ABB BALDOR RELIANCE

Customer information packet

M3157T-5

2HP, 1740RPM, 3PH, 60HZ, 145T, 3528M, OPSB, F1
Class -
Division - Not Applicable

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Specifications

Enclosure	ODP
Frame	145T
Frame Material	Steel
Frequency	60.00 Hz
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	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.200 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.2 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K

Part Detail

Revision	X
Type	AC
Mech. spec.	35B101
Base	
Status	NLA/A
Elec. spec.	35WGS003
Layout	35LYB101
Eff. date	03-08-2016
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	01-01-0001

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.12 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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	None
Winding Thermal 2	None

Nameplate

NP1256L									
CAT.NO.	M3157T-5								
SPEC.	35B101S003H1								
HP	2								
VOLTS	575								
AMP	2.2								
RPM	1740								
FRAME	145T	**HZ**	60			**PH**	3		
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	B		
NEMA-NOM-EFF	84	**PF**	79						
RATING	40C AMB-CONT								
CC	010A								
DE	6205	**ODE**	6203						
ENCL	OPSB	**SN**							

Accessories

Part number	Description	Multiplier
35-8764	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	

AC Induction Motor Performance Data
Record # 20338
Typical performance - not guaranteed values

Winding: 35WGS003-R002	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	6 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.2	**Breakdown Torque**	22.5 LB-FT
R.P.M.			1740	**Pull-up Torque**	15.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16.5 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	16.8 A
Service Factor (S.F.)			1.15	**No-load Current**	1.1 A
NEMA Nom. Eff.	84	**Power Factor**	79	**Line-line Res. @ 25ºC**	12.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps				**Temp. Rise @ S.F. Load**	87°C
				Locked-rotor Power Factor	50
				Rotor inertia	0.166 LB-FT2

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	61	73	79	83	85	0
Efficiency	77	83.8	85.2	84.6	83.2	80.9	0
Speed	1782	1766	1748	1727	1706	1679	0
Line amperes	1.2	1.5	1.8	2.2	2.7	3.3	2.6

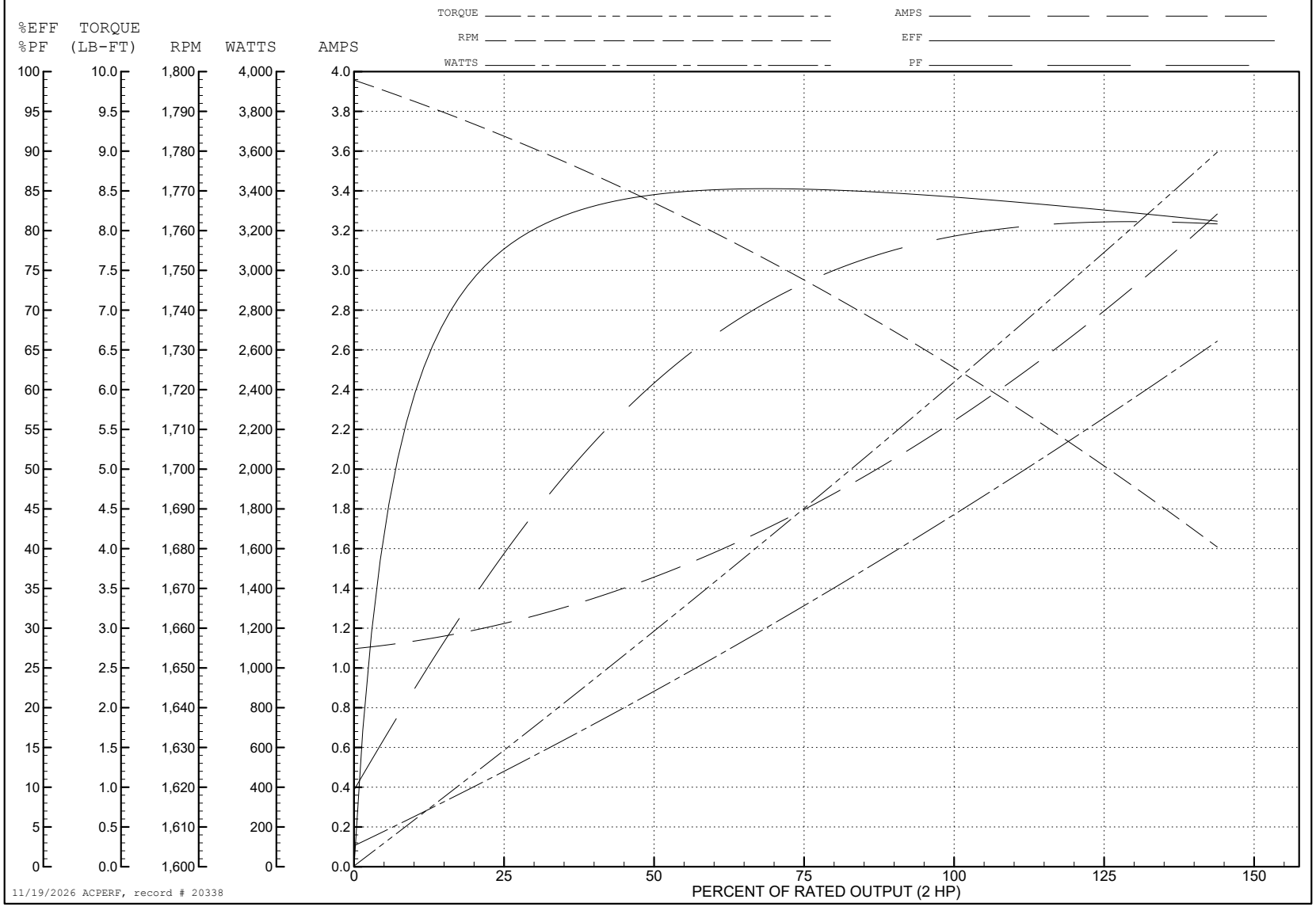
ABB Motors and Mechanical Inc.

