ABB BALDOR RELIANCE

Customer information packet

IDVSNM3584T

1.5HP, 1765RPM, 3PH, 60HZ, 145TC, 0528M, TENV
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	1.500 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	UR
	CSA
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	2.100 A @ 460.0 V
	4.200 A @ 230.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.1 a
Insulation Class	H

Part Detail

Revision	B
Type	AC
Mech. spec.	05E534
Base	
Status	PRD/A
Elec. spec.	05WGX610
Layout	05LYE534
Eff. date	08-19-2026
CD Diagram	CD0005
Poles	04
Leads	9#18 Y
Proprietary	False
Created date	02-23-2023

Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.65 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
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1765 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

NP1163L							
CAT NO	IDVSNM3584T						
SPEC.	05E534X610G1						
FRAME	145TC		**HP**	1.5 TE			
VOLTS	230/460						
MAG CUR	2.26/1.13		**FLA**	4.2/2.1			
RPM	1765		**RPM MAX**	2700			
HZ	60	**PH**	3	**CLASS**	H		
SER.F.	1.00	**DES**	-	**SL HZ**	1.2		
NEMA-NOM-EFF	84	**WK2**	0.202				
BLWR V		**PH**		**HZ**		**A**	
RATING	40C AMB-CONT						
DE BRG	6205		**ODE BRG**	6203			
CC	**SN**						
	1000:1 CT/VT						

AC Induction Motor Performance Data
Record # 87014
Preliminary Data Sheet

Winding: 05WGX610-R001	**Type:** 0528M	**Enclosure:** TENV

Nameplate Data			
Rated Output (HP)			1.5
Volts			230/460
Full Load Amps			4.2/2.1
R.P.M.			1765
Hz	60	**Phase**	3
NEMA Design Code	-	**KVA Code**	L
Service Factor (S.F.)			1
NEMA Nom. Eff.	84	**Power Factor**	80
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	4.44 LB-FT
Start Configuration	direct on line
Breakdown Torque	16.3 LB-FT
Pull-up Torque	7 LB-FT
Locked-rotor Torque	10.6 LB-FT
Starting Current	17.8 A
No-load Current	1.13 A
Line-line Res. @ 25ºC	13.4 Ω
Temp. Rise @ Rated Load	35°C
Locked-rotor Power Factor	59.7
Rotor inertia	0.202 lb-ft²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	39	60	72	80	84	87
Efficiency	76	84	86	85	84	83
Speed	1791	1783	1774	1764	1754	1742
Line amperes	1.2	1.4	1.69	2.05	2.47	2.93

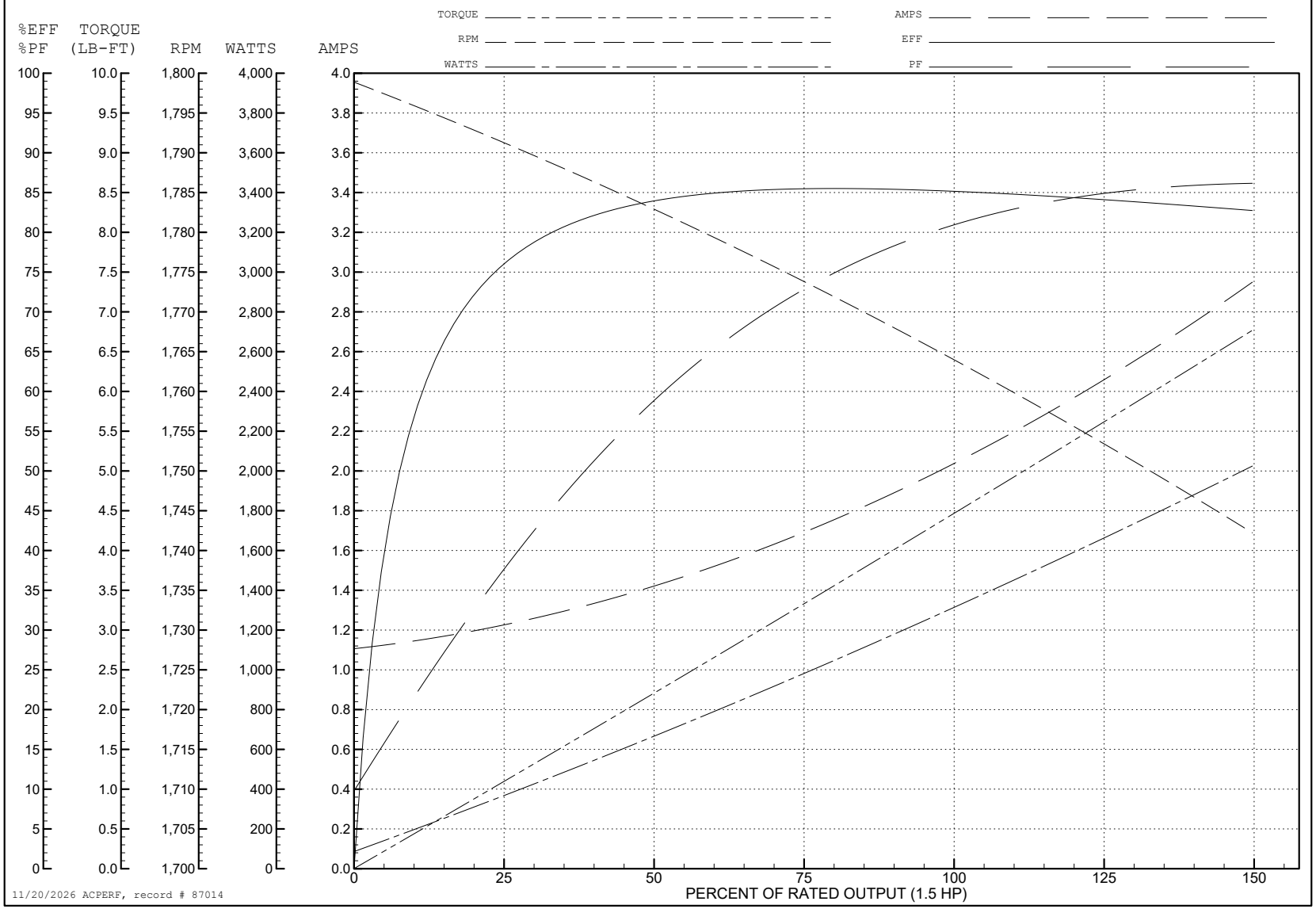
ABB Motors and Mechanical Inc.

