ABB BALDOR RELIANCE

Customer information packet

FDEM3610T-5

3HP, 3450RPM, 3PH, 60HZ, 182T, 3532M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	182T
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
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	2.900 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.9 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing

Part Detail

Revision	E
Type	AC
Mech. spec.	35E3202
Base	
Status	PRD/A
Elec. spec.	35WGM839
Layout	35LYE3202
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	05-23-2018

Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.14 IN
Power Factor	92
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3126L									
CAT.NO.	FDEM3610T-5								
SPEC.	35E3202M839G1								
HP	3								
VOLTS	575								
AMP	2.9								
RPM	3450								
FRAME	182T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	92						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6203						
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 32143
Typical performance - not guaranteed values

Winding: 35WGM839-R001	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			3	**Full Load Torque**	4.5 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.9	**Breakdown Torque**	17.8 LB-FT
R.P.M.			3450	**Pull-up Torque**	10.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15.8 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	26.1 A
Service Factor (S.F.)			1.15	**No-load Current**	0.948 A
NEMA Nom. Eff.	86.5	**Power Factor**	92	**Line-line Res. @ 25ºC**	7.47 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps				**Temp. Rise @ S.F. Load**	74°C
				Locked-rotor Power Factor	47
				Rotor inertia	0.0885 LB-FT2

Load Characteristics 575 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	58	77	86	88	89	90	89
Efficiency	83.8	87.9	88.1	87.2	85.5	83.4	86.2
Speed	3562	3531	3497	3461	3419	3373	3436
Line amperes	1.19	1.67	2.23	2.88	3.6	4.32	3.31

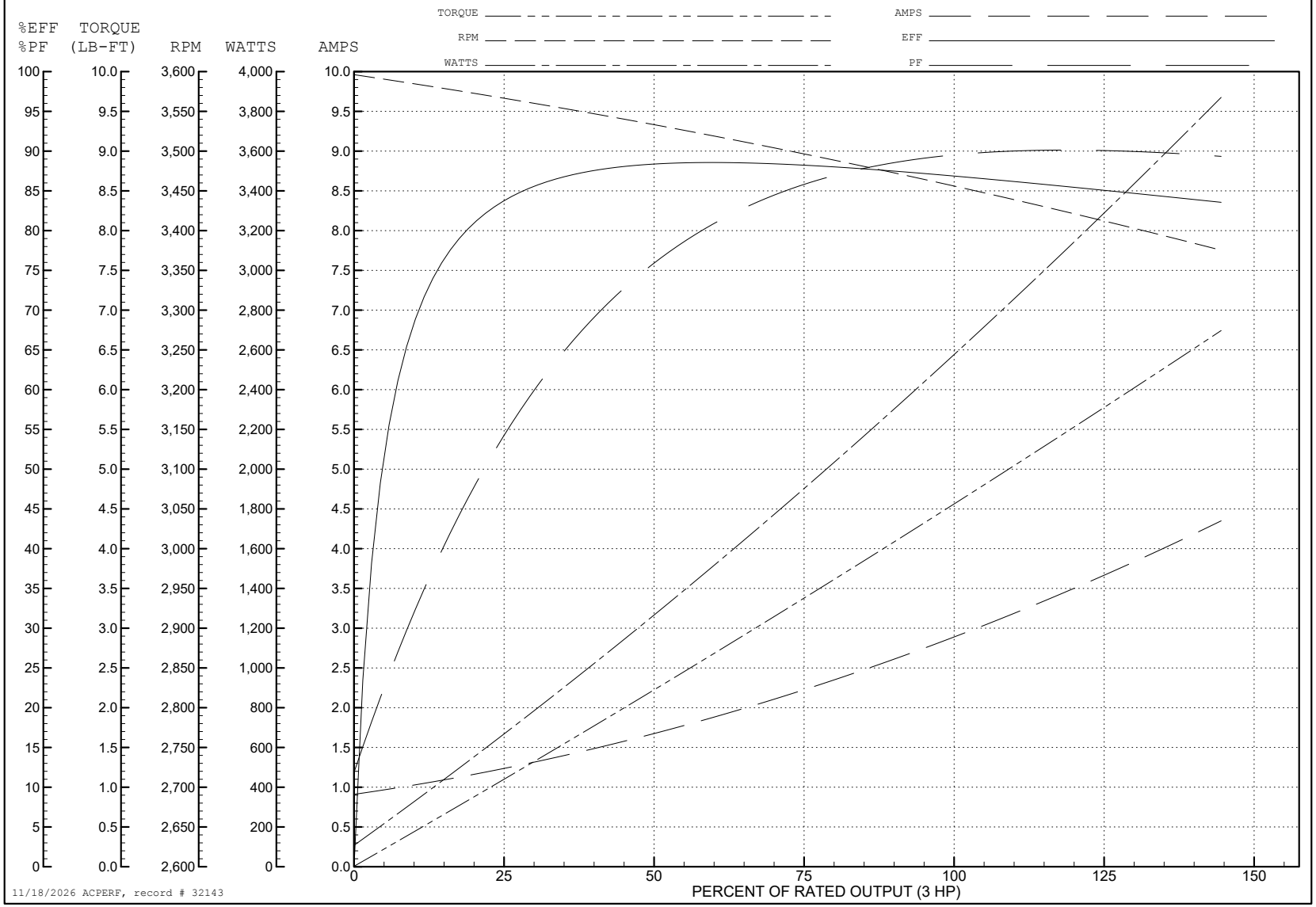
ABB Motors and Mechanical Inc.

