ABB BALDOR RELIANCE

Customer information packet

EM3586T-BG

2HP, 3490RPM, 3PH, 60HZ, 145T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	145T
Frame Material	Iron
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	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	UR
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 @ 208.0 V
	5.000 A @ 230.0 V
	2.500 A @ 460.0 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
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	05WGX117
Layout	05LYH015
Eff. date	01-02-2026
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-08-2019

High Voltage Full Load Amps	2.5 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.54 IN
Power Factor	88
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	3490 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA											
CAT.NO.	EM3586T-BG										
SPEC	05-0000-0048										
HP	2										
VOLTS	230/460										
AMPS	5/2.5										
RPM	3490										
FRAME	145T	**HZ**	60	**PH**	3						
SF	1.15	**CODE**	M	**DES**	B	**CLASS**	H				
NEMA NOM. EFF	85.5	**PF**	88								
RATING	40C AMB-CONT										
CC	010A										
ENCL	TEFC	**SER**									
DE	6205	**ODE**	6203								
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1											

AC Induction Motor Performance Data
Record # 75451
Typical performance - not guaranteed values

Winding: 05WGX117-R004	**Type:** 0526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	2.98 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5/2.5	**Breakdown Torque**	14.2 LB-FT
R.P.M.			3490	**Pull-up Torque**	6.33 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11.2 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	25.9 A
Service Factor (S.F.)			1.15	**No-load Current**	0.912 A
NEMA Nom. Eff.	85.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	6.88 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	44°C
S.F. Amps				**Temp. Rise @ S.F. Load**	52°C
				Locked-rotor Power Factor	49.9
				Rotor inertia	0.0719 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	75	84	88	90	91	89
Efficiency	73.4	83.6	85.7	86.3	85.7	84.6	85.9
Speed	3572	3547	3520	3492	3461	3426	3473
Line amperes	1.1	1.47	1.93	2.44	3	3.61	2.78

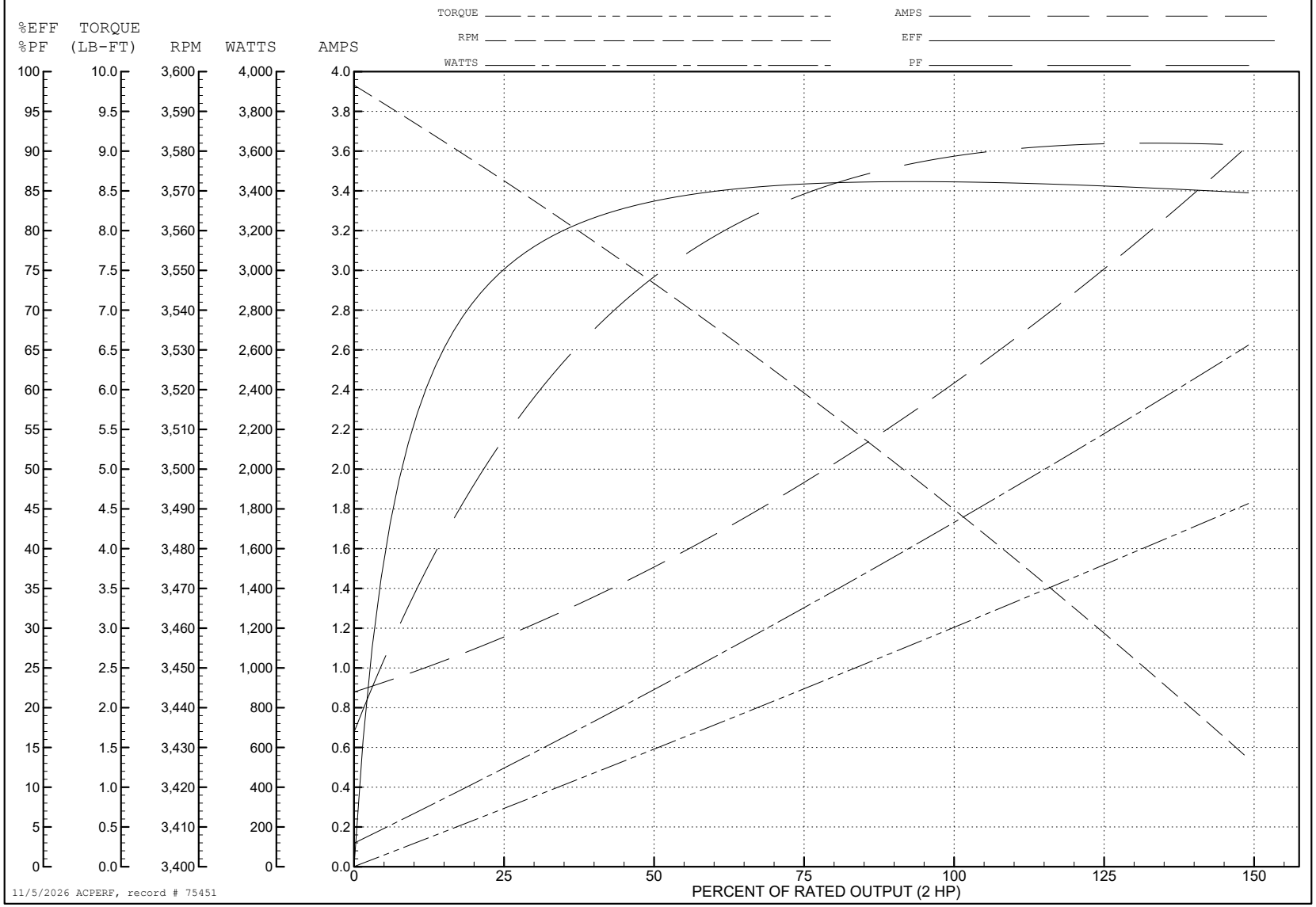
ABB Motors and Mechanical Inc.

