ABB BALDOR RELIANCE

Customer information packet

VEUHM3558T-5

2/1.5KWHP, 1764 1/MINRPM, 3PH, 60HZ, 145TC, 3
Class - None
Division - Not Applicable

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9/7/2026 9:37:45 AM

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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CE
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	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	2.150 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	E
Type	AC
Mech. spec.	35W819
Base	
Status	PRD/A
Elec. spec.	35WGG113
Layout	35LYW819
Eff. date	04-16-2024
CD Diagram	CD0006
Poles	04
Leads	3#18 Y
Proprietary	False
Created date	01-10-2022

High Voltage Full Load Amps	2.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
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	3528M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	13.29 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
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	1764 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

NP4304L									
CAT.NO.	VEUHM3558T-5								
SPEC.	35W819G113G1								
HP	2/1.5KW				**PH**	3			
VOLTS	575								
AMPS	2.15								
R.P.M. (1/MIN)	1764 1/MIN				**WT.**	21KG	**KG**		
FRAME	145TC	**HZ**	60		**I.P.**	44			
SER.F.	1.15	**CODE**	L	**DES.**	B	**CLASS**	F		
NOM.EFF.	86.5	**% (100%)**							
P.F.	80								
RATING	40C AMB-S1 CONT			**CC**	010A				
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
	IE3-86.5(75%)84.4(50%)								
	SFA 2.56								
	IC411								

AC Induction Motor Performance Data
Record # 81982
Typical performance - not guaranteed values

Winding: 35WGG113-R001	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			2	**Full Load Torque**	5.95 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2.15	**Breakdown Torque**	23.7 LB-FT
R.P.M.			1765	**Pull-up Torque**	14.43 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.45 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	19.89 A
Service Factor (S.F.)			1.15	**No-load Current**	1.39 A
NEMA Nom. Eff.	86.5	**Power Factor**	80	**Line-line Res. @ 25ºC**	15 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	58°C
S.F. Amps			2.56	**Temp. Rise @ S.F. Load**	70°C
				Locked-rotor Power Factor	57
				Rotor inertia	0.188 lb-ft²

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	34	54	68	76	81	84	79
Efficiency	77	84.7	86.6	86.3	85.3	83.7	85.7
Speed	1791	1783	1775	1766	1757	1745	1761
Line amperes	1.45	1.64	1.93	2.29	2.74	3.19	2.56

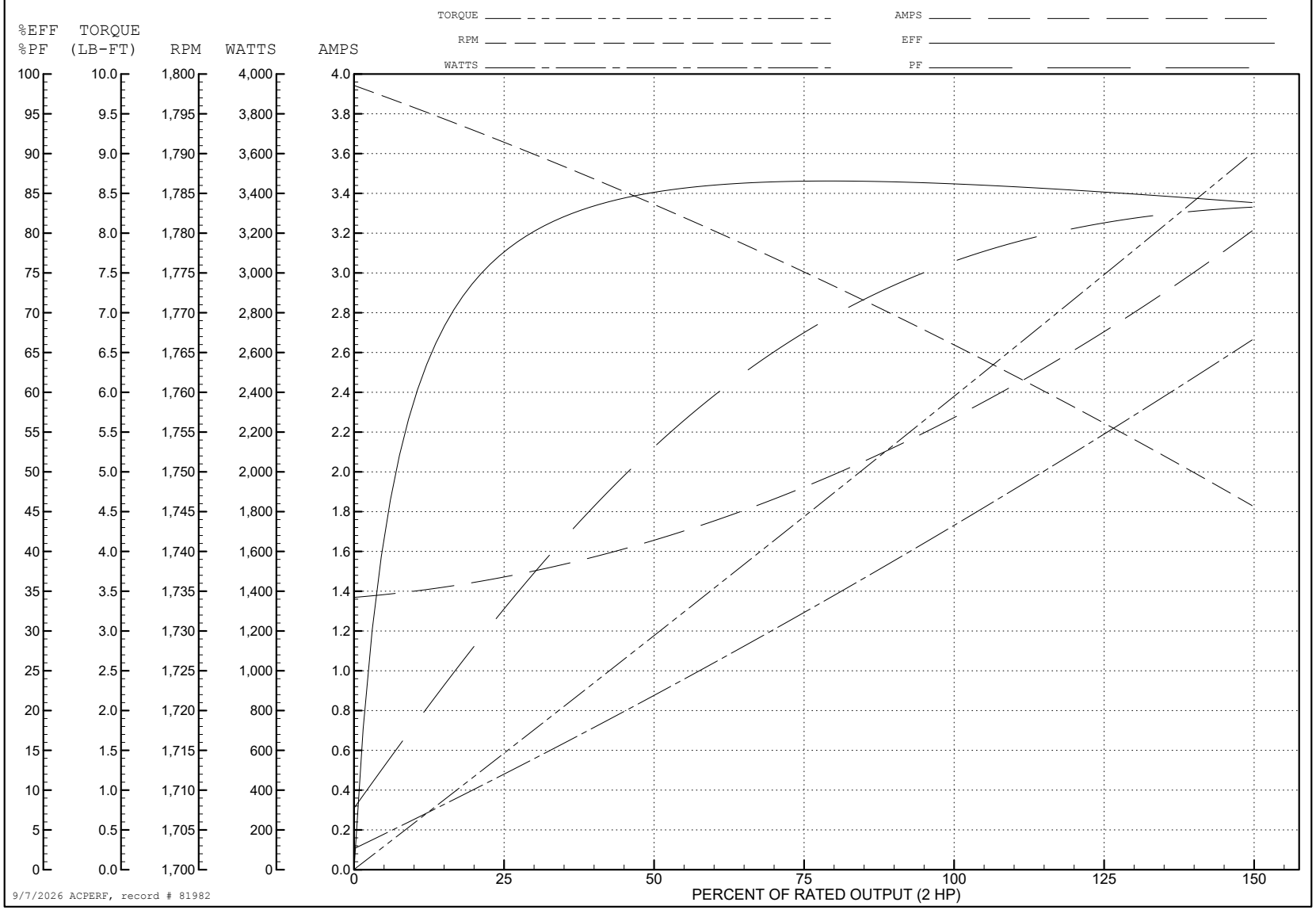
ABB Motors and Mechanical Inc.

