ABB BALDOR RELIANCE

Customer information packet

VEJMM3157T-5

2HP, 1760RPM, 3PH, 60HZ, 145JM, 3530M, ODTF, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	ODTF
Frame	145JM
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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.300 A @ 575.0 V
Design Code	B
Drip Cover	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	2.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L

Part Detail

Revision	B
Type	AC
Mech. spec.	35E422
Base	
Status	PRD/A
Elec. spec.	35WGG866
Layout	35LYE422
Eff. date	02-25-2025
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	12-20-2023

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.29 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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	None
Winding Thermal 2	None

Nameplate

NP1259L									
CAT.NO.	VEJMM3157T-5								
SPEC.	35E422G866								
HP	2								
VOLTS	575								
AMP	2.3								
RPM	1760								
FRAME	145JM	**HZ**	60				**PH**	3	
SER.F.	1.15	**CODE**	L	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	74						
RATING	40C AMB-CONT								
CC	010A								
DE	6206	**ODE**	6203						
ENCL	ODTF	**SN**							
	INVERTER DUTY 20:1 VT								

AC Induction Motor Performance Data
Record # 101388
Typical performance - not guaranteed values

Winding: 35WGG866-R001	**Type:** 3530M	**Enclosure:** OPSB

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	5.98 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.3	**Breakdown Torque**	23 LB-FT
R.P.M.			1760	**Pull-up Torque**	15.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16.9 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	20 A
Service Factor (S.F.)			1.15	**No-load Current**	1.42 A
NEMA Nom. Eff.	86.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	12.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps				**Temp. Rise @ S.F. Load**	73°C
				Locked-rotor Power Factor	56.5
				Rotor inertia	0.217 lb-ft²

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	52	66	74	80	83	78
Efficiency	77.8	85	87	87	86.1	84.6	86.5
Speed	1792	1783	1773	1763	1753	1739	1757
Line amperes	1.48	1.68	1.95	2.32	2.73	3.19	2.57

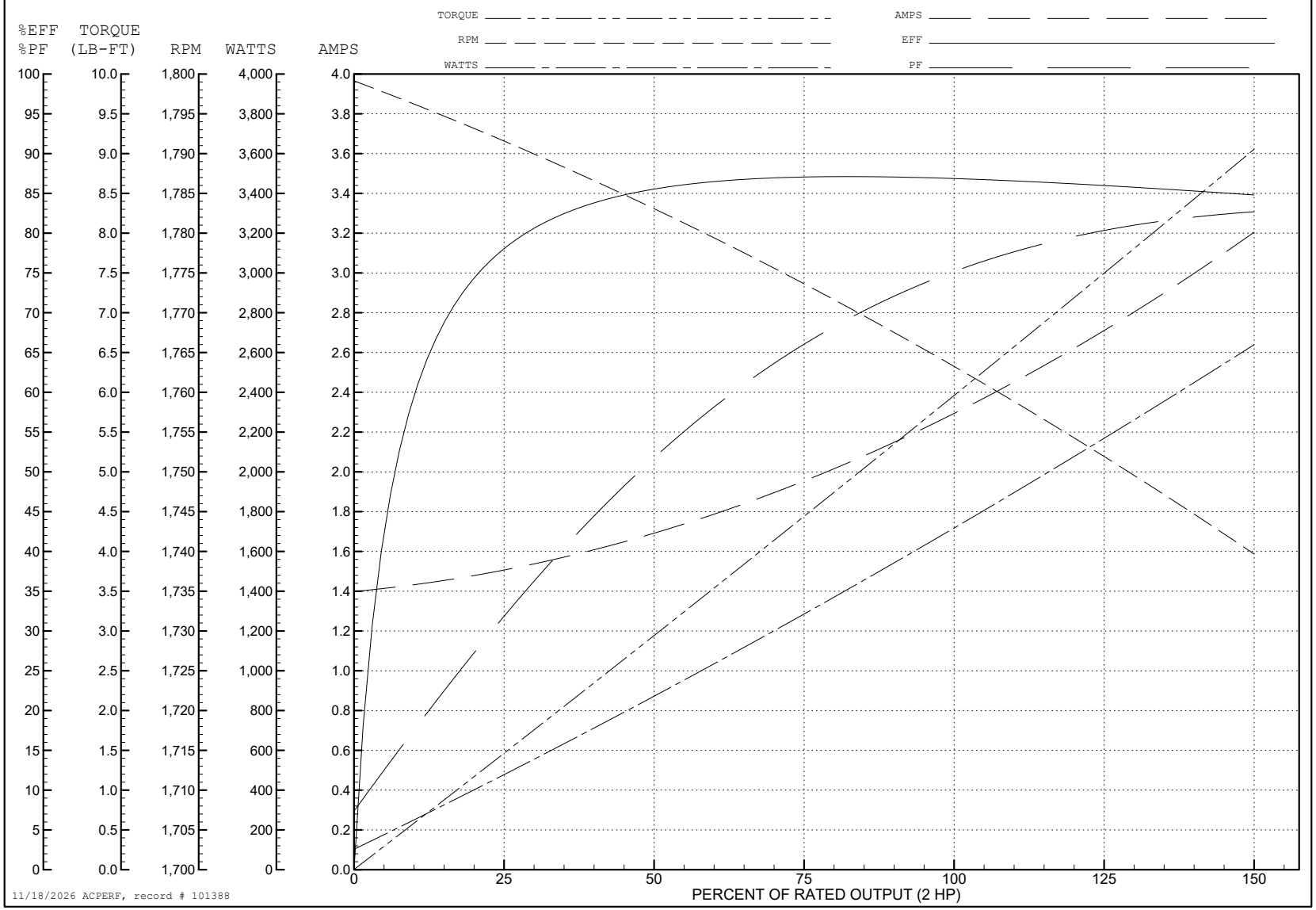
ABB Motors and Mechanical Inc.

