ABB BALDOR RELIANCE

Customer information packet

VEBM3546T-5D

1HP, 1774RPM, 3PH, 60HZ, 143TC, 3522M, TEFC, F3
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	143TC
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	1.000 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	1.300 A @ 575.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M

Part Detail

Revision	D
Type	AC
Mech. spec.	35X050
Base	
Status	PRD/A
Elec. spec.	35WGG119
Layout	35LYX050
Eff. date	04-16-2024
CD Diagram	CD0006
Poles	04
Leads	3#18 Y
Proprietary	False
Created date	01-10-2022

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	3522M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	17.19 IN
Power Factor	70
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
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	1775 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.	VEBM3546T-5D									
SPEC.	35X050G119G1									
HP	1									
VOLTS	575									
AMP	1.3									
RPM	1775									
FRAME	143TC	**HZ**	60				**PH**	3		
SER.F.	1.15	**CODE**	M	**DES**	B	**CL**	F			
NEMA-NOM-EFF	85.5	**PF**	70							
RATING	40C AMB-CONT									
CC	010A									
DE	6205	**ODE**	6205							
ENCL	TEFC	**SN**								
	SFA 1.4									

AC Induction Motor Performance Data
Record # 99012
Typical performance - not guaranteed values

Winding: 35WGG119-R001	**Type:** 3522M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1	**Full Load Torque**	2.99 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.3	**Breakdown Torque**	13.4 LB-FT
R.P.M.			1775	**Pull-up Torque**	6.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.3 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	10.9 A
Service Factor (S.F.)			1.15	**No-load Current**	0.87 A
NEMA Nom. Eff.	85.5	**Power Factor**	70	**Line-line Res. @ 25ºC**	30.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps			1.4	**Temp. Rise @ S.F. Load**	42°C
				Locked-rotor Power Factor	63.4
				Rotor inertia	0.159 lb-ft²

Load Characteristics 575 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	48	61	70	76	80	74
Efficiency	72.1	81.6	84.9	85.8	85.7	85	85.7
Speed	1794	1787	1781	1774	1767	1758	1770
Line amperes	0.89	0.97	1.1	1.26	1.44	1.65	1.37

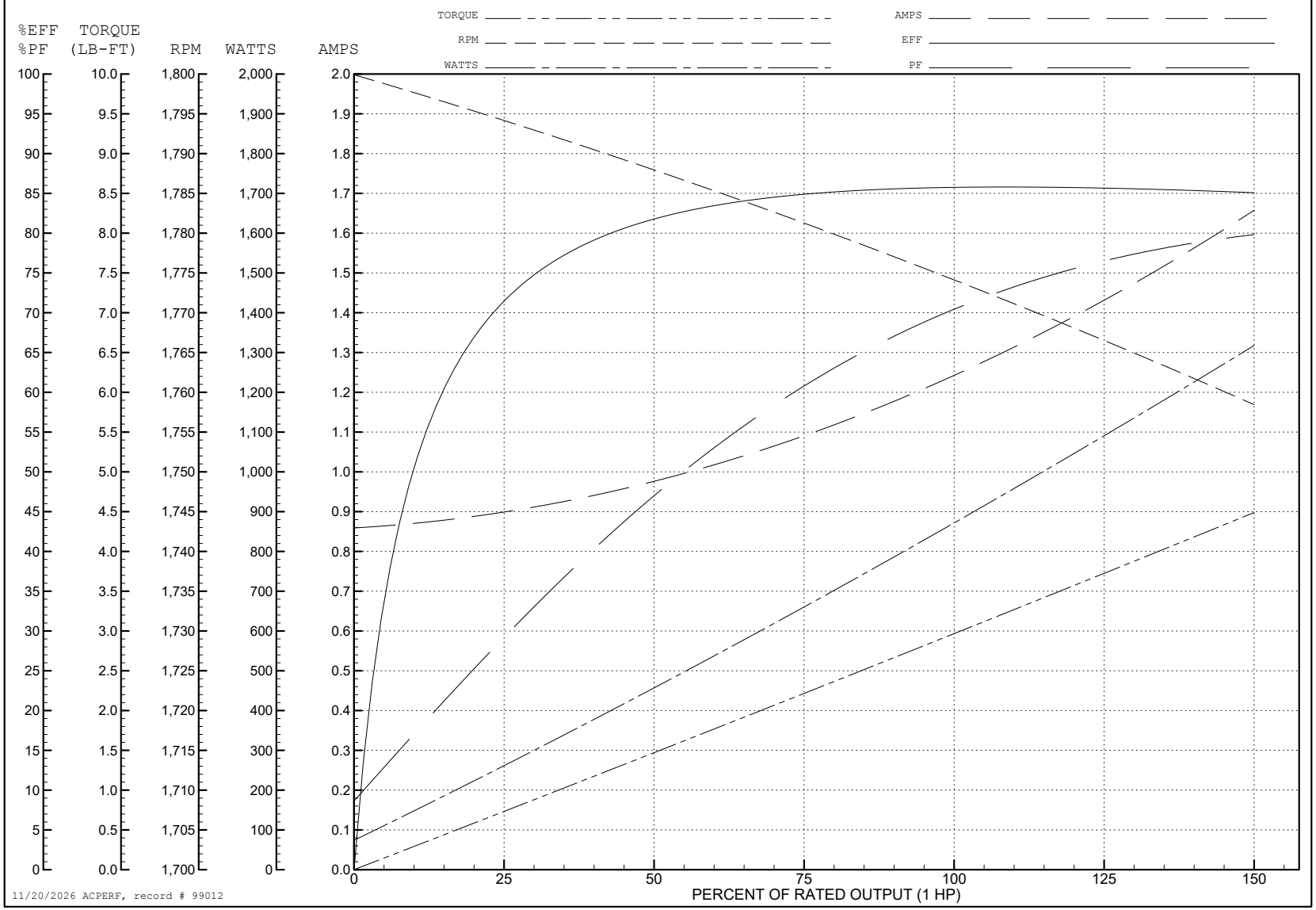
ABB Motors and Mechanical Inc.

