ABB BALDOR RELIANCE

Customer information packet

EM3157T-57

2/1.5KWHP, 1460RPM, 3PH, 50HZ, 145T, 3528M, OP
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	145T
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	400.0 V @ 50 HZ
	230.0 V @ 50 HZ
Agency Approvals	C UR US
	CE
	CURUS
	IE3
	UKCA
	WEEE
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	5.300 A @ 230.0 V
	3.100 A @ 400.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	C
Type	AC
Mech. spec.	35BB001
Base	
Status	PRD/A
Elec. spec.	35WGG303
Layout	35LYBB001
Eff. date	05-07-2024
CD Diagram	CD0022
Poles	04
Leads	6#18
Proprietary	False
Created date	03-11-2022

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.13 IN
Power Factor	81
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 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

NP2716L											
CAT NO	EM3157T-57										
SPEC.	35BB001G303G1										
HP	2/1.5KW						**PH**	3			
VOLTS	230/400										
AMP	5.3/3.1										
R.P.M. (1/MIN)	1460										
FRAME	145T		**HZ**	50				**I.P.**	23		
SER.F.	1.15	**CODE**	J	**DES**	B			**CL**	F		
NOM.EFF.	85.5			**% (100%)**							
PF	81										
RATING	40C AMB-CONT					**CC**					
DE BRG	6205			**ODE**	6203						
ENCL	OPEN	**SN**									
BLANK	SFA 6.1/3.5										
	20KG IC01										

AC Induction Motor Performance Data
Record # 86991
Typical performance - not guaranteed values

Winding: 35WGG303-R002	**Type:** 3528M	**Enclosure:** OPEN

Nameplate Data				**400 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	7.1 LB-FT
Volts			230/400	**Start Configuration**	direct on line
Full Load Amps			5.3/3.1	**Breakdown Torque**	21.59 LB-FT
R.P.M.			1460	**Pull-up Torque**	17.05 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	19.18 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	22.6 A
Service Factor (S.F.)			1.15	**No-load Current**	1.54 A
NEMA Nom. Eff.	85.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	9.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps			6.1/3.5	**Temp. Rise @ S.F. Load**	86°C
				Locked-rotor Power Factor	62.7
				Rotor inertia	0.202 lb-ft²

Load Characteristics 400 V, 50 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	40	61	75	81	85	87	83
Efficiency	80.8	86.6	87.1	85.7	84	81.5	84.7
Speed	1492	1482	1471	1459	1445	1431	1451
Line amperes	1.66	1.98	2.48	3.06	3.76	4.52	3.48

