

ABB BALDOR RELIANCE III

Customer information packet

ZDM3584T-5

1.5HP, 1770RPM, 3PH, 60HZ, 145TC, 0522M, TEBC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEBC
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	BLOWER
Current @ Voltage	1.710 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	ENCODER
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L

Part Detail

Revision	C
Type	AC
Mech. spec.	05E535
Base	
Status	PRD/A
Elec. spec.	05WGX559
Layout	05LYE535
Eff. date	09-30-2025
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	0522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.08 IN
Power Factor	76
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	Shaft 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

NP4539L									
CAT.NO.	ZDM3584T-5								
SPEC.	05E535X559Z1								
FRAME	145TC			H.P.		1.5 TE			
VOLTS	575								
MAG. CUR.	1.05			F.L. AMPS				1.71	
R.P.M.	1770			R.P.M. MAX			2700		
HZ.	60		PH.		3		CLASS		F
SER.F.	1.00		DES.		B		SL HZ		1
NEMA NOM. EFF.	86.5		WK2		0.159				
BLWR V	115	PH	1	HZ	60	AMPS		.5	
RATING	40C AMB-CONT								
DE	6205	ODE		6203					
CC	010A	SN							
	1000:1 CT/VT								

Parts List

Part number	Description	Quantity
SA414957	SA 05E535X559Z1	1.000 ea
RA406726	RA 05E535X559Z1	1.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	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	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	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
35EP1100B21	FRONT TEBC 203 BRG W/ GREASER & THRU-SHA	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
10XN2520A08	1/4-20X1/2 HEX HEAD CAP	1.000 ea
HA3218A04	MALE-FEMALE STANDOFF .25-.20 .38 HEX	3.000 ea
10XN2520A04	1/4-20 X 1/4 HEX HD MACH SCREW	3.000 ea
HW1003A25	WASHER, 1/4 EX TH LK, ZN X	3.000 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
HA1005A05SP	SLINGER, OD 1.50, ID .659, 203 BRG	1.000 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

LB1009N	LABEL,ROTATION DIRECTION (ON ROLLS)	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
05FH5001A03	BLOWER KIT,05FH4002,EF0008,35CB3002	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.022 ga
LC0035B01	1PH, SV, FIX, 2 LEAD	1.000 ea
OE5011A04	HS25 ENCODER ASSY - TEBC	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP4539L	SS VEC UL EEV NEMA PREM CC	1.000 ea
G7PA1000	PKG GRP, PRINT PK1034A07	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 # 82042

Typical performance - not guaranteed values

Winding: 05WGX559-R002			Type: 0522M		Enclosure: TEFC			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		1.5	Full Load Torque		4.46 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		1.71	Breakdown Torque		16.69 LB-FT			
R.P.M.		1768	Pull-up Torque		9.8 LB-FT			
Hz		60	Phase		3	Locked-rotor Torque	11.36 LB-FT	
NEMA Design Code		B	KVA Code		L	Starting Current	14.18 A	
Service Factor (S.F.)			1	No-load Current		1.05 A		
NEMA Nom. Eff.		86.5	Power Factor		76	Line-line Res. @ 25°C		22 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		34°C		
				Locked-rotor Power Factor		62		
				Rotor inertia		0.159 lb-ft²		

Load Characteristics 575 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	35	54	67	76	81	84
Efficiency	75.8	83.9	86.1	86.4	85.5	84.2
Speed	1791	1784	1776	1768	1758	1748
Line amperes	1.1	1.24	1.45	1.72	2.03	2.38

