ABB BALDOR RELIANCE

Customer information packet

IDM3582T

26M 6P TEBC HOR 145TC T'STATS INVERTER
Class - None
Division - Not Applicable

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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	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	BLOWER
Current @ Voltage	3.000 A @ 230.0 V
	1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	H

Part Detail

Revision	C
Type	AC
Mech. spec.	05E535
Base	
Status	PRD/A
Elec. spec.	05WGX571
Layout	05LYE535
Eff. date	03-16-2026
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	09-09-2022

Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	19.15 IN
Power Factor	67
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: Connected Standard
Shaft Slinger Indicator	Shaft Slinger
Speed	1170 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.	IDM3582T										
SPEC.	05E535X571G1										
FRAME	145TC		**H.P.**	1							
VOLTS	230/460										
MAG. CUR.	2/1				**F.L. AMPS**	3/1.5					
R.P.M.	1170			**R.P.M. MAX**	1800						
HZ.	60	**PH.**	3	**CLASS**	H						
SER.F.	1.00	**DES.**	B	**SL HZ**	1.5						
NEMA NOM. EFF.	82.5	**WK2**	0.189								
BLOWER		**V**	115	**PH**	1	**HZ**	60	**AMPS**	.5		
RATING	40C AMB-CONT			**ENCL**	TEBC						
DE	6205	**ODE**	6203								
CC	010A	**SN**									
	1000:1 CT/VT										

AC Induction Motor Performance Data
Record # 87613
Typical performance - not guaranteed values

Winding: 05WGX571-R004	**Type:** 0526M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	4.479 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.4/1.7	**Breakdown Torque**	11.9 LB-FT
R.P.M.			1155	**Pull-up Torque**	7.06 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.62 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	9.06 A
Service Factor (S.F.)			1	**No-load Current**	1.02 A
NEMA Nom. Eff.	82.5	**Power Factor**	67	**Line-line Res. @ 25ºC**	20.372 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
				Locked-rotor Power Factor	48.3
				Rotor inertia	0.189 lb-ft²

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	29	47	1	1	1	1
Efficiency	73.5	81.9	83.5	83.1	81.6	79.1
Speed	1192.5	1185.4	1177.6	1168.7	1159	1147
Line amperes	1.07	1.21	1.41	1.67	1.98	2.35

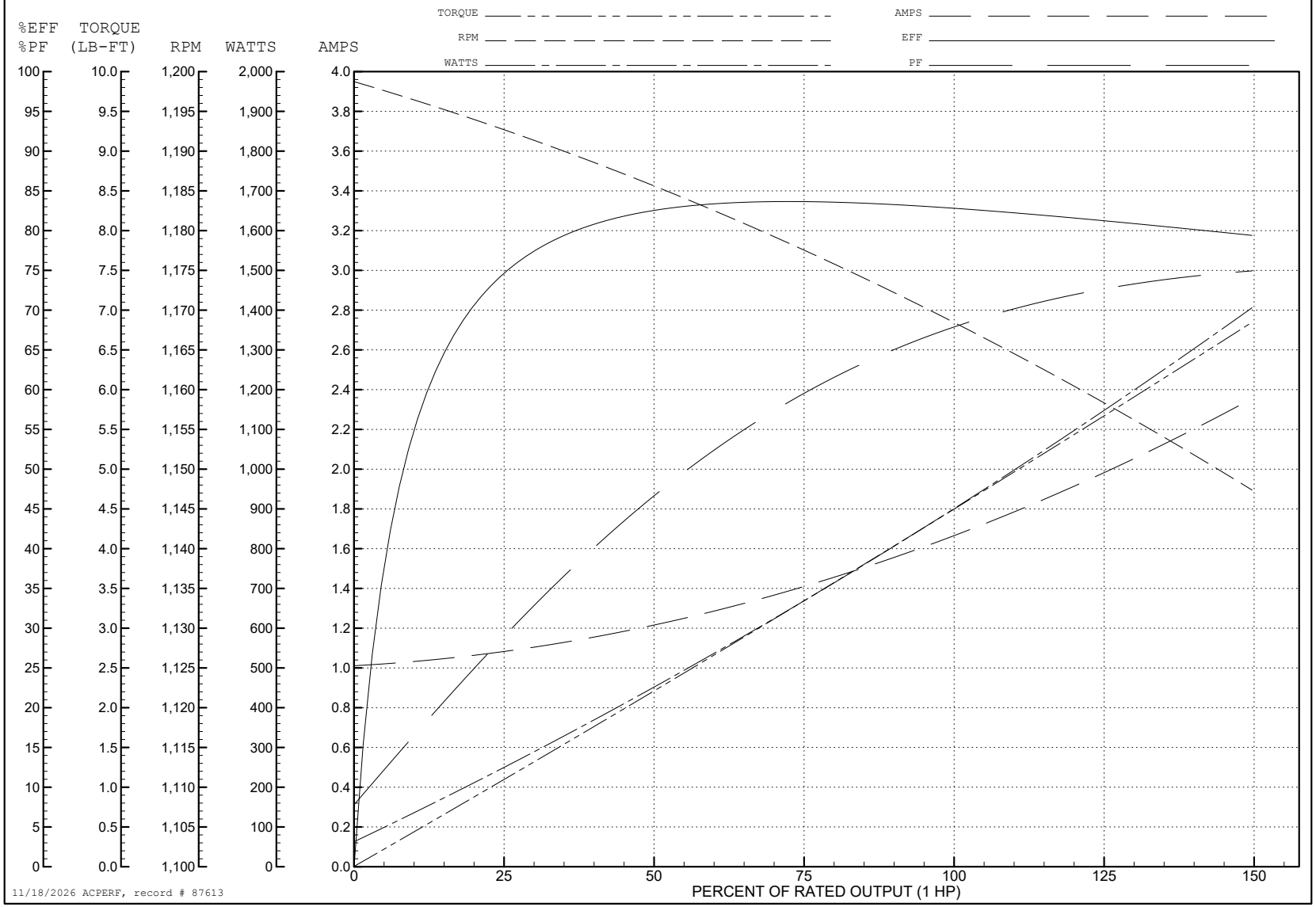
ABB Motors and Mechanical Inc.