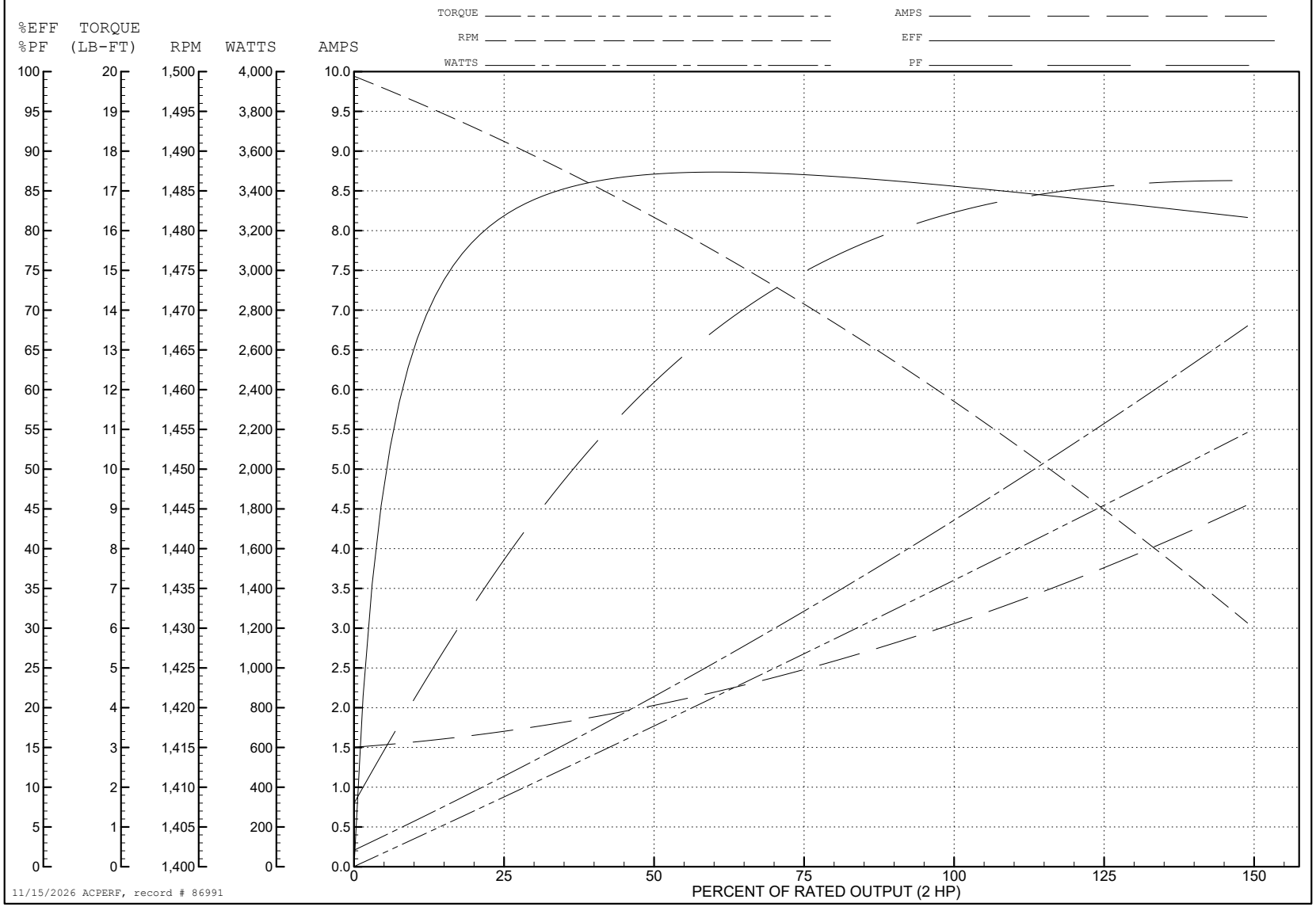
ABB Motors and Mechanical Inc.