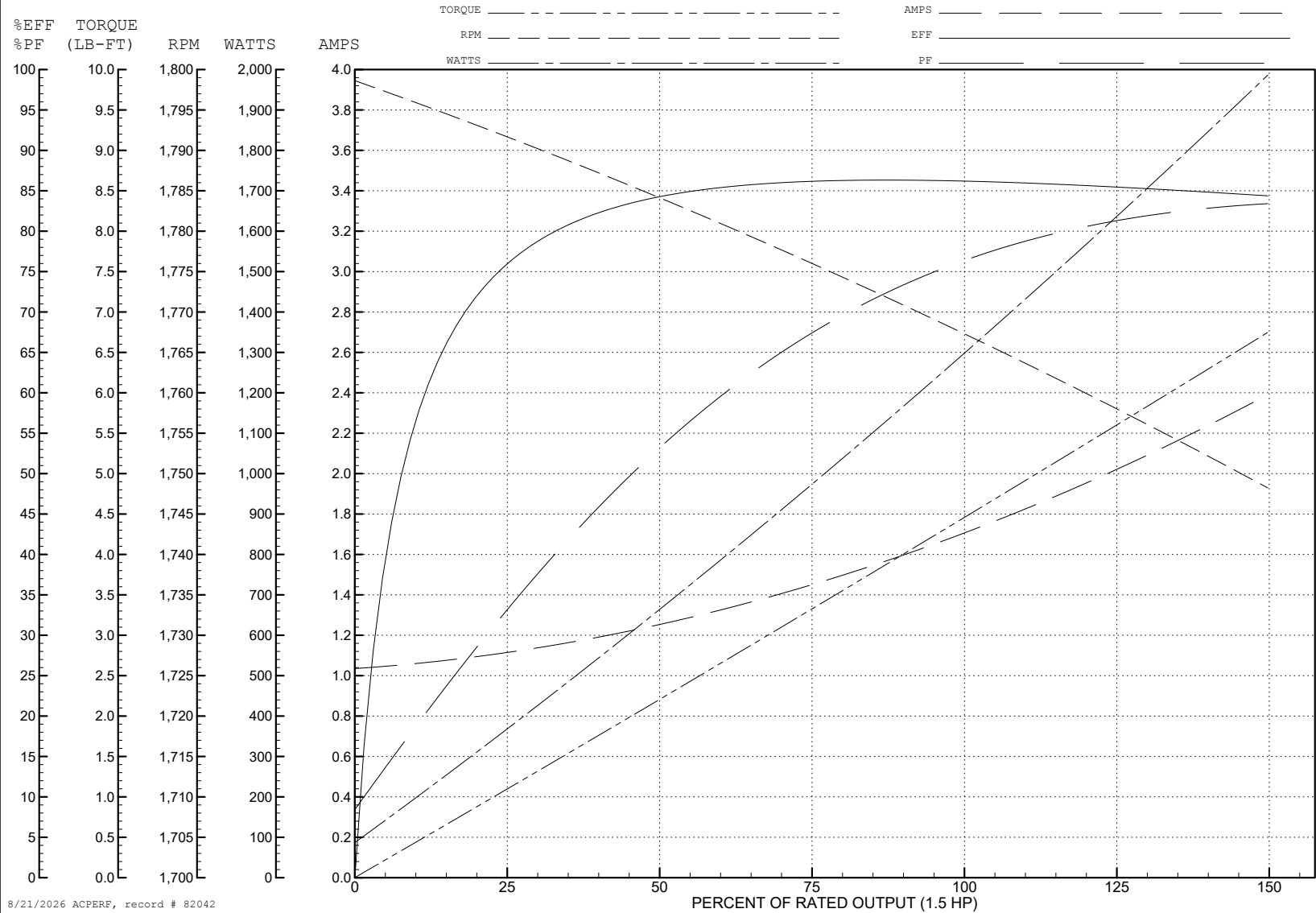
ABB Motors and Mechanical Inc.