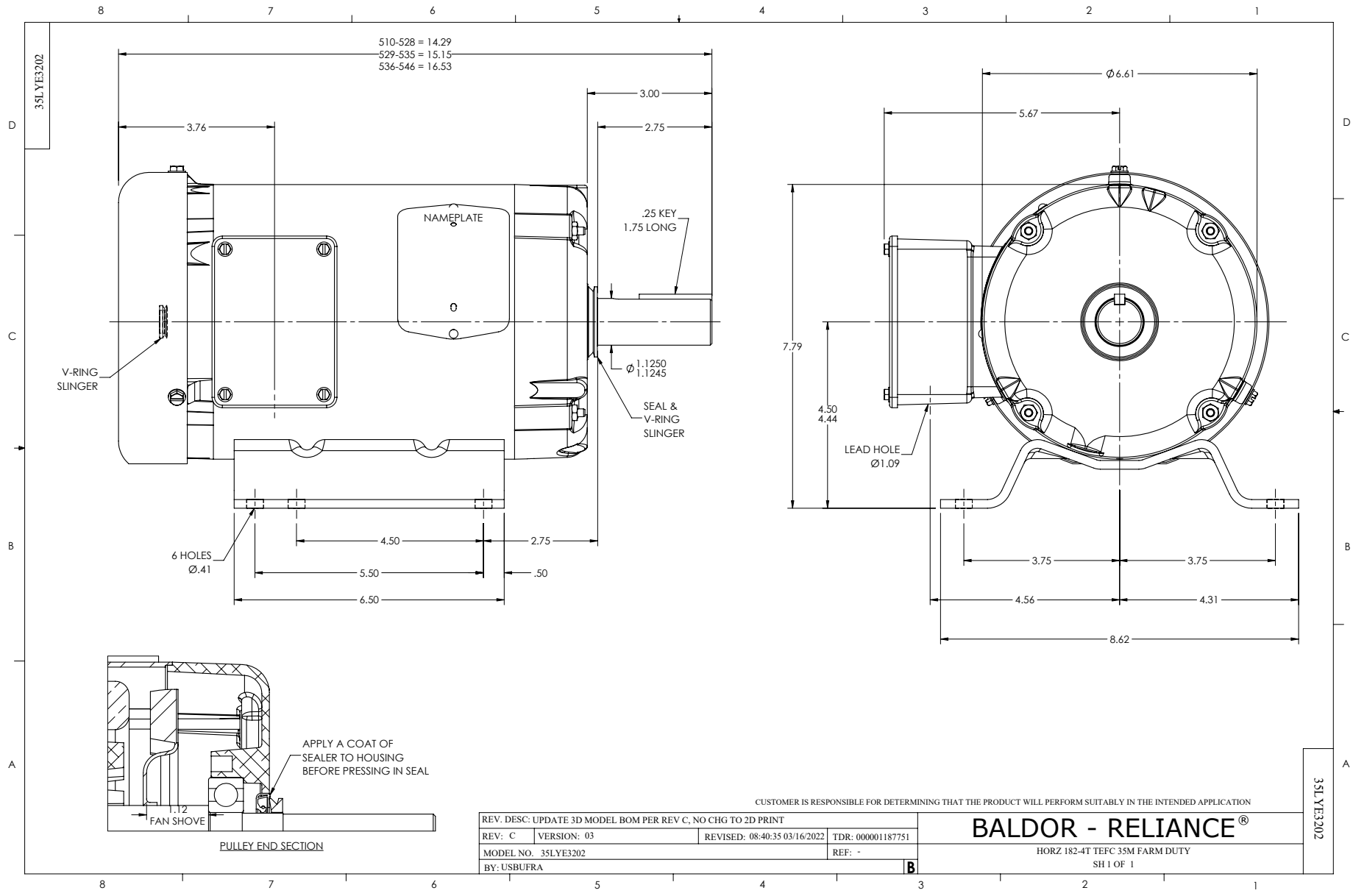
WINDING # 35WGM839

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 3450 RPM 575 V 3532M

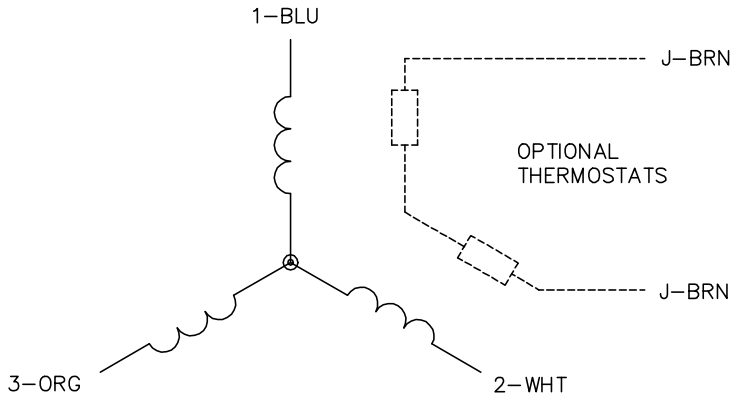
TORQUES(LB-FT): PO=17.8 PU=10.9 LR=15.8 LRA=26.1

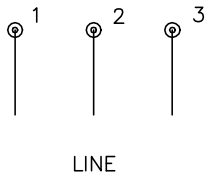



35LYE3202
510-528 = 14.29
529-535 = 15.15
536-546 = 16.53
3.00
3.76
2.75
NAMEPLATE
.25 KEY
1.75 LONG
V-RING
SLINGER
Ø1.1250
1.1245
SEAL &
V-RING
SLINGER
6 HOLES
Ø.41
4.50
2.75
5.50
.50
6.50
Ø6.61
5.67
7.79
4.50
4.44
LEAD HOLE
Ø1.09
3.75
3.75
4.56
4.31
8.62
APPLY A COAT OF
SEALER TO HOUSING
BEFORE PRESSING IN SEAL
1.12
FAN SHOVE
PULLEY END SECTION
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV C, NO CHG TO 2D PRINT
REV: C
VERSION: 03
REVISED: 08:40:35 03/16/2022
TDR: 000001187751
MODEL NO. 35LYE3202
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 182-4T TEFC 35M FARM DUTY
SH 1 OF 1
35LYE3202

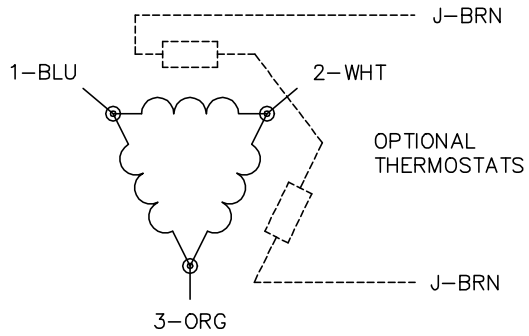
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1