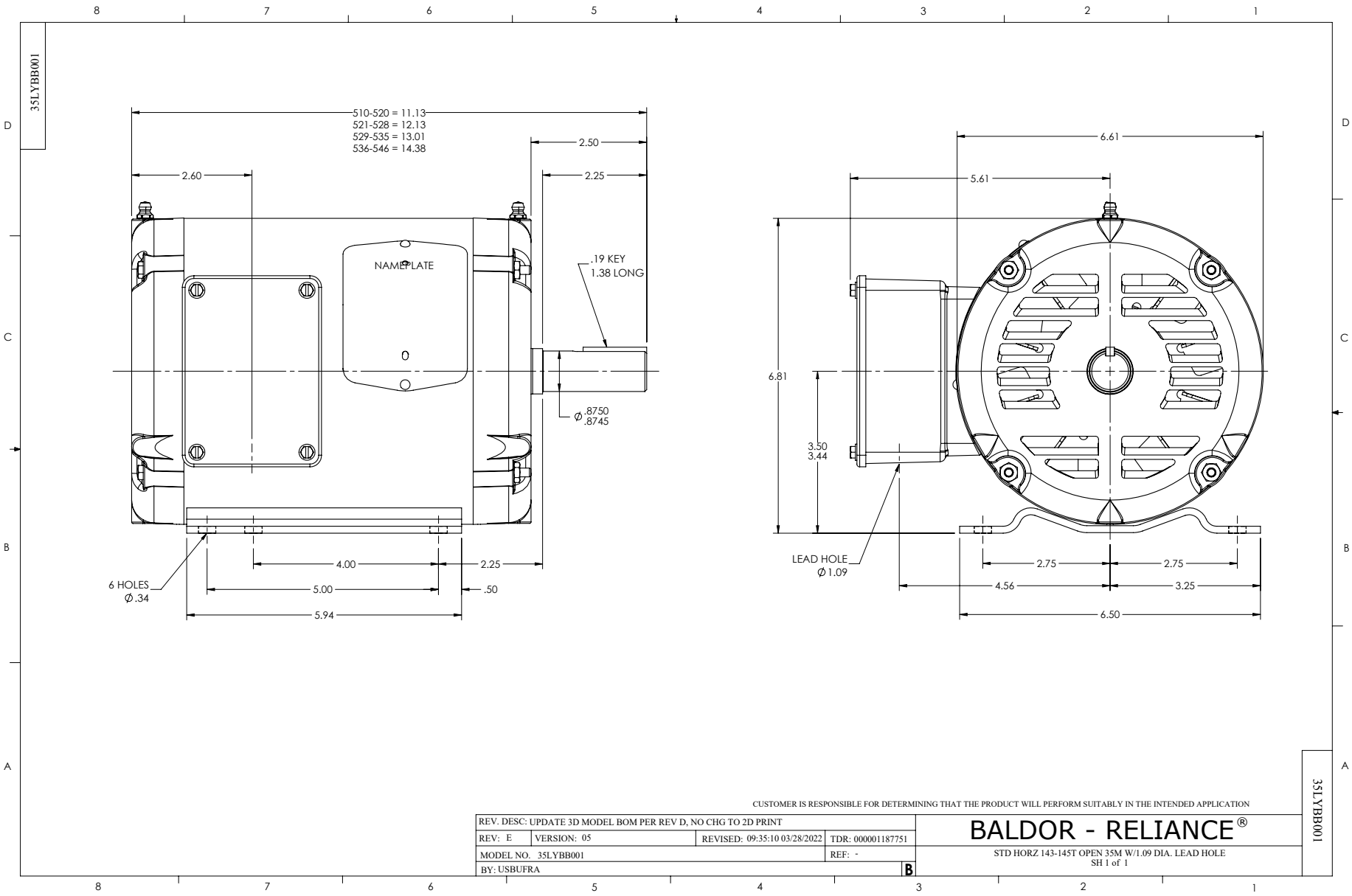
WINDING # 35WGG303

2 HP 3 PH 50 HZ 1460 RPM 400 V 3528M

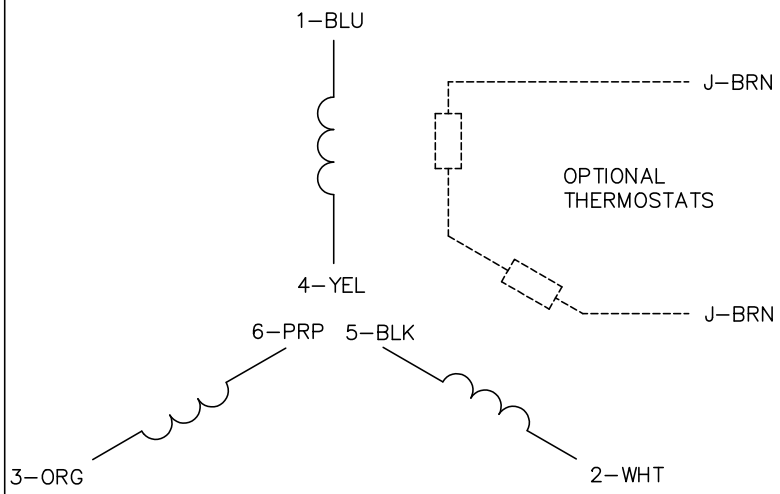
Typical performance - not guaranteed values.

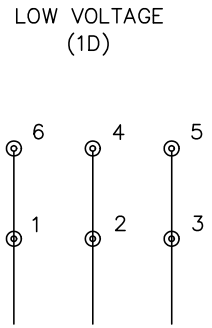
TORQUES(LB-FT): PO=21.59 PU=17.05 LR=19.18 LRA=22.6

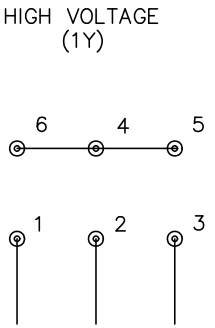



35LYBB001
510-520 = 11.13
521-528 = 12.13
529-535 = 13.01
536-546 = 14.38
2.50
2.60
2.25
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
.8745
6 HOLES
Ø .34
4.00
2.25
5.00
.50
5.94
6.61
5.61
6.81
3.50
3.44
LEAD HOLE
Ø 1.09
2.75
2.75
4.56
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV D, NO CHG TO 2D PRINT
REV: E
VERSION: 05
REVISED: 09:35:10 03/28/2022
TDR: 000001187751
MODEL NO. 35LYBB001
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD HORZ 143-145T OPEN 35M W/1.09 DIA. LEAD HOLE
SH 1 of 1
35LYBB001

CD0022







NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: F	BY: JLP	REVISED: 01/21/99 3:54	TDR: 0171435
CD0022		FILE: AAA00005144	MDL: –
		MTL: –	3PH, DV, 6 LEADS, DELTA/WYE CONNECTION

CD0022