ABB BALDOR RELIANCE

Customer information packet

IDNM3587T

2HP, 1755RPM, 3PH, 60HZ, 143TC, 0534M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	145TC
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	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	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	5.400 A @ 230.0 V
	2.700 A @ 460.0 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
High Voltage Full Load Amps	2.7 a
Insulation Class	H

Part Detail

Revision	F
Type	AC
Mech. spec.	05E534
Base	
Status	PRD/A
Elec. spec.	05WGX544
Layout	05LYE534
Eff. date	08-19-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0534M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.65 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP4544L									
CAT.NO.	IDNM3587T								
SPEC.	05E534X544G1								
FRAME	145TC		**H.P.**	2					
VOLTS	230/460								
MAG. CUR.	3.08/1.54				**F.L. AMPS**	5.4/2.7			
R.P.M.	1755				**R.P.M. MAX**	2700			
HZ.	60		**PH.**	3	**CLASS**	H			
SER.F.	1.00		**DES.**	B	**SL HZ**	1.5			
NEMA NOM. EFF.	86.5		**WK2**	0.245					
BLOWER		**V**		**PH**		**HZ**		**AMPS**	
RATING	40C AMB-CONT				**ENCL**	TENV			
DE	6205		**ODE**	6203					
CC	010A	**SN**							
	1000:1 CT/VT								

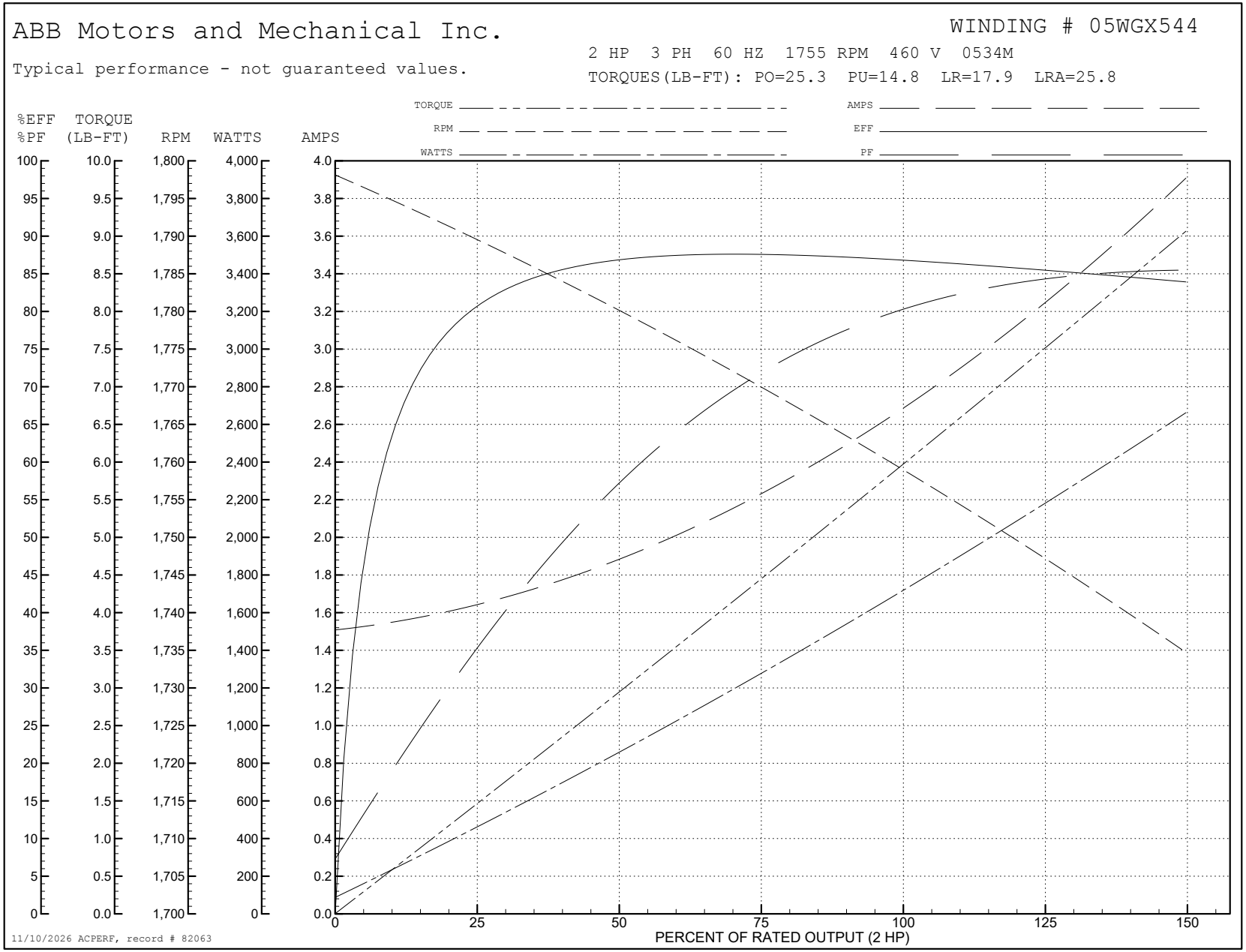
AC Induction Motor Performance Data
Record # 82063
Typical performance - not guaranteed values