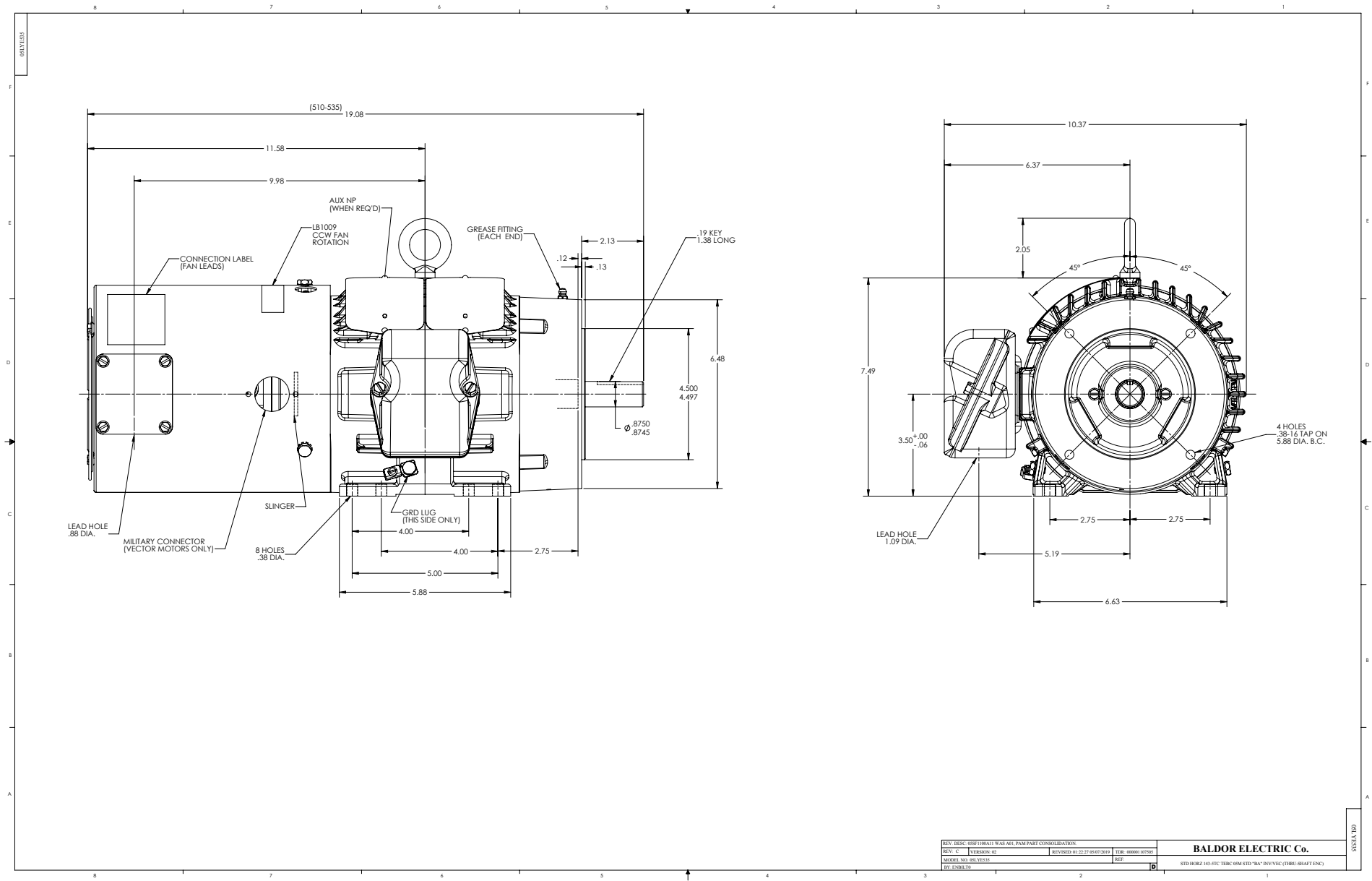
WINDING # 05WGX559

Typical performance - not guaranteed values.

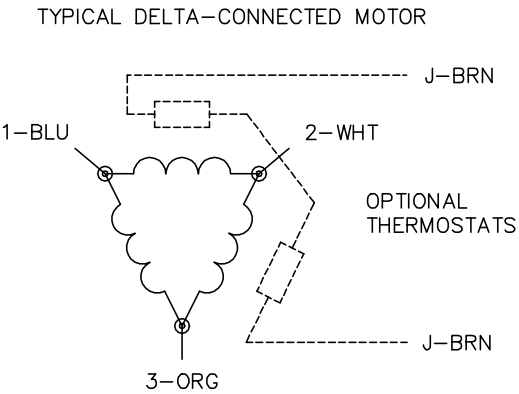
1.5 HP 3 PH 60 HZ 1768 RPM 575 V 0522M

TORQUES (LB-FT): PO=16.69 PU=9.8 LR=11.36 LRA=14.18





CD0006



- 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: ENBRIRO
MTL: —		

BALDOR - RELIANCE®

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

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