WINDING # 35WGG866

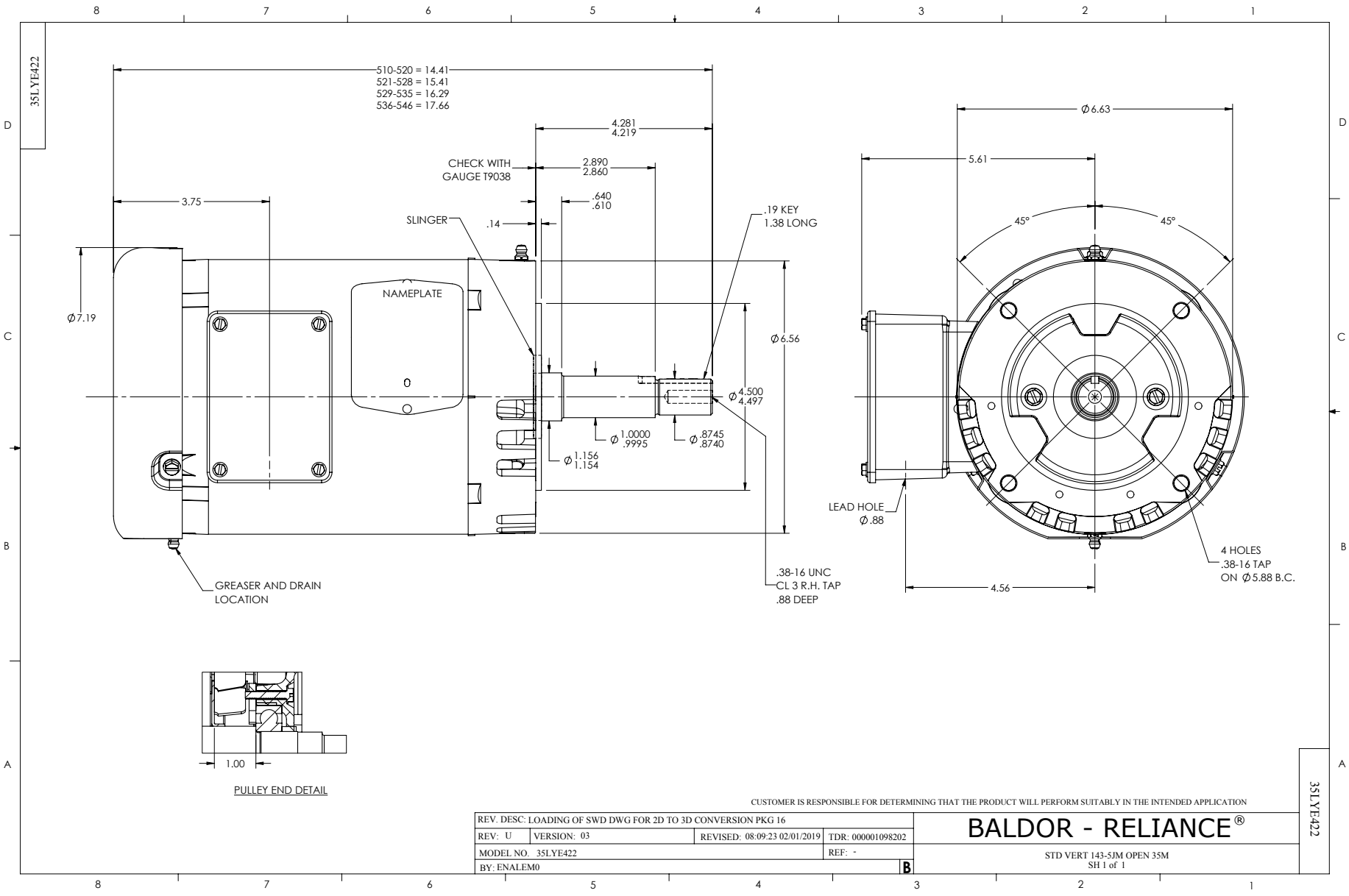
2 HP 3 PH 60 HZ 1760 RPM 575 V 3530M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=23 PU=15.5 LR=16.9 LRA=20