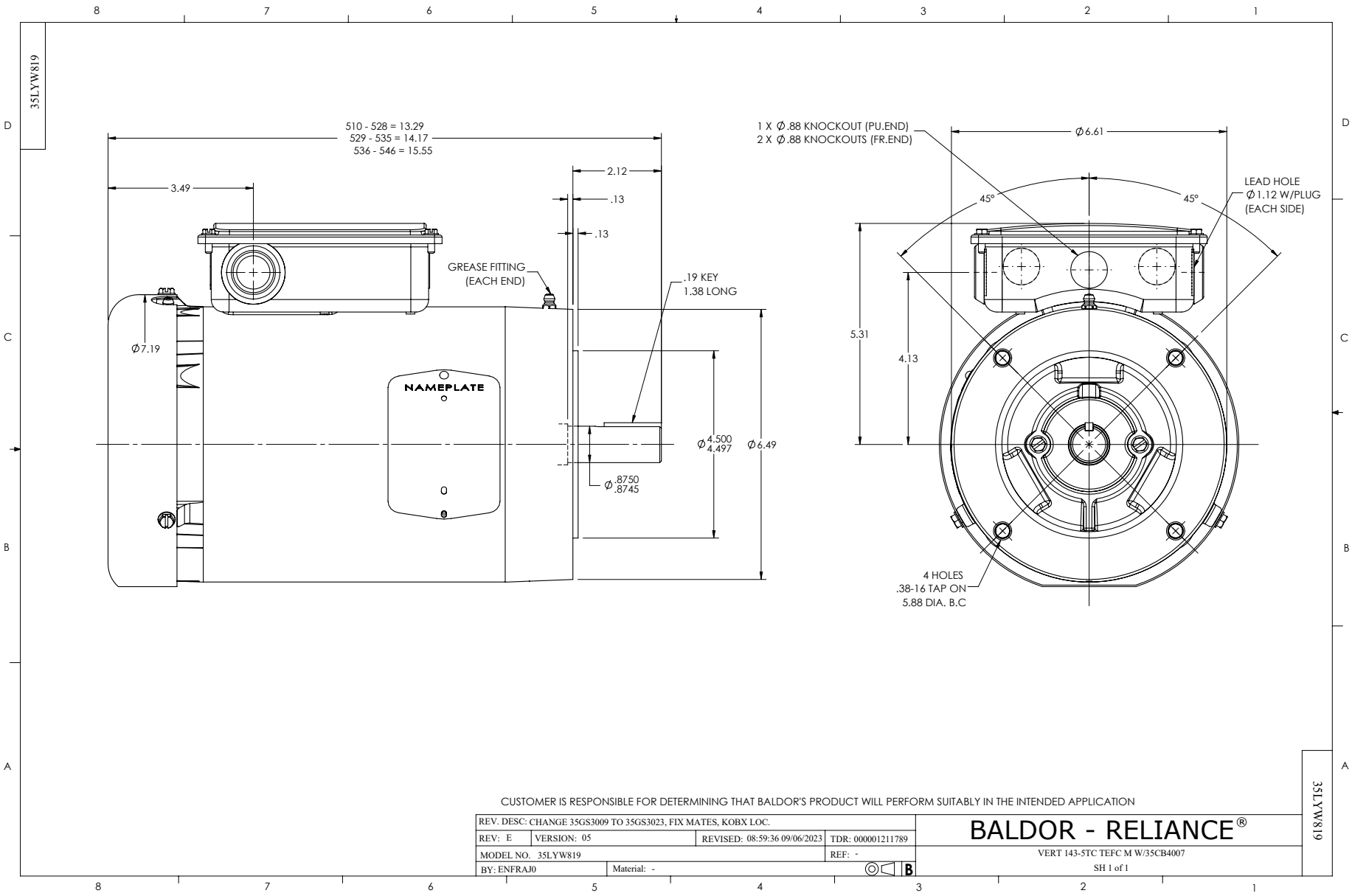
WINDING # 35WGG113

2 HP 3 PH 60 HZ 1765 RPM 575 V 3528M

Typical performance - not guaranteed values.

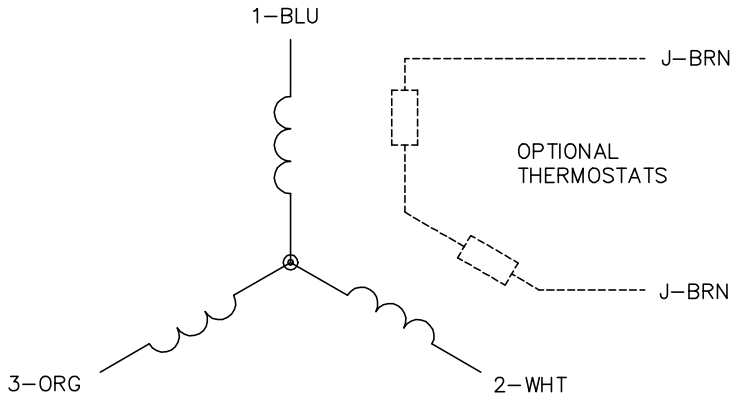
TORQUES(LB-FT): PO=23.7 PU=14.43 LR=17.45 LRA=19.89

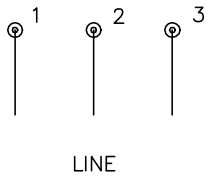



35LYW819
510 - 528 = 13.29
529 - 535 = 14.17
536 - 546 = 15.55
3.49
2.12
.13
.13
GREASE FITTING
(EACH END)
.19 KEY
1.38 LONG
Ø7.19
NAMEPLATE
Ø4.500
4.497
Ø6.49
Ø.8750
.8745
1 X Ø.88 KNOCKOUT (PU.END)
2 X Ø.88 KNOCKOUTS (FR.END)
Ø6.61
LEAD HOLE
Ø1.12 W/PLUG
(EACH SIDE)
45°
45°
5.31
4.13
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE 35GS3009 TO 35GS3023, FIX MATES, KOBX LOC.
REV: E
VERSION: 05
REVISED: 08:59:36 09/06/2023
TDR: 000001211789
MODEL NO. 35LYW819
REF: -
BY: ENFRAJ0
Material: -
B
BALDOR - RELIANCE®
VERT 143-5TC TEFC M W/35CB4007
SH 1 of 1
35LYW819

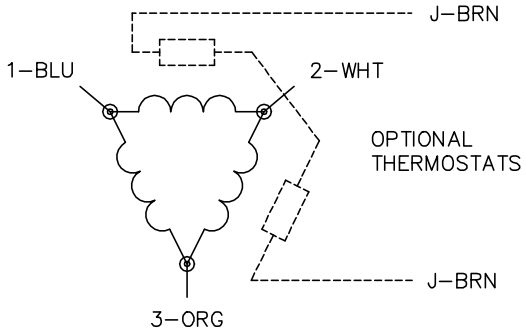
CD0006

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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1