WINDING # 35WGS003

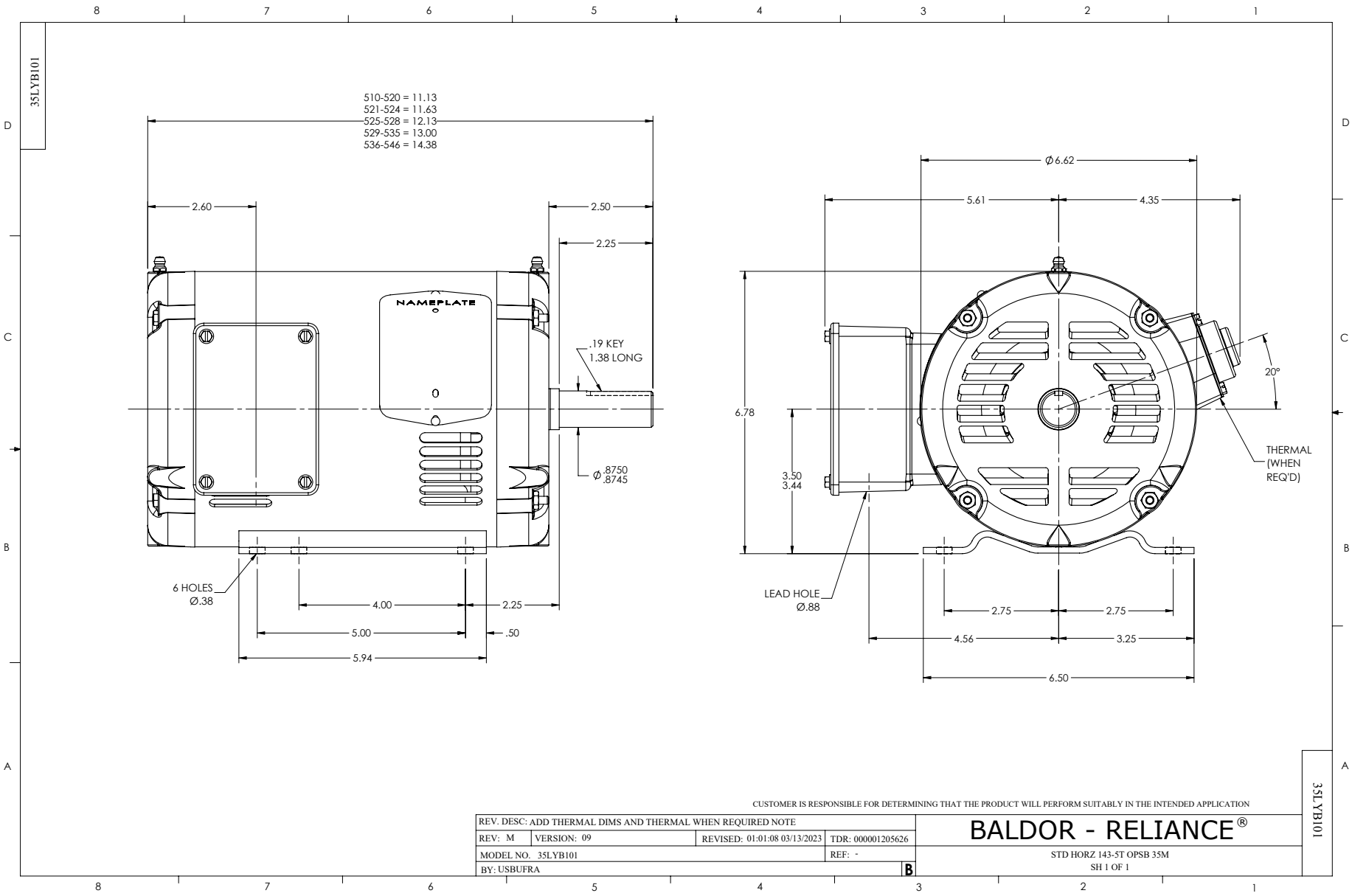
2 HP 3 PH 60 HZ 1740 RPM 575 V 3528M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=22.5 PU=15.5 LR=16.5 LRA=16.8