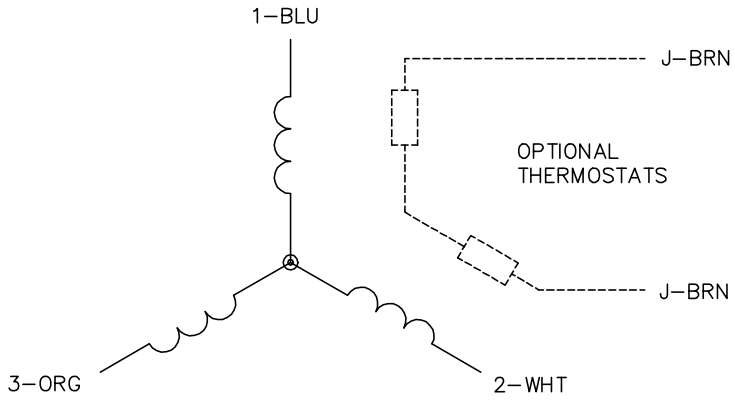


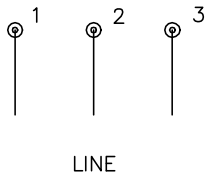
11/18/2026 ACPERF, record # 101388


35LYE422
510-520 = 14.41
521-528 = 15.41
529-535 = 16.29
536-546 = 17.66
4.281
4.219
CHECK WITH
GAUGE T9038
2.890
2.860
.640
.610
3.75
SLINGER
.14
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø6.56
Ø 4.500
4.497
Ø 1.0000
.9995
Ø .8745
.8740
Ø 1.156
1.154
GREASER AND DRAIN
LOCATION
.38-16 UNC
CL 3 R.H. TAP
.88 DEEP
Ø6.63
5.61
45°
45°
LEAD HOLE
Ø.88
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
4.56
1.00
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION PKG 16
REV: U
VERSION: 03
REVISED: 08:09:23 02/01/2019
TDR: 000001098202
MODEL NO. 35LYE422
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
STD VERT 143-5JM OPEN 35M
SH 1 of 1
35LYE422

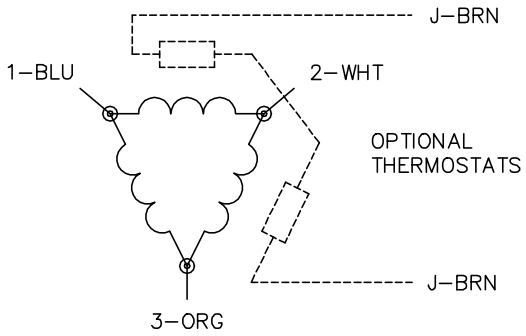
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1