

ABB BALDOR RELIANCE III

Customer information packet

IDNM3587T

2HP, 1755RPM, 3PH, 60HZ, 143TC, 0534M, TENV, F1

Class - None

Division - Not Applicable

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	E
Type	AC
Mech. spec.	05E534
Base	
Status	PRD/A
Elec. spec.	05WGX544
Layout	05LYE534
Eff. date	03-16-2026
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								

Parts List

Part number	Description	Quantity
SA408877	SA 05E534X544G1	1.000 ea
RA400424	RA 05E534X544G1	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
10XN2520A06	1/4 20X3/8 HX HD CAP	2.000 ea
06CB3000	BALDOR CONDUIT BOX CAST	1.000 ea
06GS1000	GASKET,CONDUIT BOX	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35EP1100B45	FRONT TENV 203 BRG W/GRSR & THRU-SHAFT E	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP1329A01	PU EP ENCL 143-5TC 205 BRG W/GRSR & STD	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
HA3100A28	THRUBOLT 10-32 X 8.187	4.000 ea
35FH4801G	THRU-SHAFT ENCODER COVER INV/VECTOR F1 &	1.000 ea
WD4129	1.50 X 1.50 GRAY SNAP IN PLUG PROMOULD #	2.000 ea
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	4.000 ea
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	1.000 ea
06CB3500	BALDOR CONDUIT BOX LID	1.000 ea
06GS1001	BALDOR CONDUIT BOX GASKET	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
MJ5004A05	#242-21 LOCTITE GENERAL PURPOSE MED. STR	0.005 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga

LC0145B01	CONNECTION LABEL	1.000 ea
NP4544L	ALUM INV UL EEV CC NEMA PREM W/ENCL	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

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. @ 25°C		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

