

BALDOR® • RELIANCE

Product Information Packet

CEM3546T-5

1HP,1760RPM,3PH,60HZ,143TC,3519M,TEFC,F1

Part Detail							
Revision:	K	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3520M	Elec. Spec:	35WGM849	CD Diagram:	CD0006
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35AA002	Layout:	35LYAA002
Frame:	143TC	Mounting:	F1	Poles:	04	Created Date:	08-03-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	09-06-2016
Leads:	3#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3441L

CAT.NO.	CEM3546T-5										
SPEC.	35AA002M849G1										
HP	1										
VOLTS	575										
AMP	1.2										
RPM	1760										
FRAME	143TC					HZ	60			PH	3
SER.F.	1.15			CODE	L		DES	B		CL	F
NEMA-NOM-EFF	85.5			PF	71						
RATING	40C AMB-CONT										
CC	010A				USABLE AT 208V						
DE	6205					ODE	6203				
ENCL	TEFC			SN							
VPWM INVERTER READY											
CT6-60H(10:1)VT3-60H(20:1)											

Parts List		
Part Number	Description	Quantity
SA200986	SA 35AA002M849G1	1.000 EA
RA188291	RA 35AA002M849G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 EA
36GS1000	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35FE3100M01	FREP TEFC ASSEMBLY FOR ROUTING	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3300A46	PULLEY ENDPLATE, MACH	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
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0006	CONNECTION LABEL	1.000 EA
NP3441L	ALUM SUPER-E VPWM INVERTER READY UL	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 32073 - Typical performance - not guaranteed values

