ABB BALDOR RELIANCE

Customer information packet

VEM3555T-57

2HP, 2900RPM, 3PH, 50HZ, 145TC, 3532M, TEFC, F1
Class - None
Division - Not Applicable

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11/18/2026 8:14:30 AM

Specifications

Enclosure	TEFC
Frame	145TC
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	3000 RPM @ 50 HZ
Voltage @ Frequency	230.0 V @ 50 HZ
	400.0 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	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.900 A @ 400.0 V
	5.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	N
Type	AC
Mech. spec.	35AA003
Base	
Status	PRD/A
Elec. spec.	35WGQ064
Layout	35LYAA003
Eff. date	05-07-2024
CD Diagram	CD0022
Poles	02
Leads	6#18
Proprietary	False
Created date	12-22-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.9 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.17 IN
Power Factor	88
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	2900 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	VEM3555T-57										
SPEC.	35AA003Q064G1										
HP	2/1.5KW						**PH**	3			
VOLTS	230/400										
AMP	5/2.9										
R.P.M. (1/MIN)	2900										
FRAME	145TC		**HZ**	50				**I.P.**	44		
SER.F.	1.15	**CODE**	M	**DES**	B			**CL**	B		
NOM.EFF.	84.2			**% (100%)**							
PF	88										
RATING	40C AMB-S1 CONT					**CC**					
DE BRG	6205			**ODE**	6203						
ENCL	TEFC	**SN**									
BLANK	IE3-83.5(75%)79.8(50%)										
	IC411 23KG										

AC Induction Motor Performance Data
Record # 54633
Typical performance - not guaranteed values

Winding: 35WGQ064-R004	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**400 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3.55 LB-FT
Volts			230/400	**Start Configuration**	direct on line
Full Load Amps			5/2.9	**Breakdown Torque**	17.8 LB-FT
R.P.M.			2900	**Pull-up Torque**	11.5 LB-FT
Hz	50	**Phase**	3	**Locked-rotor Torque**	16.4 LB-FT
NEMA Design Code	N	**KVA Code**	M	**Starting Current**	30.7 A
Service Factor (S.F.)			1.15	**No-load Current**	1.4 A
NEMA Nom. Eff.	84.2	**Power Factor**	88	**Line-line Res. @ 25ºC**	4.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	51°C
				Locked-rotor Power Factor	58.4
				Rotor inertia	0.0876 LB-FT2

Load Characteristics 400 V, 50 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	71	83	88	90	92	89
Efficiency	70.4	80.6	83.9	84.9	84.8	84	84.8
Speed	2976	2954	2931	2908	2881	2855	2892
Line amperes	1.53	1.87	2.3	2.84	3.42	4.05	3.19

