ABB BALDOR RELIANCE

Customer information packet

VM3559T

3HP, 3450RPM, 3PH, 60HZ, 145TC, 3528M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145TC
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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
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	3.800 A @ 460.0 V
	7.600 A @ 230.0 V
	8.000 A @ 208.0 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
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	35AA003
Base	
Status	INA/A
Elec. spec.	35WGL051
Layout	35LYAA003
Eff. date	03-08-2016
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	11-26-2014

High Voltage Full Load Amps	3.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	13.29 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
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	3450 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.	VM3559T							
SPEC.	35AA003L051H1							
HP	3							
VOLTS	230/460							
AMP	7.6/3.8							
RPM	3450							
FRAME	145TC	**HZ**	60			**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	85.5	**PF**	89					
RATING	40C AMB-CONT							
CC	010A							
DE	6205	**ODE**	6203					
ENCL	TEFC	**SN**						

AC Induction Motor Performance Data
Record # 47376
Typical performance - not guaranteed values

Winding: 35WGL051-R001	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	4.65 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			7.6/3.8	**Breakdown Torque**	18.7 LB-FT
R.P.M.			3450	**Pull-up Torque**	12.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.3 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32 A
Service Factor (S.F.)			1.15	**No-load Current**	1.36 A
NEMA Nom. Eff.	85.5	**Power Factor**	89	**Line-line Res. @ 25ºC**	4.7021 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps				**Temp. Rise @ S.F. Load**	81°C

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	76	85	89	92	93	91
Efficiency	82.1	87	87.4	86.2	84.6	82.2	85.2
Speed	3566.3	3535	3499.4	3457.2	3415.1	3364.7	3432
Line amperes	1.63	2.16	2.88	3.74	4.57	5.58	4.24

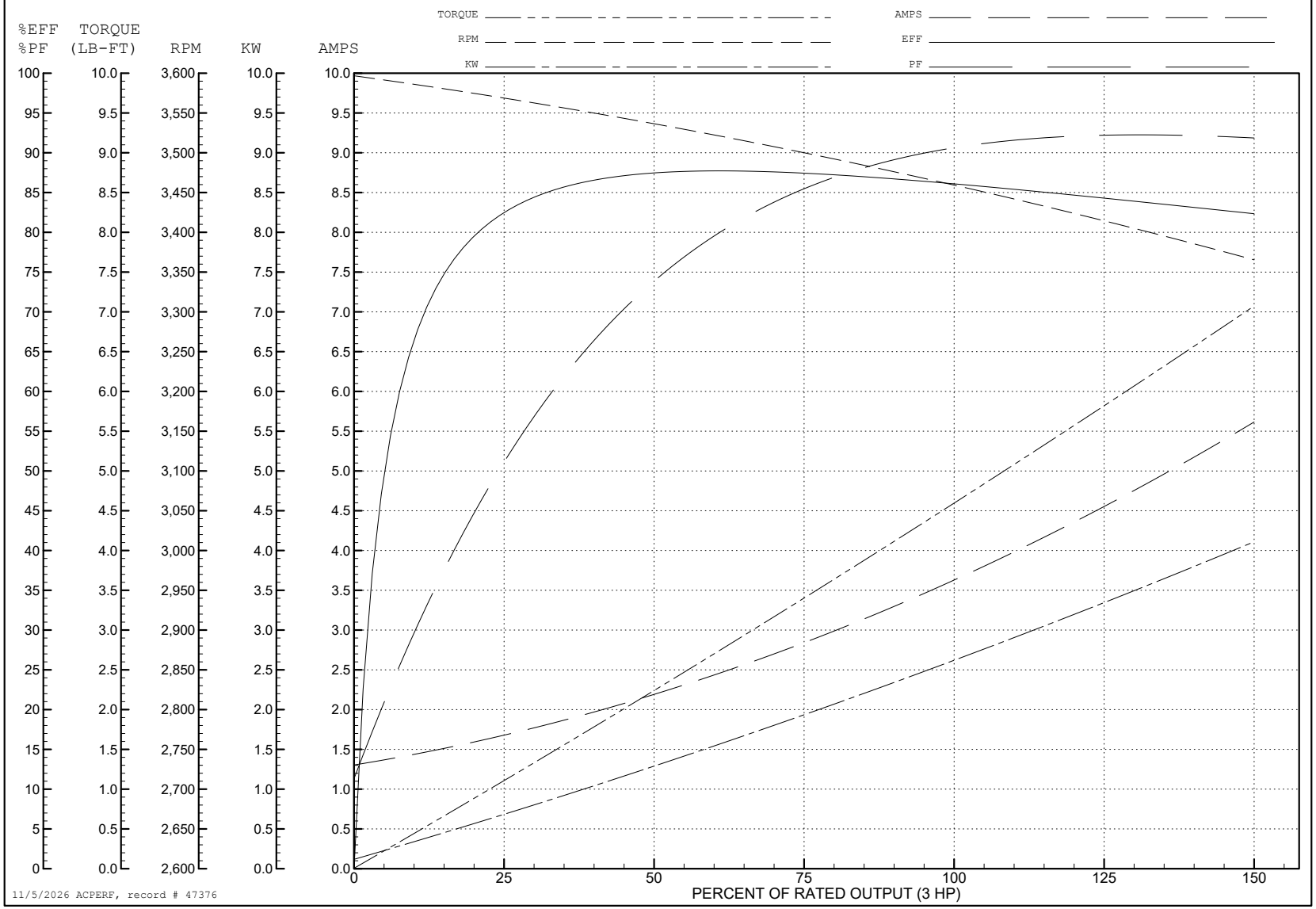
ABB Motors and Mechanical Inc.