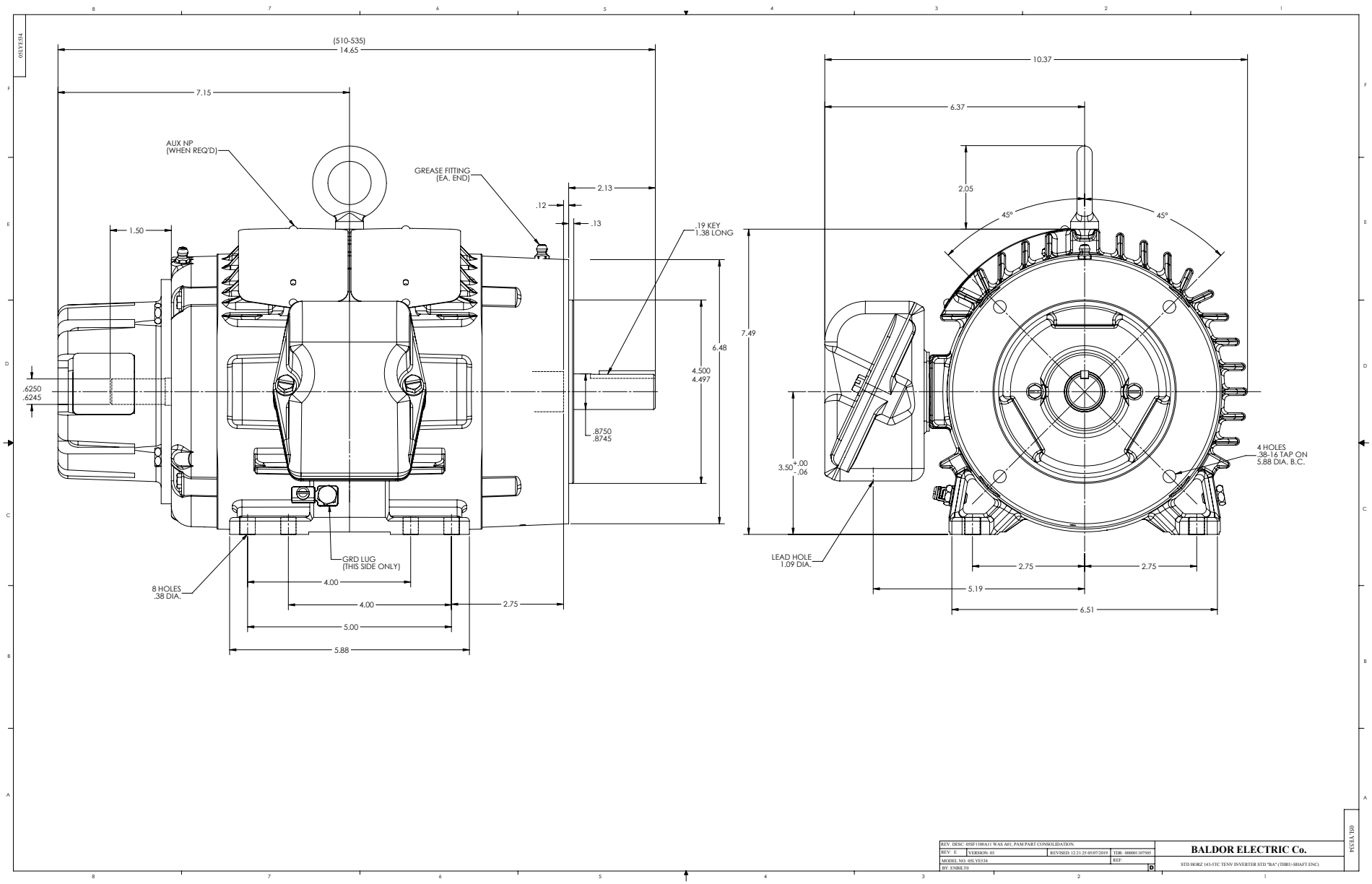
WINDING # 05WGX610

1.5 HP 3 PH 60 HZ 1765 RPM 460 V 0528M

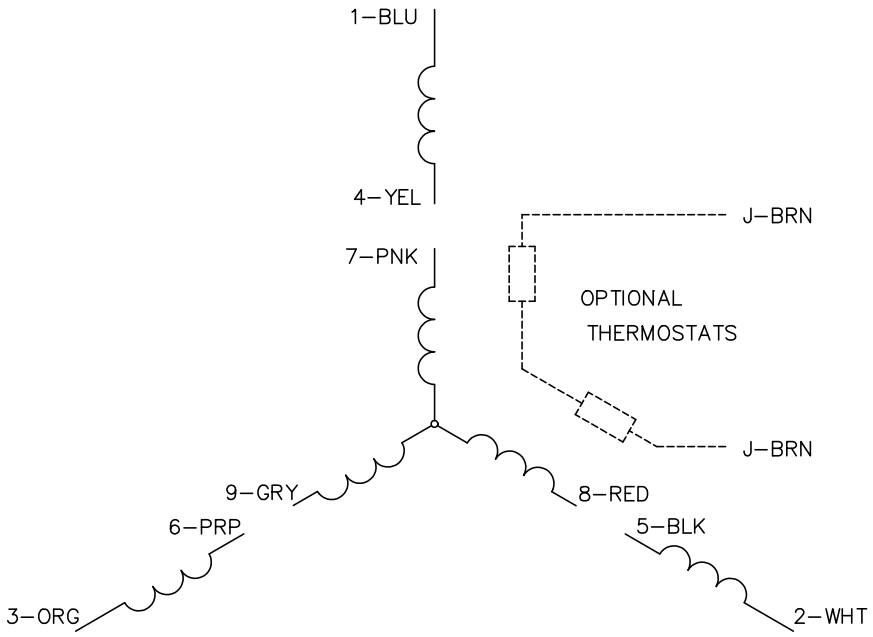
Typical performance - not guaranteed values.

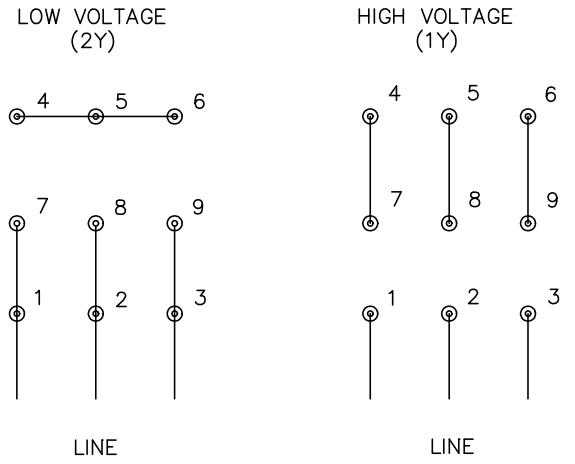
TORQUES(LB-FT): PO=16.3 PU=7 LR=10.6 LRA=17.8




(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
REV. DESC: 05SF1100A13 WAS A01, PAM PART CONSOLIDATION
REV: E
VERSION: 05
REVISED: 12:21:25 05/07/2019
TDR: 0000001107505
MODEL NO: 05LYE534
REF:
BY: ENBLTH
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