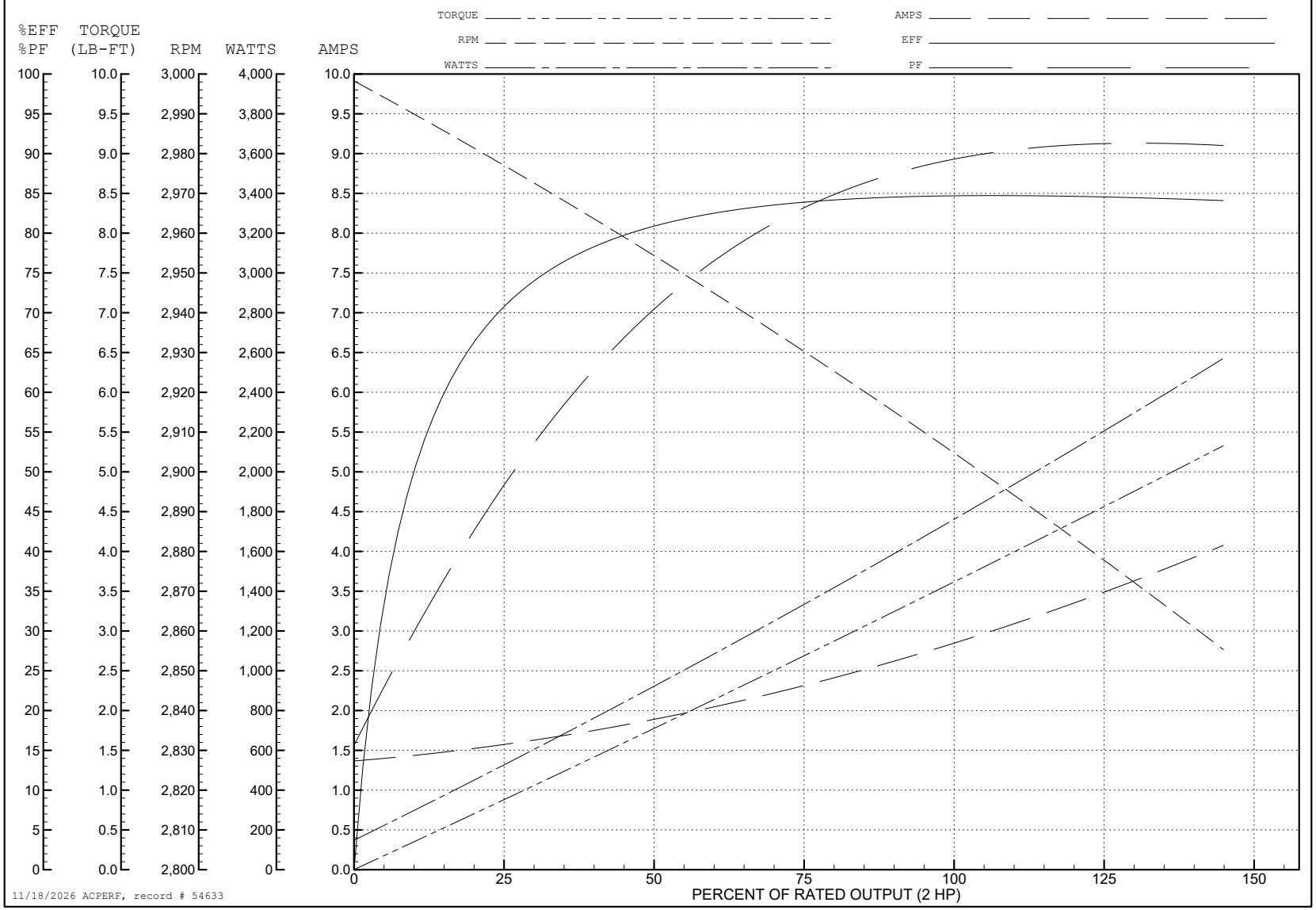
ABB Motors and Mechanical Inc.