WINDING # 35WGG119

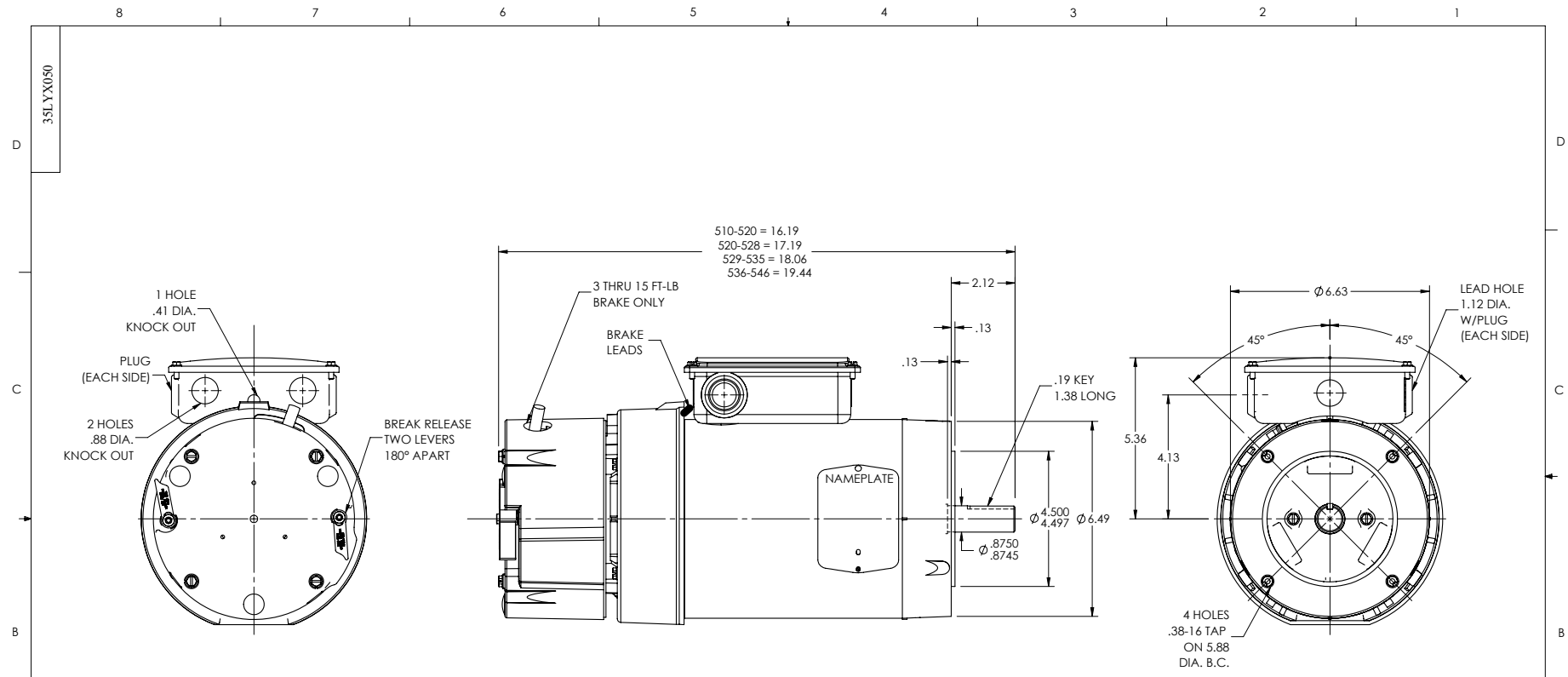
1 HP 3 PH 60 HZ 1775 RPM 575 V 3522M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=13.4 PU=6.8 LR=8.3 LRA=10.9