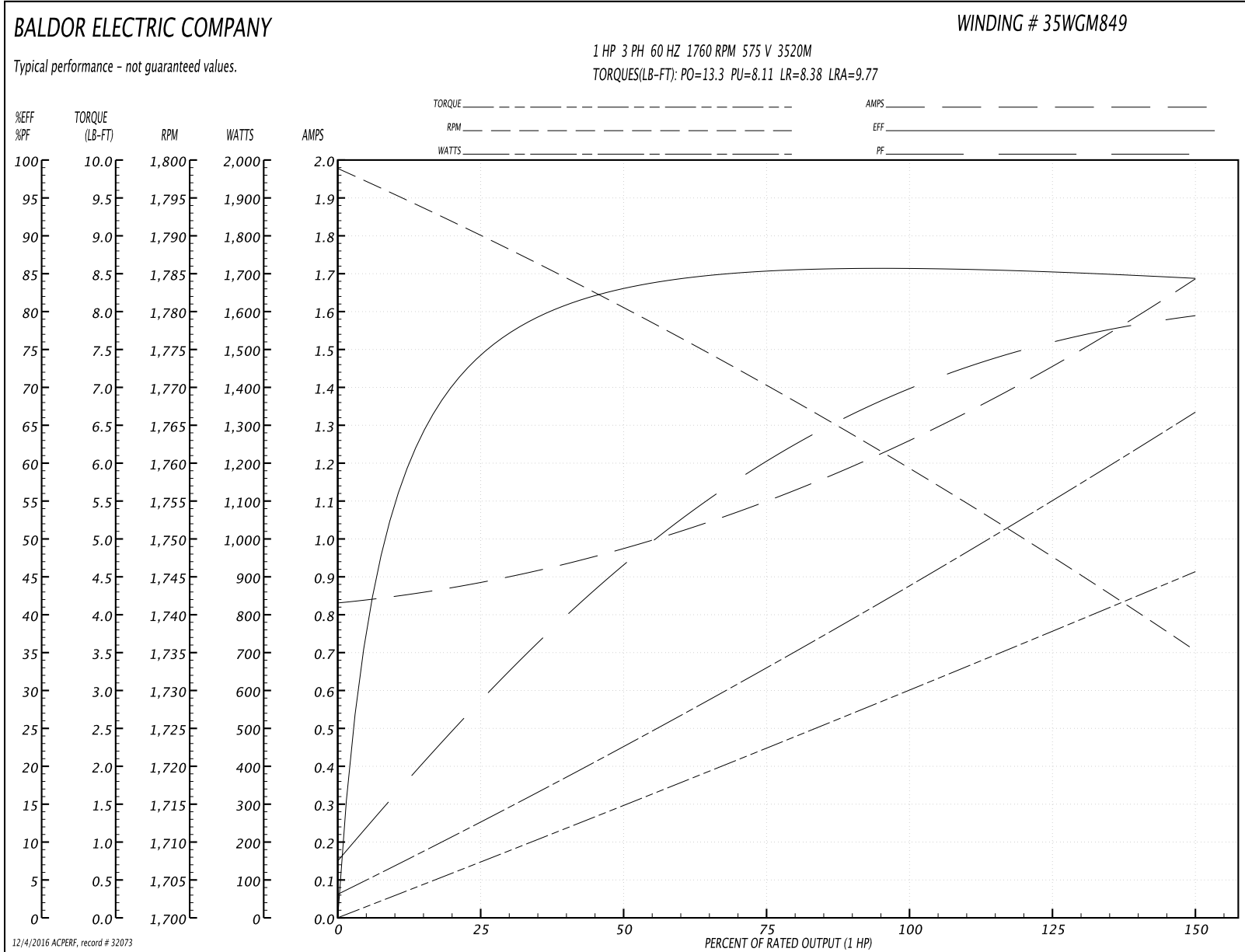
Winding: 35WGM849-R001	Type: 3520M	Enclosure: TEFC
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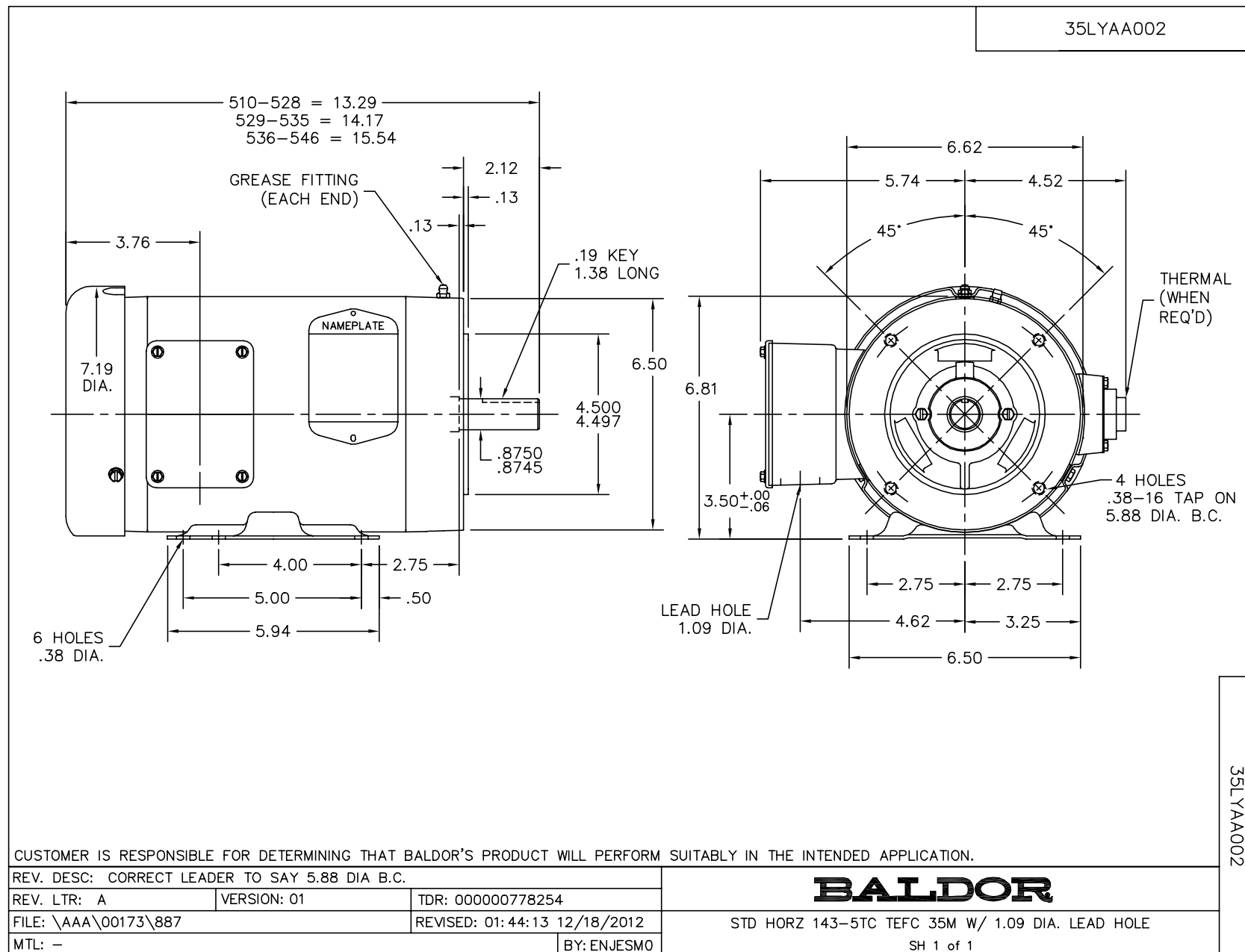
Nameplate Data				575 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1			Full Load Torque	2.99 LB-FT
Volts	575			Start Configuration	direct on line
Full Load Amps	1.2			Breakdown Torque	13.3 LB-FT
R.P.M.	1760			Pull-up Torque	8.11 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	8.38 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	9.77 A
Service Factor (S.F.)	1.15			No-load Current	0.84 A
NEMA Nom. Eff.	85.5	Power Factor	71	Line-line Res. @ 25°C	23.9 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	36°C
S.F. Amps				Temp. Rise @ S.F. Load	42°C
				Locked-rotor Power Factor	53.9
				Rotor inertia	0.118 LB-FT2