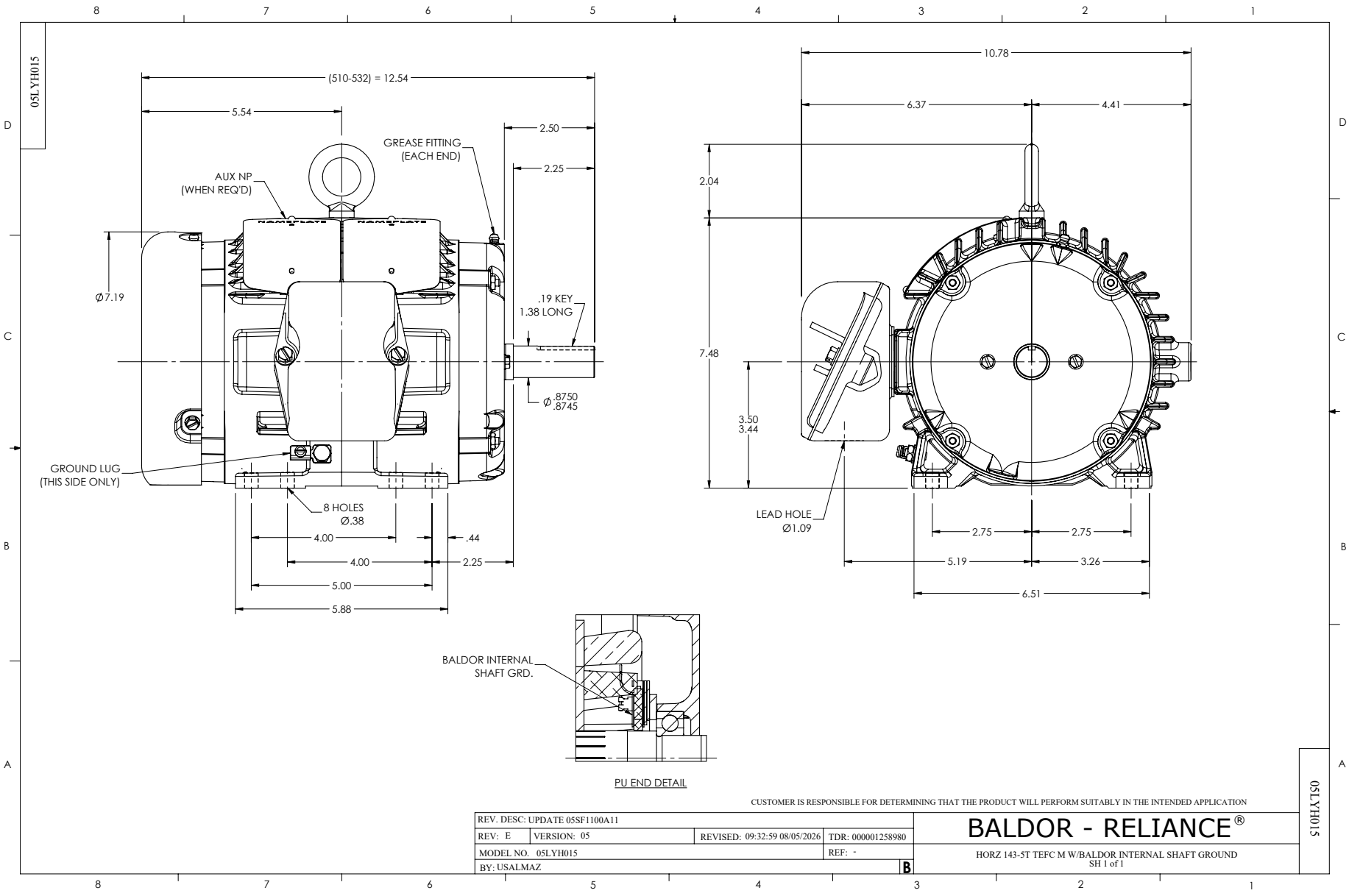
WINDING # 05WGX117

2 HP 3 PH 60 HZ 3490 RPM 460 V 0526M

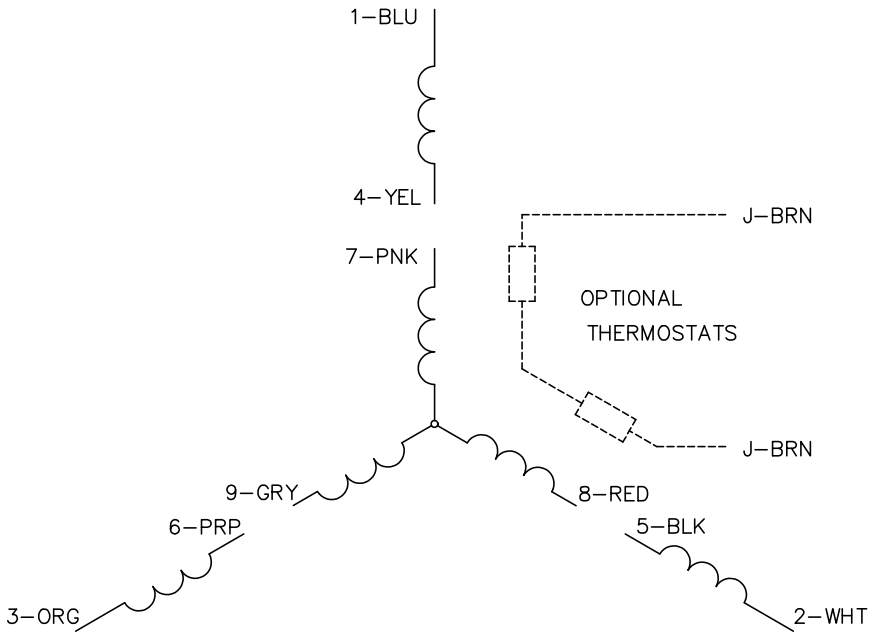
Typical performance - not guaranteed values.

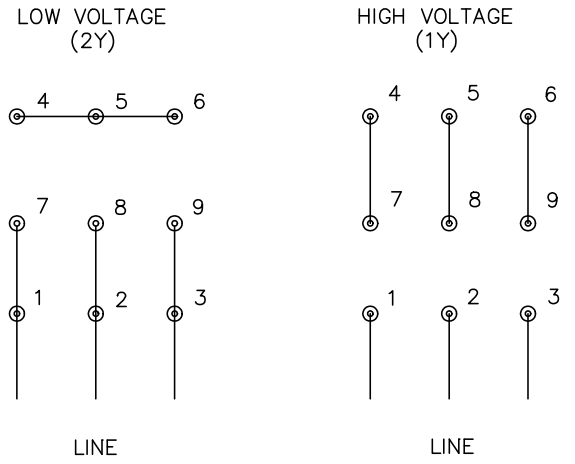
TORQUES(LB-FT): PO=14.2 PU=6.33 LR=11.2 LRA=25.9




05LYH015
(510-532) = 12.54
5.54
2.50
2.25
GREASE FITTING
(EACH END)
AUX NP
(WHEN REQ'D)
Ø7.19
.19 KEY
1.38 LONG
Ø .8750
.8745
GROUND LUG
(THIS SIDE ONLY)
8 HOLES
Ø.38
4.00
.44
4.00
2.25
5.00
5.88
10.78
6.37
4.41
2.04
7.48
3.50
3.44
LEAD HOLE
Ø1.09
2.75
2.75
5.19
3.26
6.51
BALDOR INTERNAL
SHAFT GRD.
PU END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 05SF1100A11
REV: E
VERSION: 05
REVISED: 09:32:59 08/05/2026
TDR: 000001258980
MODEL NO. 05LYH015
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
HORZ 143-5T TEFC M W/BALDOR INTERNAL SHAFT GROUND
SH 1 of 1
05LYH015

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