ABB BALDOR RELIANCE

Customer information packet

IDVSNM3584T-5

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 0530M, 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	575.0 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	1.700 A @ 575.0 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	1.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M

Part Detail

Revision	C
Type	AC
Mech. spec.	05E534
Base	
Status	PRD/A
Elec. spec.	05WGX563
Layout	05LYE534
Eff. date	08-19-2026
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	02-23-2023

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0530M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.65 IN
Power Factor	77
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	1770 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

NP4564L							
CAT.NO.	IDVSNM3584T-5						
SPEC.	05E534X563G1						
FRAME	145TC	**H.P.**	1.5				
VOLTS	575						
MAG. CUR.	1			**F.L. AMPS**	1.7		
R.P.M.	1765	**R.P.M. MAX**		2700			
HZ.	60	**PH.**	3	**CLASS**	F		
SER.F.	1.00		**SL HZ**	1.2			
NEMA NOM. EFF.	86.5	**WK2**	0.217				
RATING	40C AMB-CONT					**ENCL**	TENV
DE	6205	**ODE**	6203				
CC	010A	**SN**					
	1000:1 CT/VT						

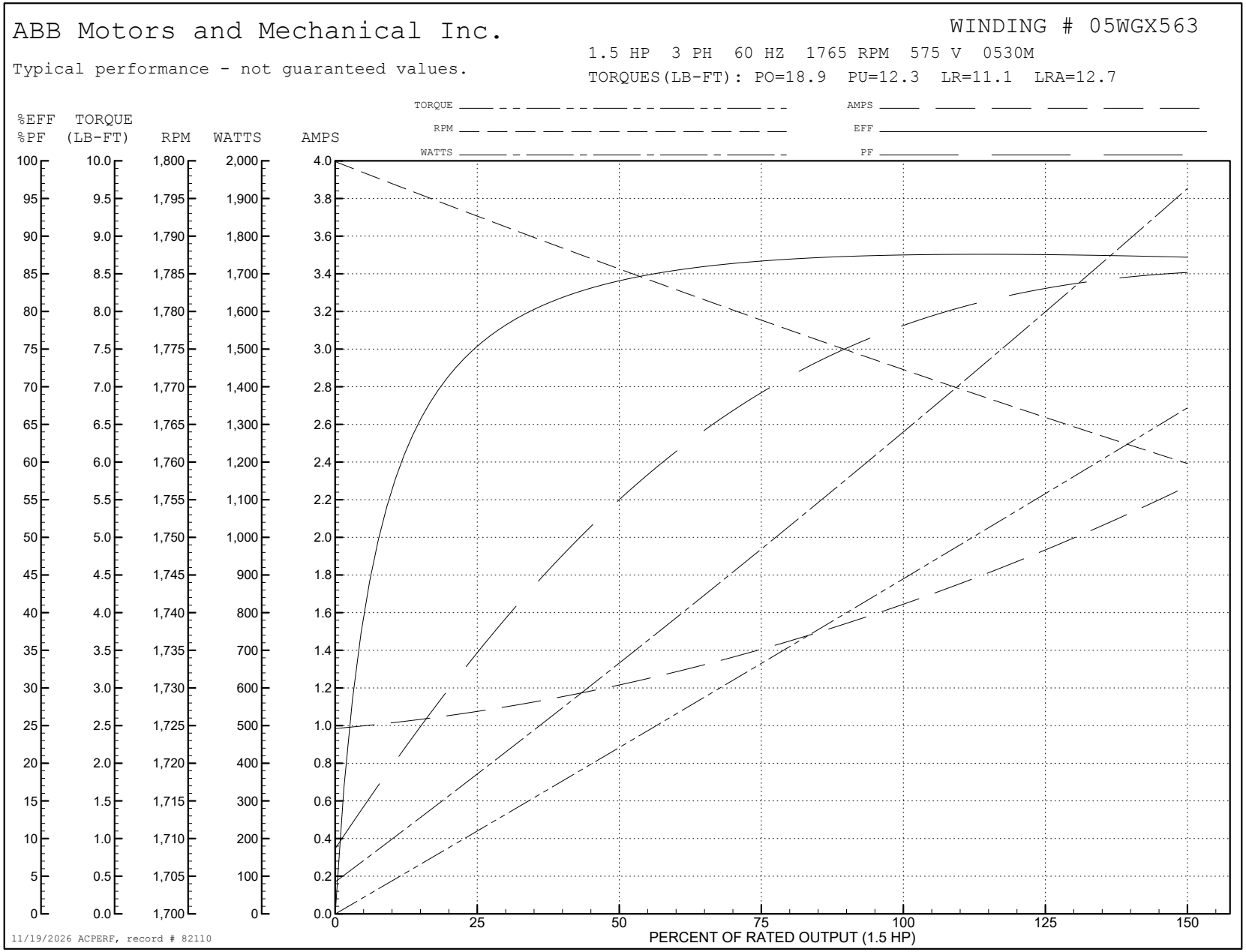
AC Induction Motor Performance Data
Record # 82110
Typical performance - not guaranteed values