11/20/2026 ACPERF, record # 99012



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: ADD SECOND PLUG (WD4101A13) TO BOX			
REV: E	VERSION: 05	REVISED: 02:28:20 11/30/2020	TDR: 000001154873
MODEL NO: 35LYX050			REF: -
BY: USJOCUR	Material: -		B

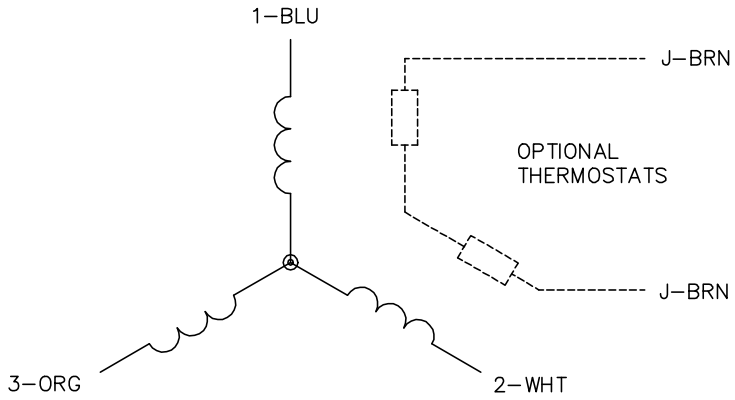
BALDOR - RELIANCE®

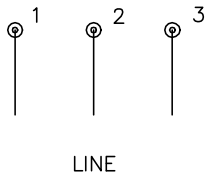
VERT 143-5TC TEFC 35M W/DODGE 'D' SERIES #3-15 LB-FT BRAKE
SH 1 of 1

35LYX050

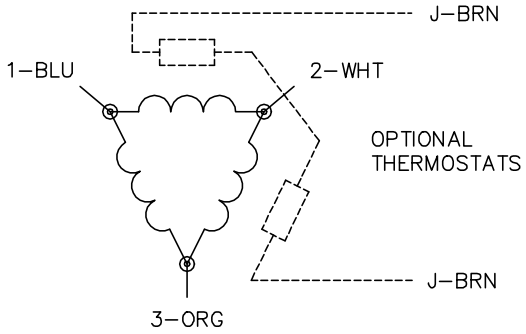
CD0006

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

CD2120

WIRING CONNECTIONS (1 PHASE VAC)

	POWER LINE A	POWER LINE B	CAP TOGETHER	CAP ALONE
AC LOW VOLT.	B1	B2	B3 & B5	B4
AC HIGH VOLT.	B1 & B5	B2	---	B3 CAP ALONE B4 CAP ALONE
DC VOLT.	B1	B2	B3 & B5	B4

B1 WHITE
B2 BLACK
B3 GRAY
B4 BLUE
B5 RED

CD2120

REV. DESC: NEW			BALDOR • DODGE • RELIANCE
REV. LTR: –	VERSION: 00	TDR: 000000741785	
FILE: \CKA\00037\282		REVISED: 12:28:11 04/12/2012	D–SERIES MOTOR BRAKE 5LD AC\DC
MTL: –		BY: CKRONS0	SH 1 of 1