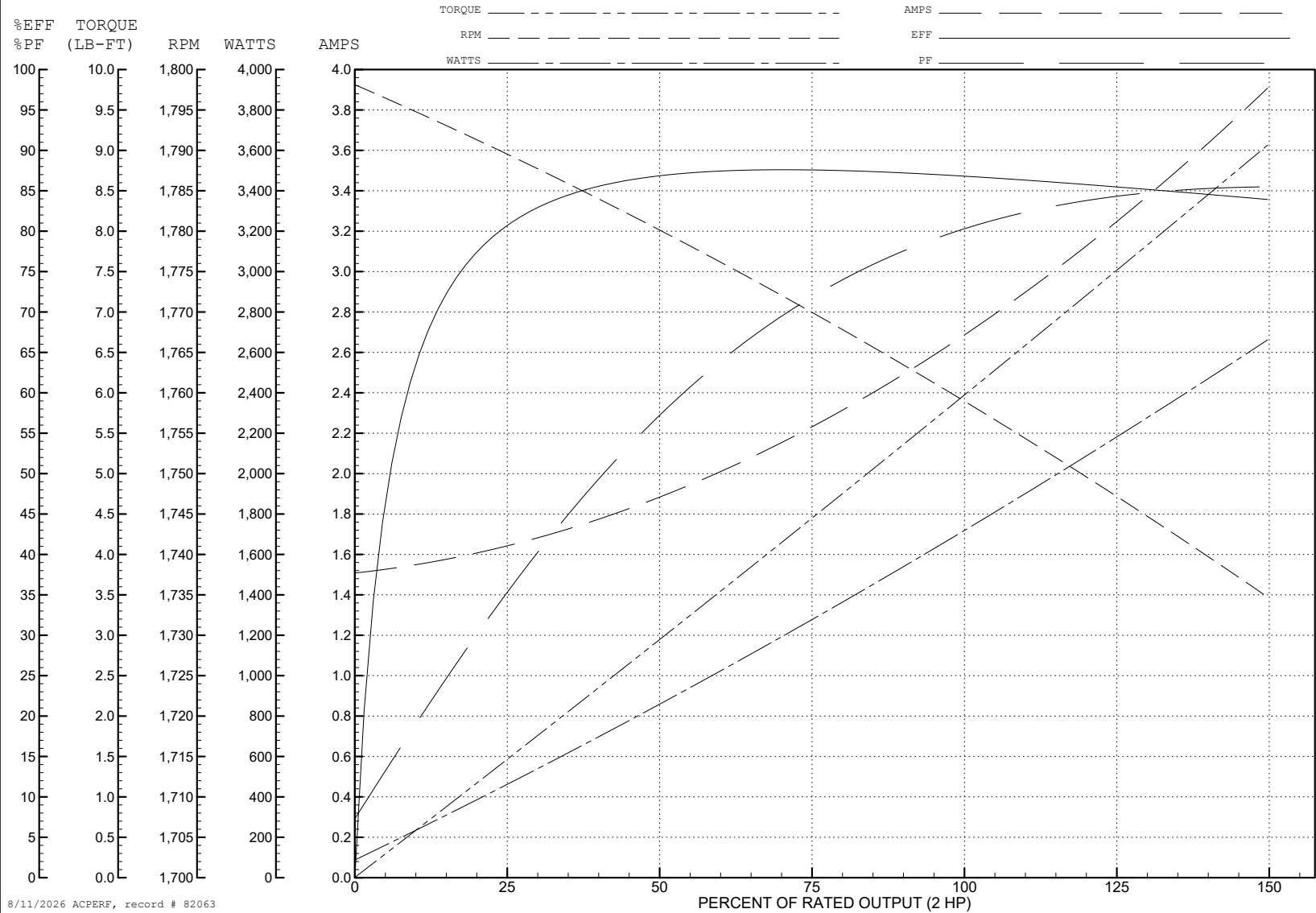
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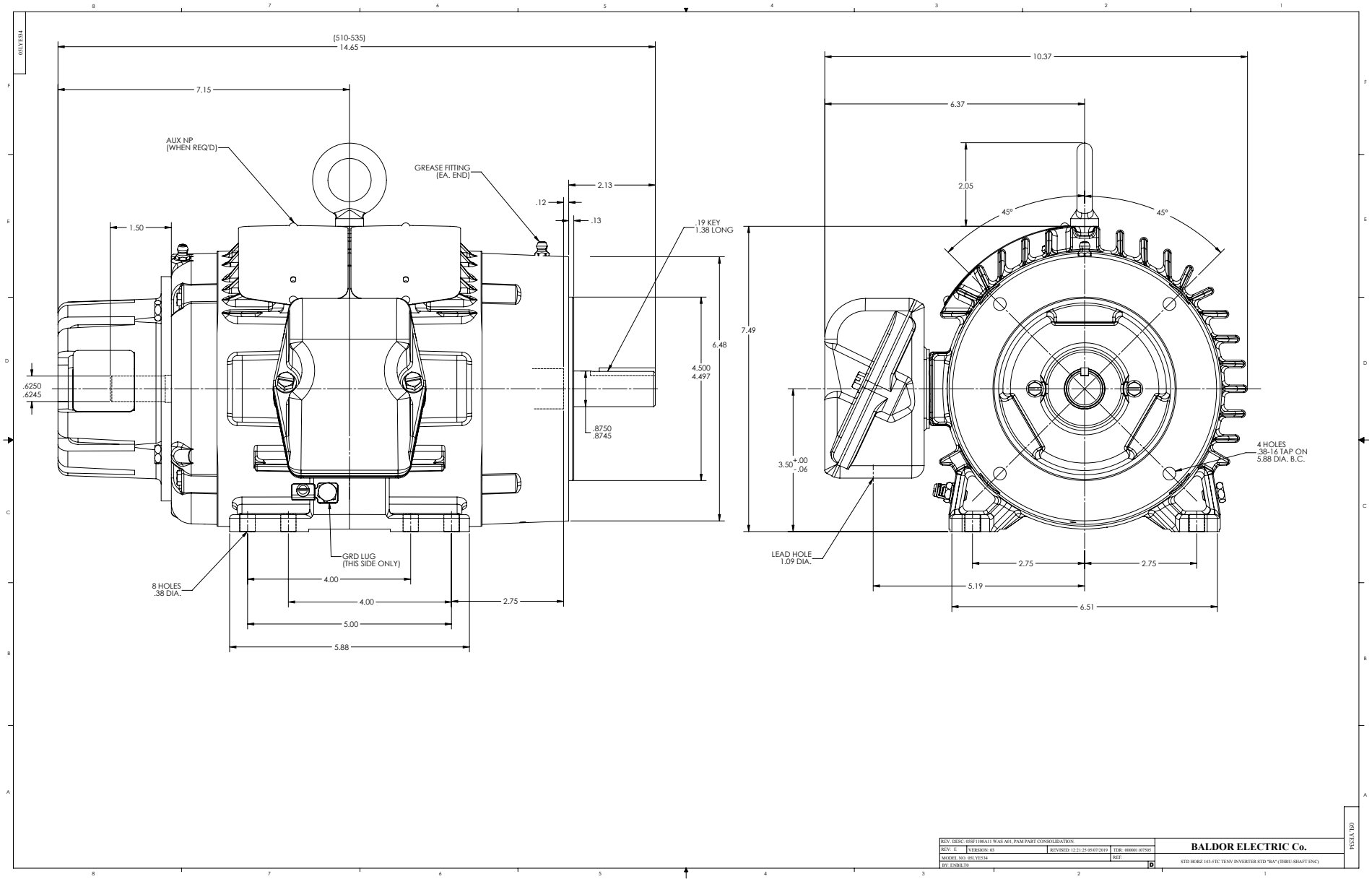
WINDING # 05WGX544

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





REV. DESC. 0007/10001 WAS NOT PART OF CONSULTATION			
REV. E	VERSION: 01	REVISED: 12/21/25 00/07/2019	TRD: 00000 107501
MODEL NO. 05E534		REF:	
BY: ENH139		10	
BALDOR ELECTRIC Co.			PS21A 130
STD 100RZ 143-5TC TENV INVERTER STD "M" (THRU-SHAFT) ENC			