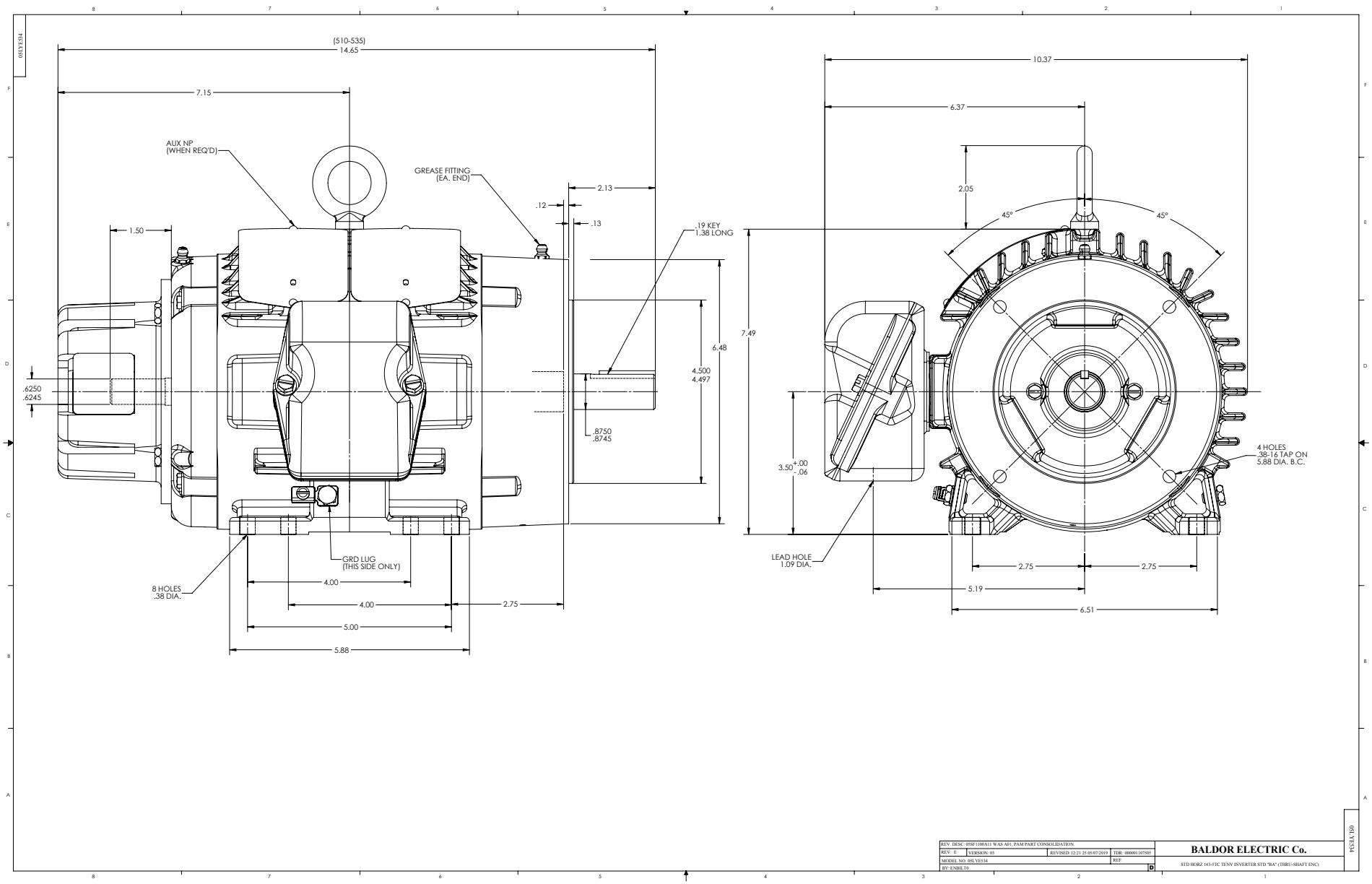
Winding: 05WGX563-R002	**Type:** 0530M	**Enclosure:** TENV