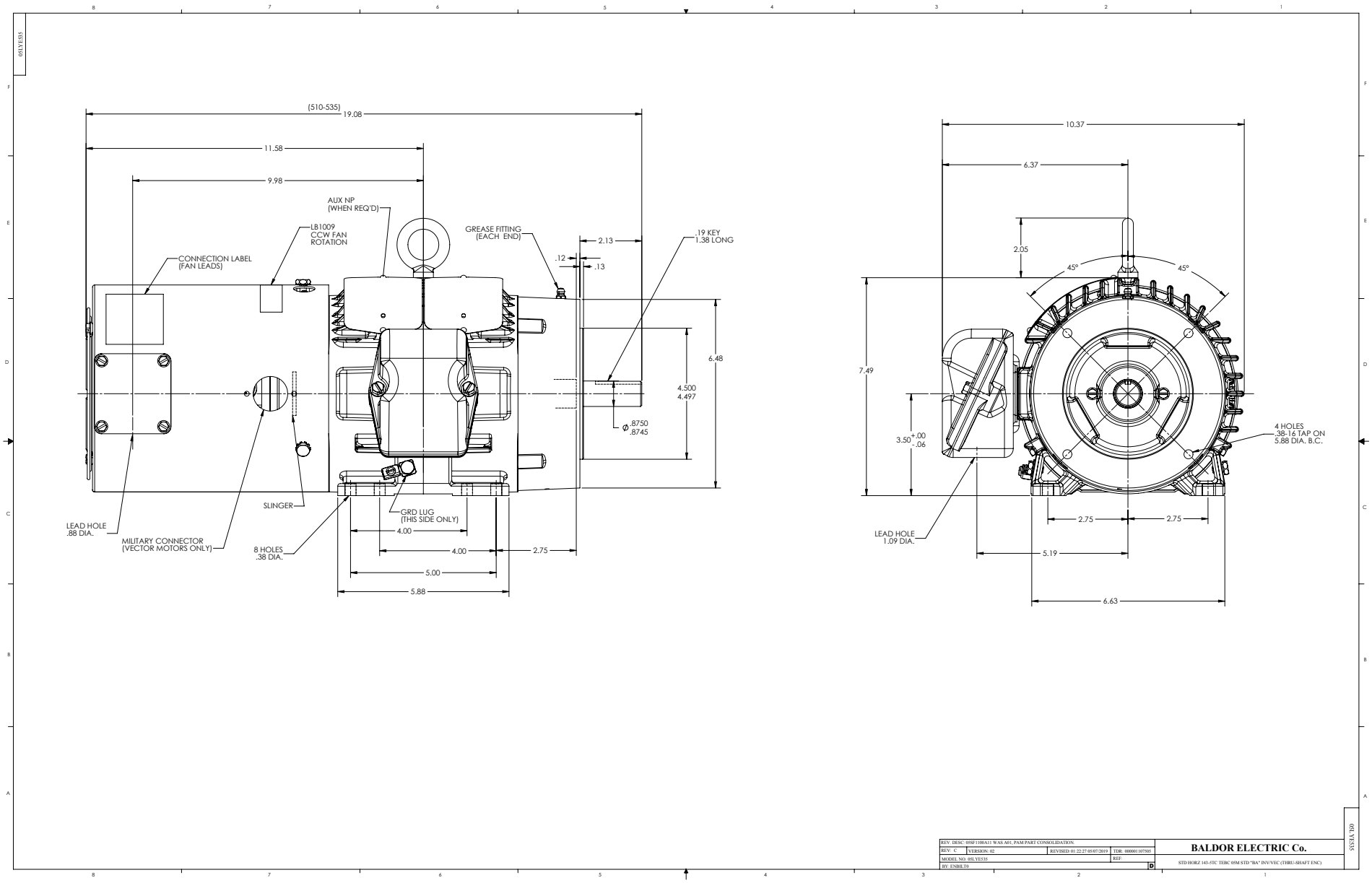
WINDING # 05WGX571

1 HP 3 PH 60 HZ 1155 RPM 460 V 0526M

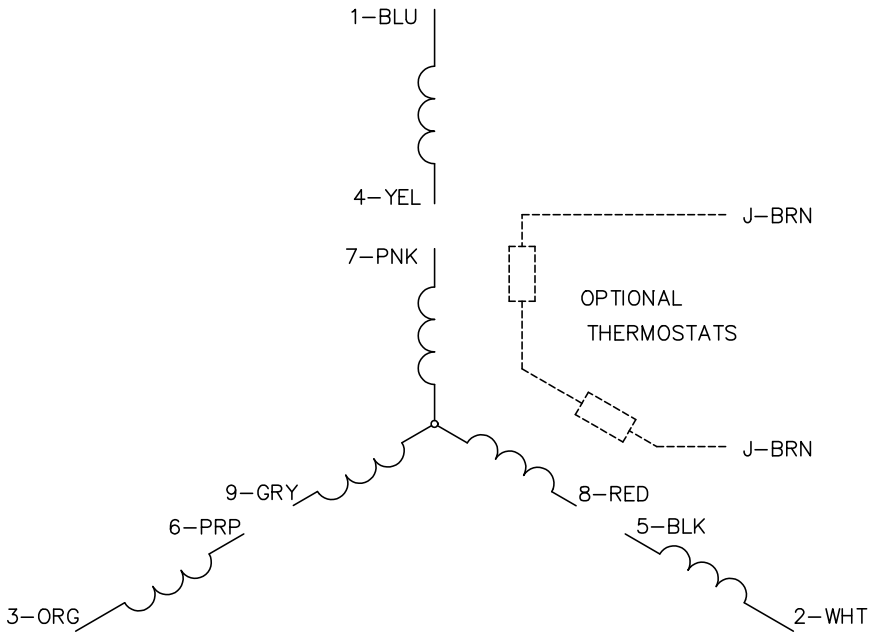
Typical performance - not guaranteed values.

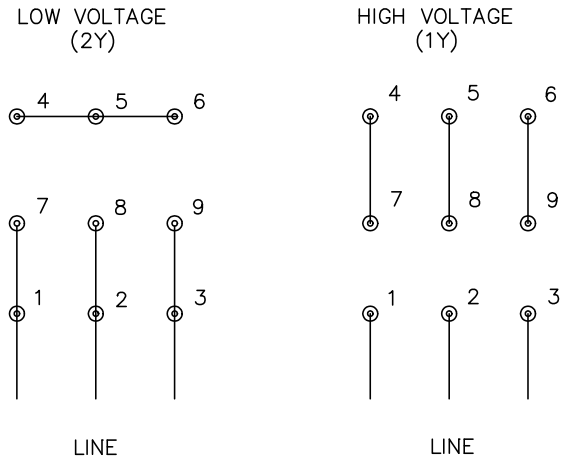
TORQUES(LB-FT): PO=11.9 PU=7.06 LR=8.62 LRA=9.06




(510-535)
19.08
11.58
9.98
AUX NP
(WHEN REQ'D)
LB1009
CCW FAN
ROTATION
GREASE FITTING
(EACH END)
2.13
.19 KEY
1.38 LONG
.12
.13
CONNECTION LABEL
(FAN LEADS)
6.48
4.500
4.497
Ø .8750
.8745
SLINGER
GRD LUG
(THIS SIDE ONLY)
LEAD HOLE
.88 DIA.
MILITARY CONNECTOR
(VECTOR MOTORS 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.
2.75
2.75
LEAD HOLE
1.09 DIA.
5.19
6.63
REV DESC 05SF1100A13 WAS A01, PAM PART CONSOLIDATION
REV: C VERSION: 02 REVISED: 01.22.27 05/07/2019 TDR: 0000001107505
MODEL NO: 05LYE535 REF:
BY: ENBLTH
BALDOR ELECTRIC Co.
STD HORZ 143-5TC TEBC 05M STD "BA" INV/VEC (THRU-SHAFT ENC)
05LYE535
05LYE535

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