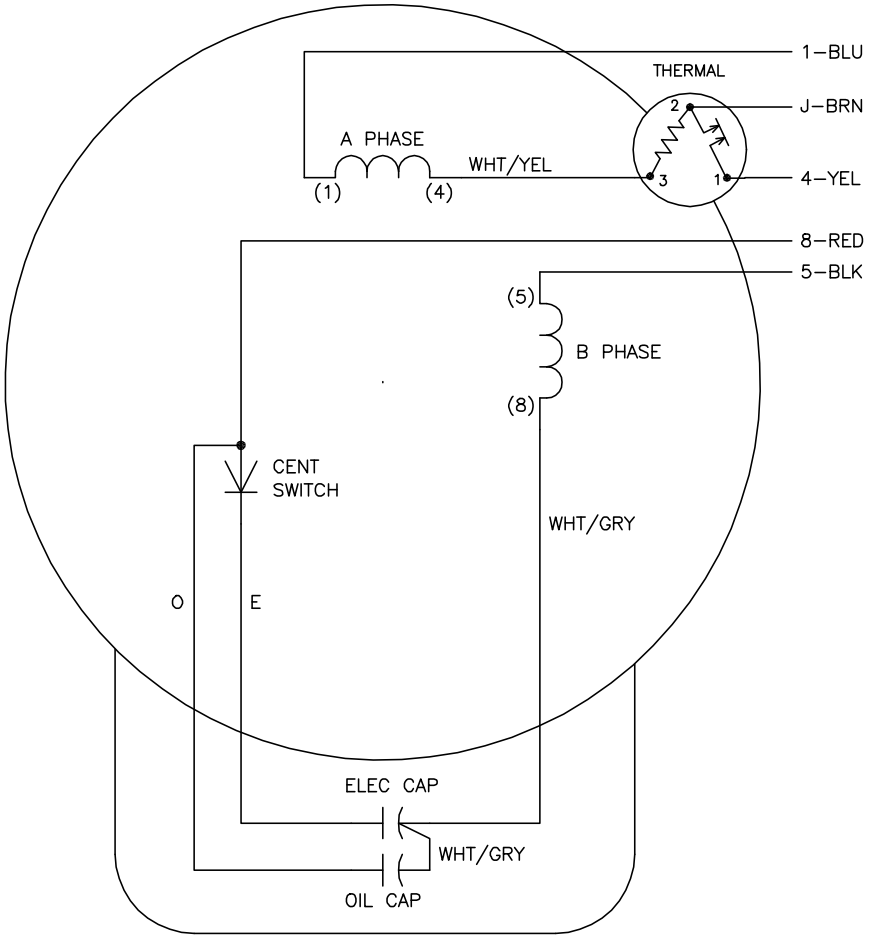
75 HP 3 PH 60 HZ 1785 RPM 460 V A36070M

TORQUES(LB-FT): PO=643 PU=387 LR=499 LRA=627




35LYE2321
510-528 = 13.22
529-535 = 14.10
536-546 = 15.47
2.06
.13
1.88
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø6.49
Ø 4.500
4.497
Ø .8750
.8745
SLINGER
3.76
FORSHEDA
(NON-NEMA)
6 SLOTS
.34 WIDE
3.00
3.06
5.00
1.00
6.50
Ø6.61
5.68
2.20
45°
45°
MANUAL
THERMAL
W/BOOT
6.77
3.50
3.44
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
LEAD HOLE
Ø .88
2.44
2.44
4.56
3.25
6.50
FARM DUTY MOTOR
APPLY COAT OF SEALER
UNDER RETAINER SCREW
HEADS BEFORE INSTALLING
APPLY COAT OF SEALER
TO HOUSING BEFORE
PRESSING IN SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV D, NO CHG TO 2D PRINT
REV: D
VERSION: 04
REVISED: 03:24:06 04/01/2022
TDR: 000001188385
MODEL NO. 35LYE2321
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 56CHZ TEFC LC,1"MTO KO BOX FARM DUTY,W/SEAL,SEALED BRGS
SH 1 of 1
35LYE2321

CD0002A02



	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 2–TERMINAL THERMAL DETAIL, SEE CD0002A04			BALDOR ELECTRIC Co.
REV. LTR: D	VERSION: 01	TDR: 000000360649	
CD0002A02	FILE: \AAA\00007\520	REVISED: 17:11:40 04/15/2005	TYPE LC, SV, REV, THERMAL, 5 LEADS
	MTL: –	BY: ENJOEP0	

CD0002A02