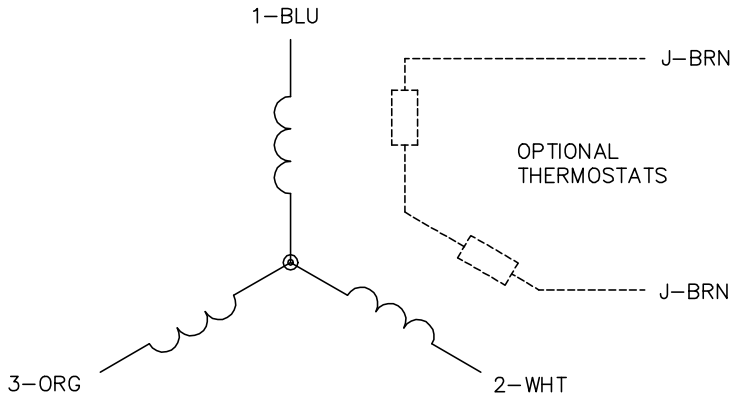


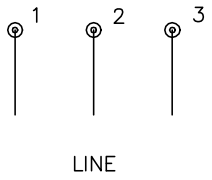
11/19/2026 ACPERF, record # 20338


35LYB101
510-520 = 11.13
521-524 = 11.63
525-528 = 12.13
529-535 = 13.00
536-546 = 14.38
2.60
2.50
2.25
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
.8745
6 HOLES
Ø.38
4.00
2.25
5.00
.50
5.94
Ø6.62
5.61
4.35
6.78
3.50
3.44
20°
THERMAL
(WHEN
REQ'D)
LEAD HOLE
Ø.88
2.75
2.75
4.56
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD THERMAL DIMS AND THERMAL WHEN REQUIRED NOTE
REV: M
VERSION: 09
REVISED: 01:01:08 03/13/2023
TDR: 000001205626
MODEL NO. 35LYB101
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-5T OPSB 35M
SH 1 OF 1
35LYB101

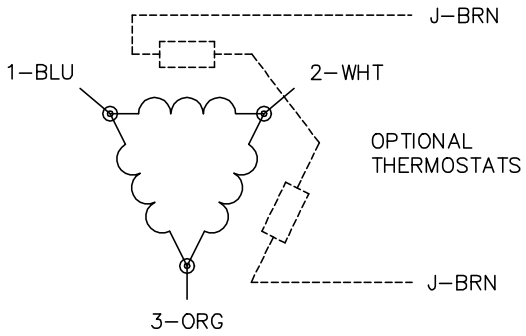
CD0006

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

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