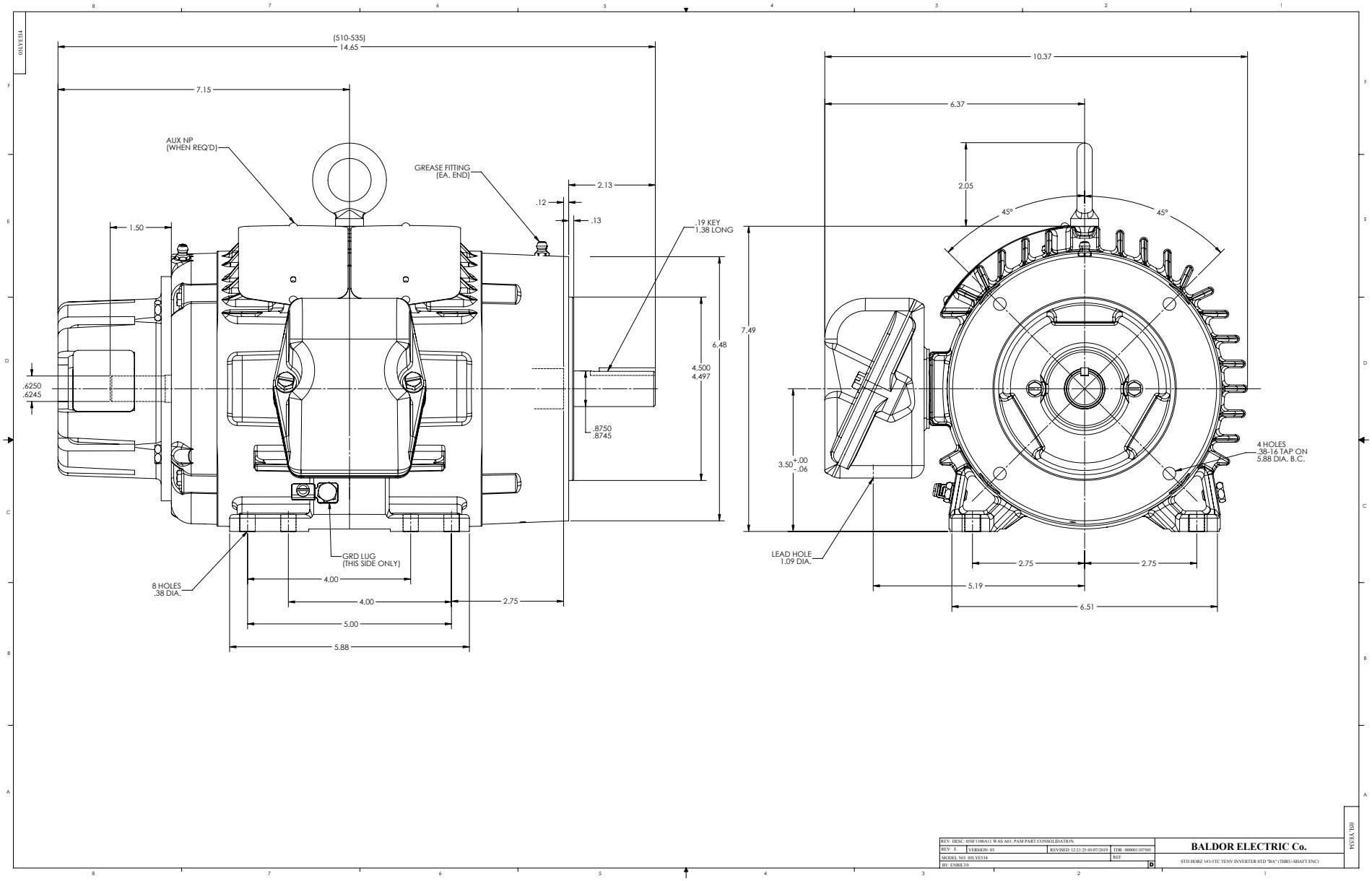
Winding: 05WGX544-R003	**Type:** 0534M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	5.98 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.4/2.7	**Breakdown Torque**	25.3 LB-FT
R.P.M.			1755	**Pull-up Torque**	14.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	17.9 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	25.8 A
Service Factor (S.F.)			1	**No-load Current**	1.54 A
NEMA Nom. Eff.	86.5	**Power Factor**	79	**Line-line Res. @ 25ºC**	8.23 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
				Locked-rotor Power Factor	54.6
				Rotor inertia	0.245 LB-FT2