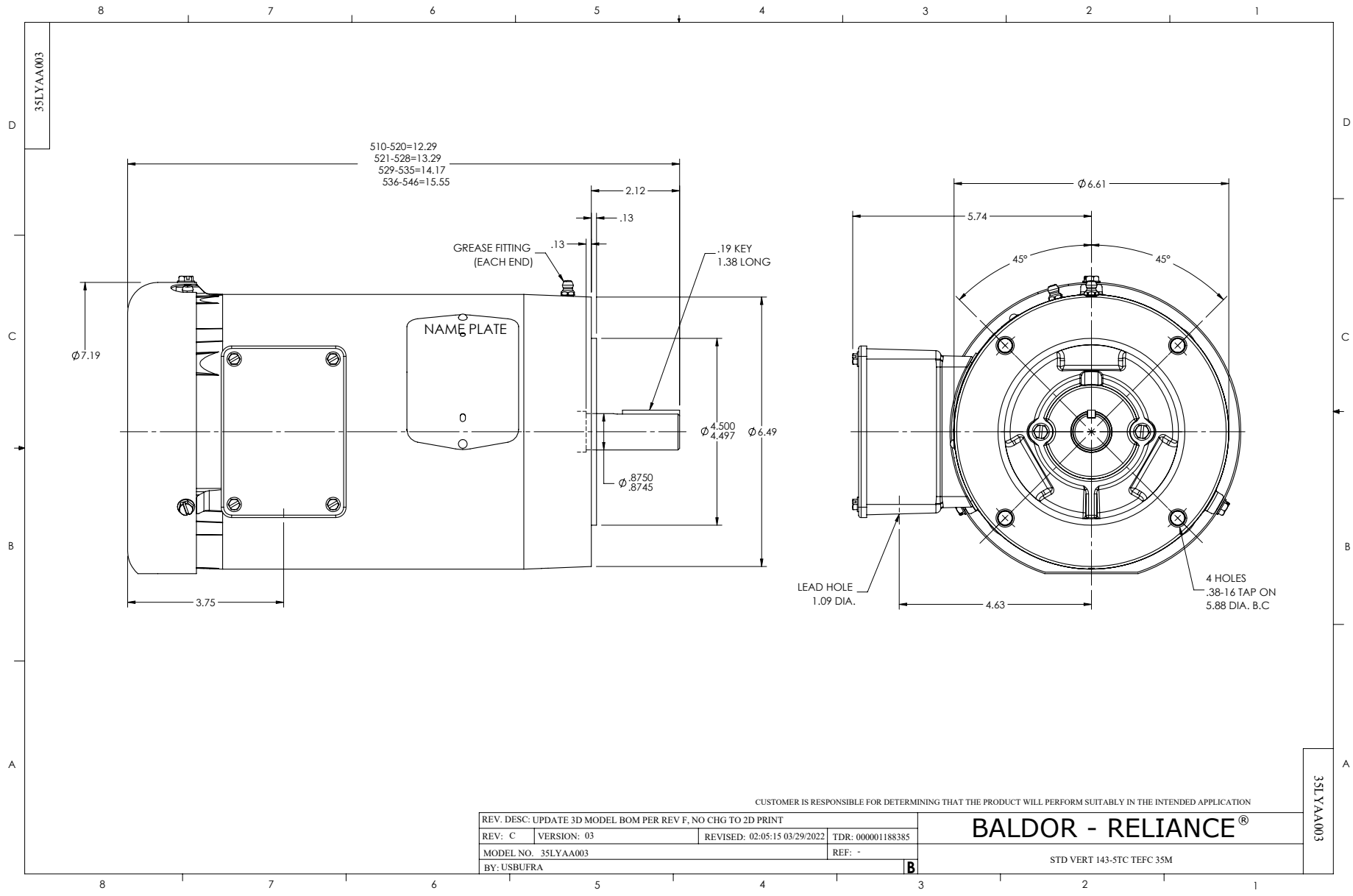
WINDING # 35WGQ064

2 HP 3 PH 50 HZ 2900 RPM 400 V 3532M

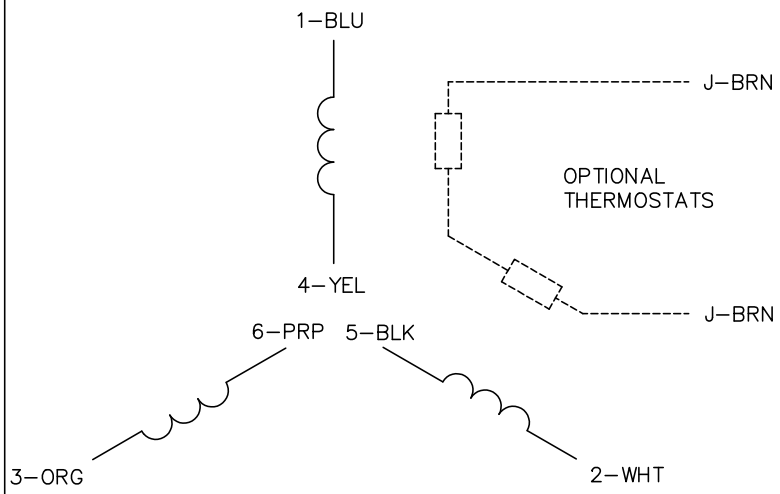
Typical performance - not guaranteed values.

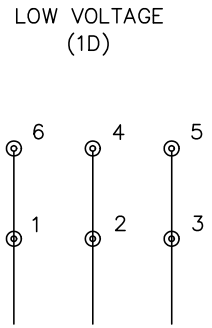
TORQUES(LB-FT): PO=17.8 PU=11.5 LR=16.4 LRA=30.7

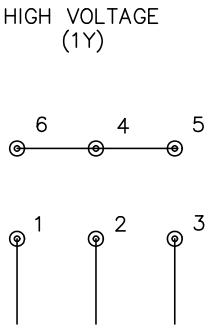



35LYAA003
510-520=12.29
521-528=13.29
529-535=14.17
536-546=15.55
2.12
.13
.13
GREASE FITTING
(EACH END)
.19 KEY
1.38 LONG
NAME PLATE
Ø7.19
Ø 4.500
4.497
Ø6.49
Ø .8750
.8745
3.75
Ø6.61
5.74
45°
45°
LEAD HOLE
1.09 DIA.
4.63
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT 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

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