ABB BALDOR RELIANCE

Customer information packet

HBAO3586T

2 AOHP, -RPM, 3PH, 60HZ, 145T, 0532M, TEAO, F1
Class - None
Division - Not Applicable

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11/22/2026 11:07:12 AM

Specifications

Enclosure	TEAO
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
	CURUSEEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
	WEEE
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	5.400 A @ 208.0 V
	5.100 A @ 230.0 V
	2.550 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Electrically Isolated Bearings

Part Detail

Revision	H
Type	AC
Mech. spec.	05H189
Base	
Status	PRD/A
Elec. spec.	05WGW115
Layout	05LYH189
Eff. date	10-09-2023
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	09-21-2021

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	N
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0532M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.44 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
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

NP4312A01M05L

CAT # HBAO3586T **SER #** **CC** **WGT** 64 **LBS**

SPEC 05H189W115G2 **RATING** 40C AMB-CONT

HP	VOLTS	AMPS	MAG CUR	CODE	RPM	DES	PF	NEMA NOM. EFF
2 AO	230/460	5.1/2.55	2.2/1.1	N	3450	B	85	86.5
2.5AO	230/460	6.0/3.0	2.2/1.1	L	3450	A	87	84

PH 3 **CL** H **HZ** 60 **ENCL** TEAO **IP** 54 **SF** 1.15 AIR OVER

DE BRG 6205 **ODE BRG** 6203 **FRAME** 145T

INV TYPE: **VPWM** **SL HZ** 2.5 **CHP** **TO**

WK2 0.09 **LB FT2** **MAX RPM** 5400 **CT** **TO**

VT 3 **TO** 60 20:1

SFA 5.8/2.9

YR:

AC Induction Motor Performance Data
Record # 95851
Typical performance - not guaranteed values

Winding: 05WGW115-R034	**Type:** 0532M	**Enclosure:** TEAO

Nameplate Data				**230 V, 60 Hz: Low Voltage Connection**	
Rated Output (HP)			2 AIR OVER	**Full Load Torque**	3 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.1/2.55	**Breakdown Torque**	16 LB-FT
R.P.M.			3450	**Pull-up Torque**	12.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	60 A
Service Factor (S.F.)			1.15	**No-load Current**	2.2 A
NEMA Nom. Eff.	86.5	**Power Factor**	85	**Line-line Res. @ 25ºC**	1.25 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	31°C
S.F. Amps			5.8/2.9	**Temp. Rise @ S.F. Load**	36°C
				Locked-rotor Power Factor	45.4
				Rotor inertia	0.0885 lb-ft²

Load Characteristics 230 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	69	78	85	87	89	86
Efficiency	75.2	83.8	86.2	86.5	86.4	85.5	86.4
Speed	3571	3548	3525	3501	3476	3448	3486
Line amperes	2.56	3.3	4.18	5.1	6.16	7.28	5.74

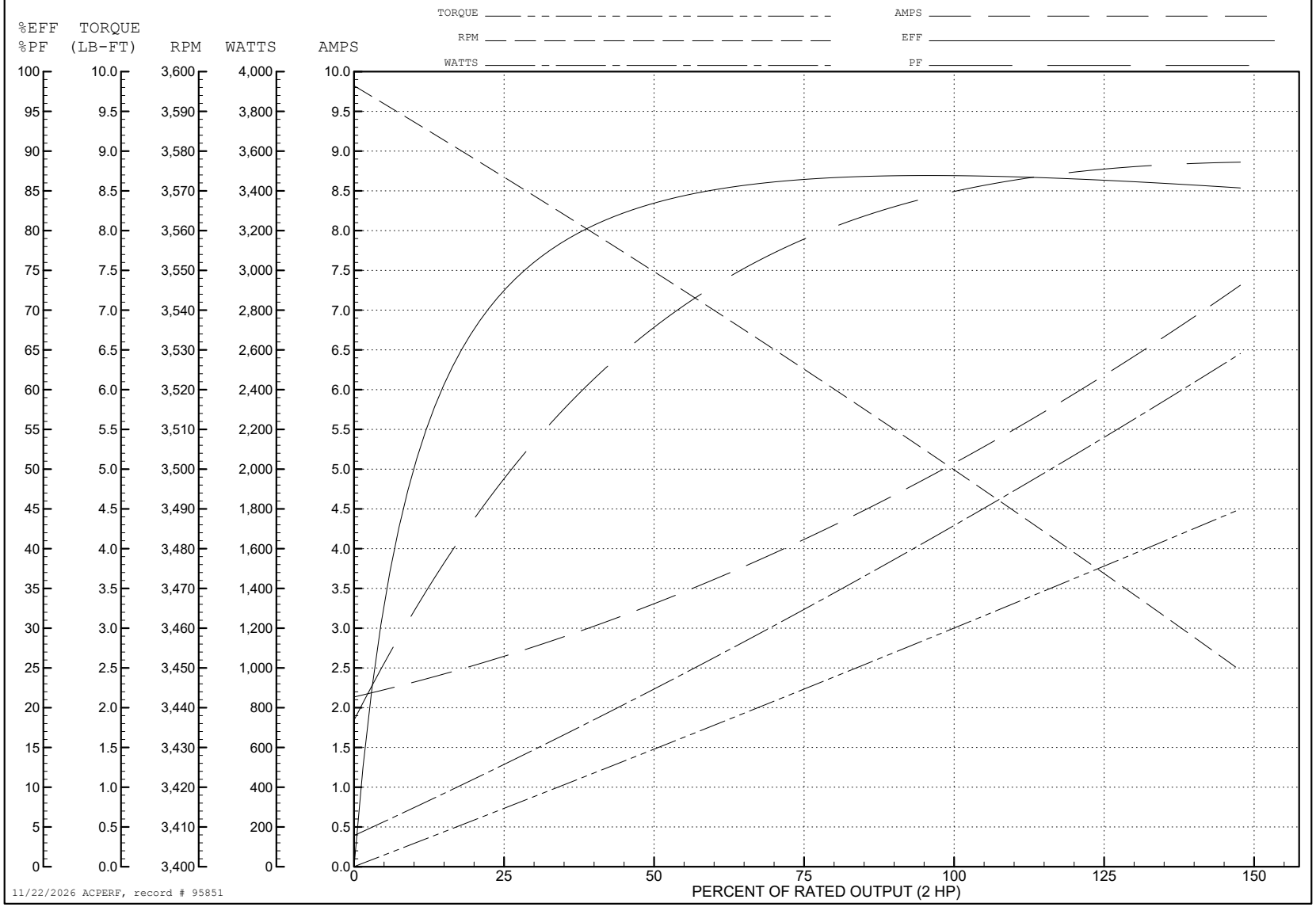
ABB Motors and Mechanical Inc.