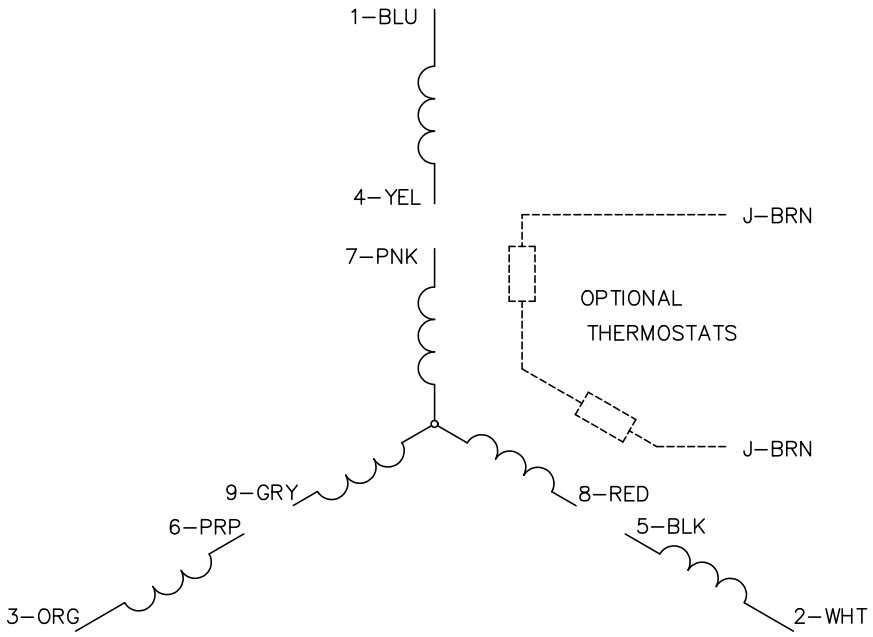
Load Characteristics 460 V, 60 Hz, 2 HP

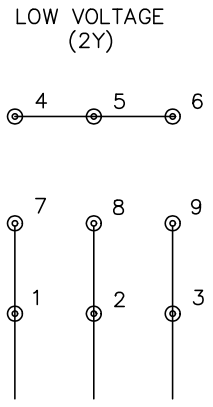
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	37	59	72	79	83	86
Efficiency	80	86.5	87.6	86.9	85.6	83.7
Speed	1788	1780	1770	1759	1748	1734
Line amperes	1.61	1.86	2.24	2.72	3.28	3.88

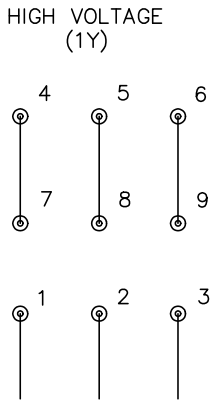

ABB Motors and Mechanical Inc.
WINDING # 05WGX544
Typical performance - not guaranteed values.
2 HP 3 PH 60 HZ 1755 RPM 460 V 0534M
TORQUES(LB-FT): PO=25.3 PU=14.8 LR=17.9 LRA=25.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (2 HP)
11/10/2026 ACPERF, record # 82063


(510-535)
14.65
7.15
AUX NP
(WHEN REQ'D)
GREASE FITTING
(EA. END)
2.13
.12
.13
.19 KEY
1.38 LONG
1.50
6.48
4.500
4.497
.6250
.6245
.8750
.8745
GRD LUG
(THIS SIDE ONLY)
8 HOLES
.38 DIA.
4.00
4.00
2.75
5.00
5.88
10.37
6.37
2.05
45°
45°
7.49
3.50 +.00 -.06
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C.
LEAD HOLE
1.09 DIA.
2.75
2.75
5.19
6.51
05E534
BALDOR ELECTRIC Co.
STD HORZ 143-5TC TENV INVERTER STD "BA" (THRU-SHAFT ENC)

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