Load Characteristics 575 V, 60 Hz, 1 HP

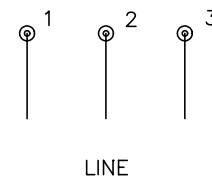
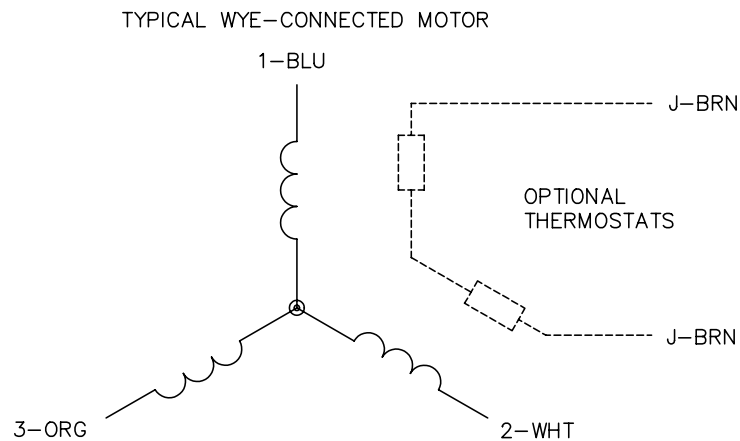
% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	29	47	60	69	76	80	75
Efficiency	74.4	83.2	85.2	85.9	85.3	84.4	85.5
Speed	1790	1780	1770	1760	1748	1735	1754
Line amperes	0.872	0.977	1.1	1.26	1.46	1.68	1.35

Performance Graph at 575V, 60Hz, 1.0HP Typical performance - Not guaranteed values





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS

REV. LTR: D

BY: JLP

REVISED: 01/21/99 4:02

TDR: 0171435

9000D

FILE: AAA00005141

MDL: -

MTL: -

BALDOR ELECTRIC Co.

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

CD0006