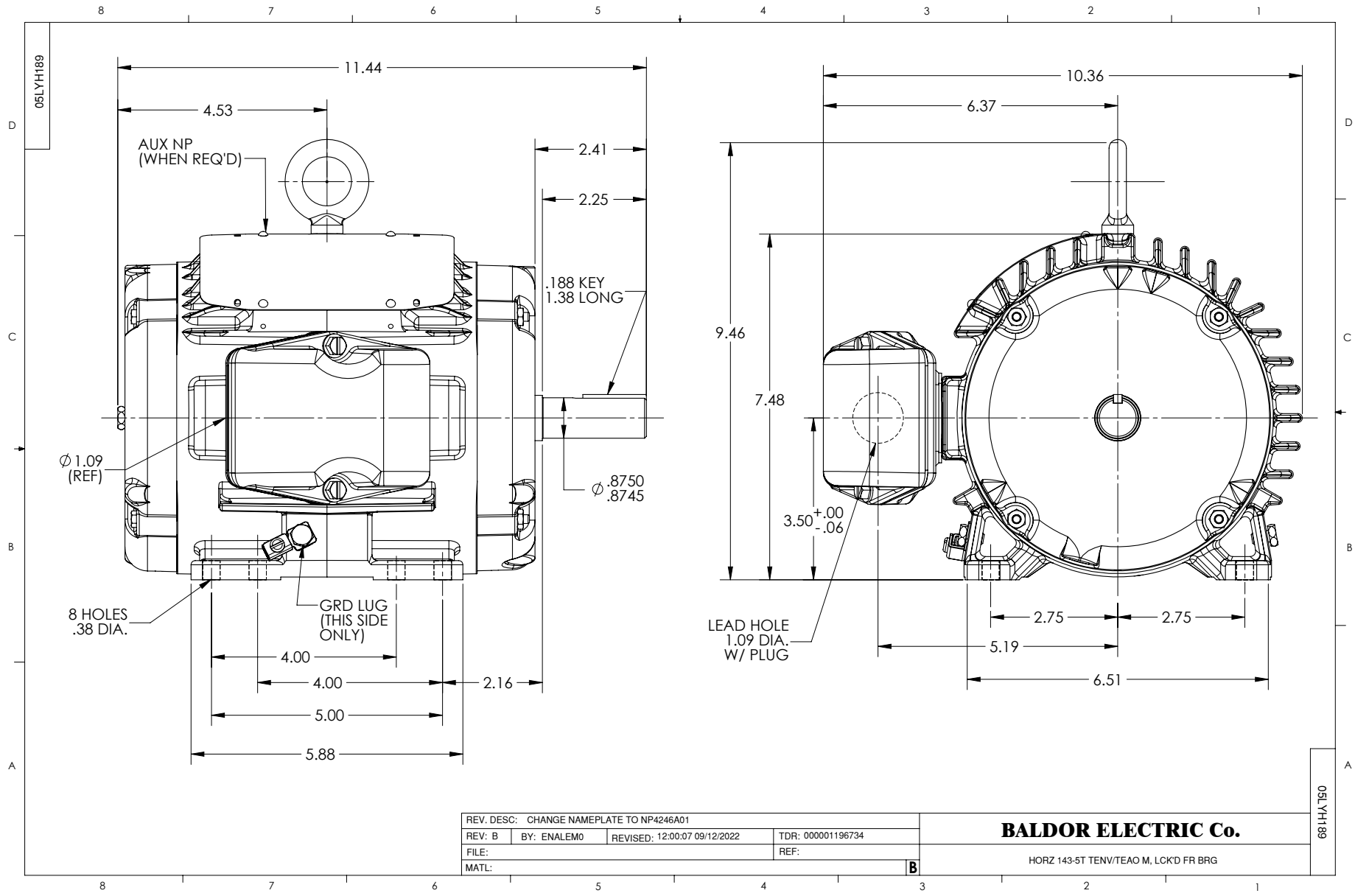
WINDING # 05WGW115

2 HP 3 PH 60 HZ 3450 RPM 230 V 0532M

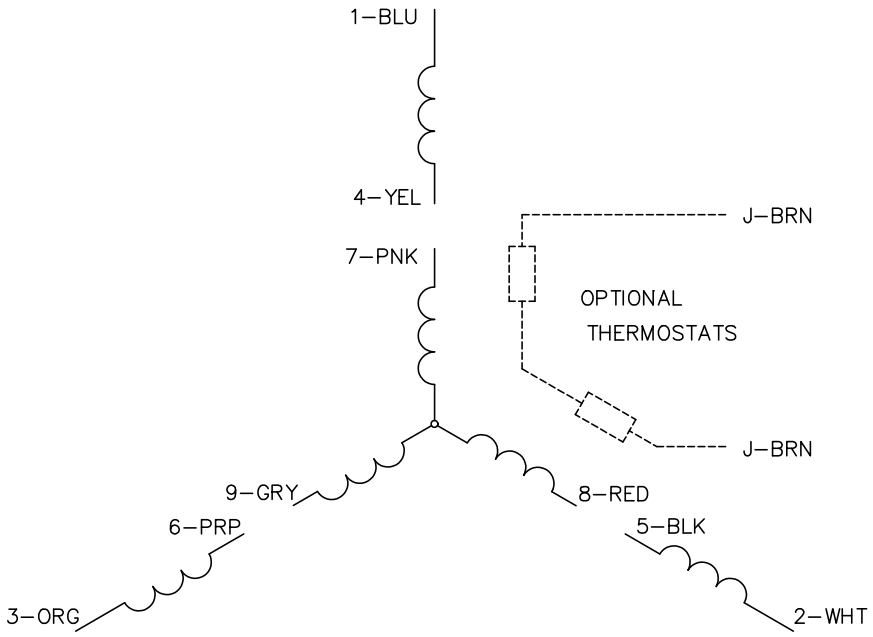
Typical performance - not guaranteed values.

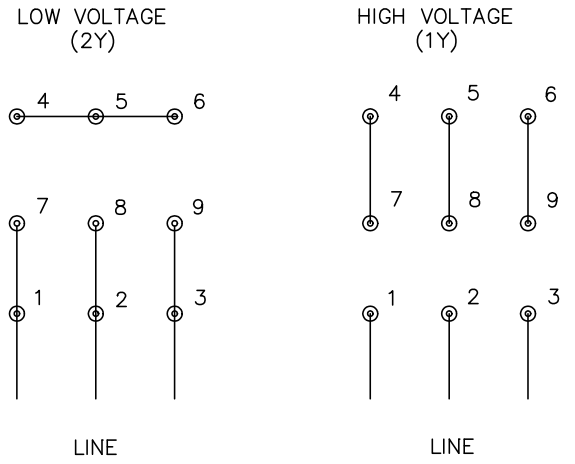
TORQUES(LB-FT): PO=16 PU=12.5 LR=16 LRA=60




05LYH189
11.44
4.53
AUX NP
(WHEN REQ'D)
2.41
2.25
.188 KEY
1.38 LONG
∅1.09
(REF)
∅.8750
.8745
8 HOLES
.38 DIA.
GRD LUG
(THIS SIDE
ONLY)
4.00
4.00
2.16
5.00
5.88
10.36
6.37
9.46
7.48
3.50 +.00 -.06
LEAD HOLE
1.09 DIA.
W/ PLUG
2.75
2.75
5.19
6.51
REV. DESC: CHANGE NAMEPLATE TO NP4246A01
REV: B
BY: ENALEM0
REVISED: 12:00:07 09/12/2022
TDR: 000001196734
FILE:
REF:
MATL:
B
BALDOR ELECTRIC Co.
HORZ 143-5T TENV/TEAO M, LCK'D FR BRG
05LYH189

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