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			1.5	**Full Load Torque**	4.44 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			1.7	**Breakdown Torque**	18.9 LB-FT
R.P.M.			1765	**Pull-up Torque**	12.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	11.1 LB-FT
NEMA Design Code	B	**KVA Code**	M	**Starting Current**	12.7 A
Service Factor (S.F.)			1	**No-load Current**	1 A
NEMA Nom. Eff.	86.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	16.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	55°C
				Locked-rotor Power Factor	55.3
				Rotor inertia	0.217 lb-ft²

Load Characteristics 575 V, 60 Hz, 1.5 HP

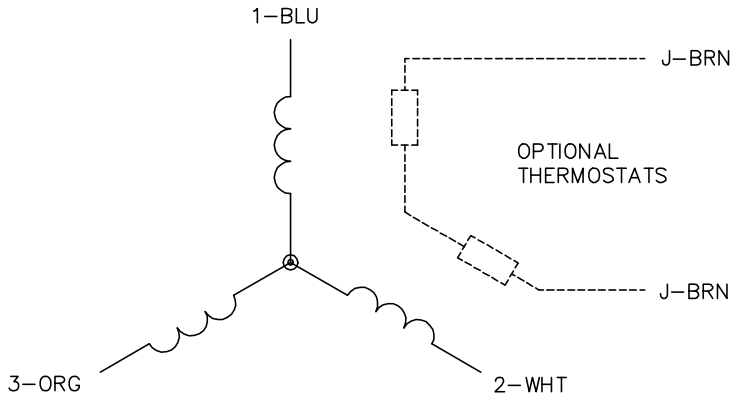
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	35	56	69	77	83	86
Efficiency	75.5	84.1	86.8	87.6	87.7	87.2
Speed	1793	1787	1781	1767	1768	1760
Line amperes	1.06	1.2	1.41	1.66	1.94	2.26

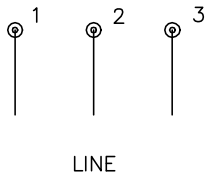

ABB Motors and Mechanical Inc.
WINDING # 05WGX563
1.5 HP 3 PH 60 HZ 1765 RPM 575 V 0530M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=18.9 PU=12.3 LR=11.1 LRA=12.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1.5 HP)
11/19/2026 ACPERF, record # 82110


(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)

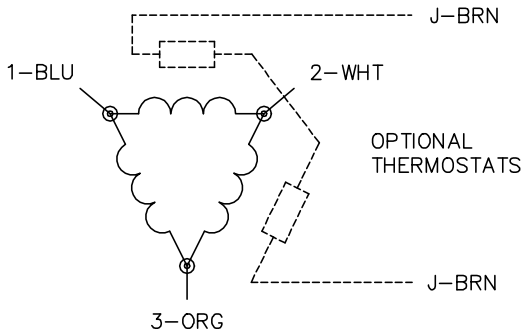
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1