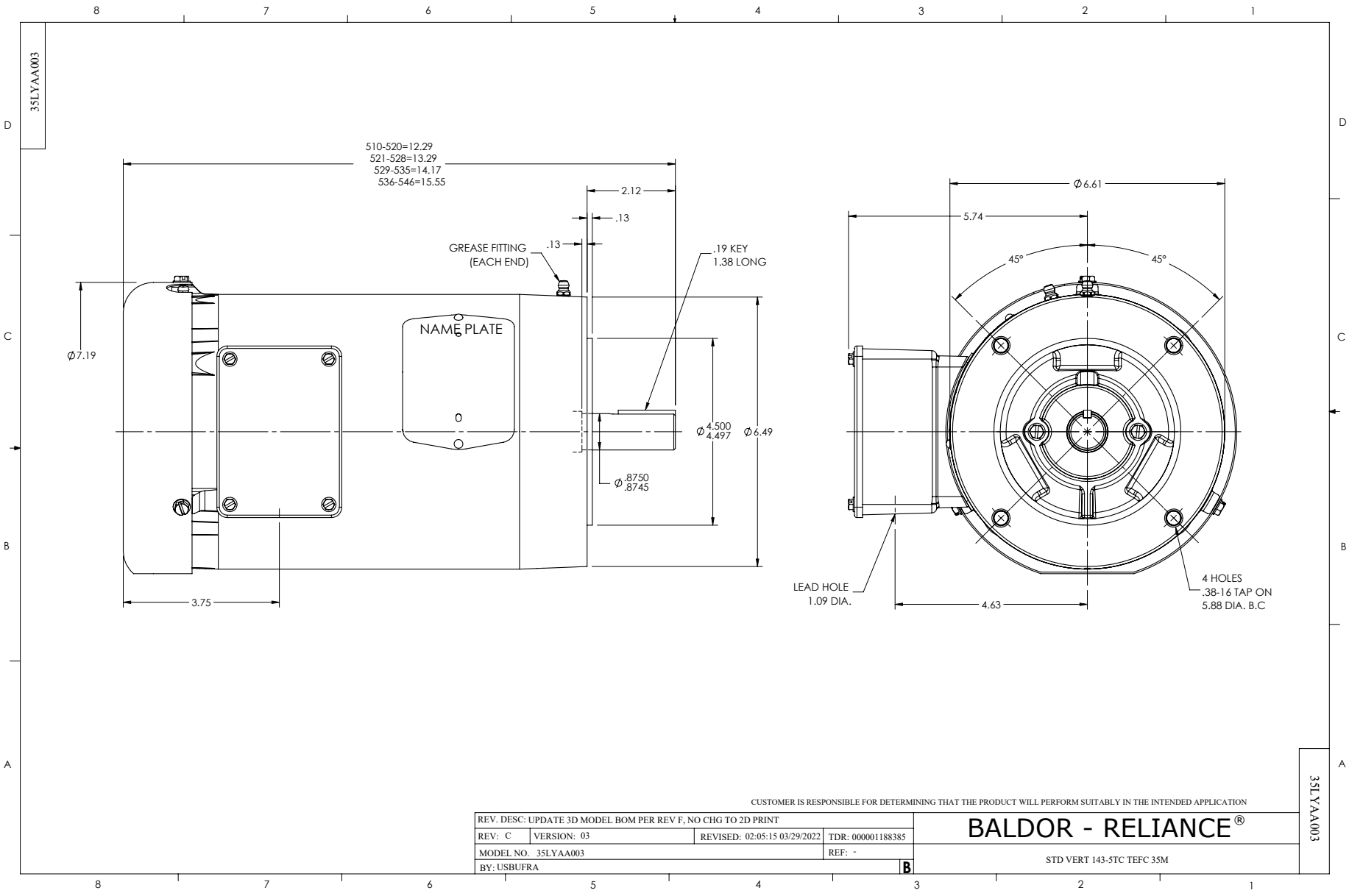
WINDING # 35WGL051

3 HP 3 PH 60 HZ 3450 RPM 460 V 3528M

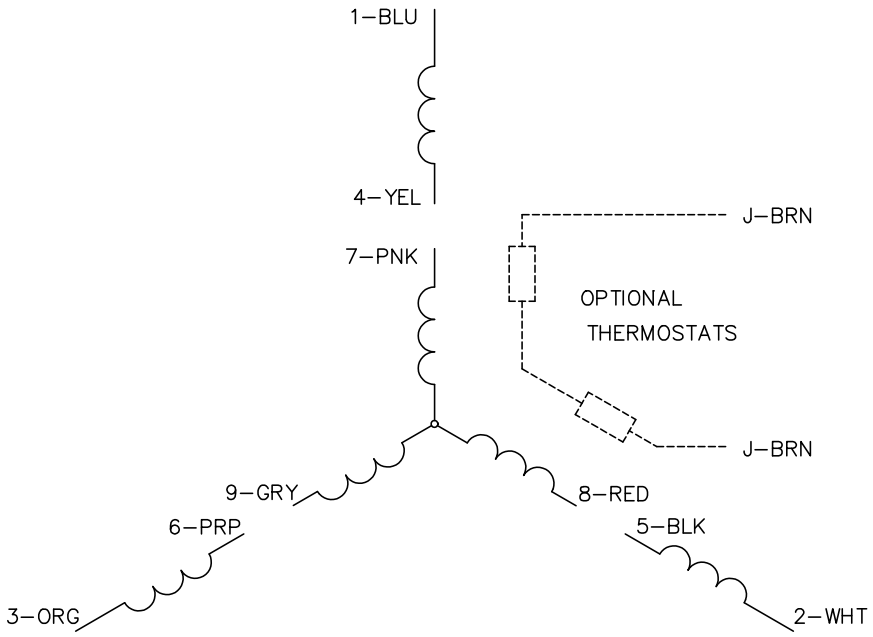
Typical performance - not guaranteed values.

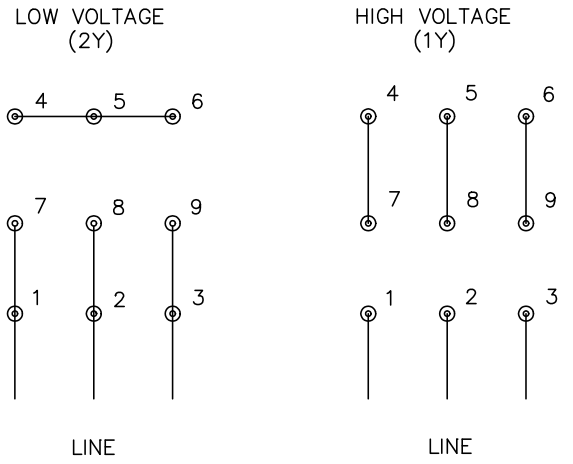
TORQUES(LB-FT): PO=18.7 PU=12.2 LR=17.3 LRA=32




35LYAA003
510-520=12.29
521-528=13.29
529-535=14.17
536-546=15.55
2.12
.13
.13
GREASE FITTING
(EACH END)
.19 KEY
1.38 LONG
NAME PLATE
Ø7.19
Ø 4.500
4.497
Ø6.49
Ø .8750
.8745
3.75
Ø6.61
5.74
45°
45°
LEAD HOLE
1.09 DIA.
4.63
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV F, NO CHG TO 2D PRINT
REV: C
VERSION: 03
REVISED: 02:05:15 03/29/2022
TDR: 000001188385
MODEL NO. 35LYAA003
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
STD VERT 143-5TC TEFC 35M
35LYAA003

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS