

BALDOR® • RELIANCE 

Product Information Packet

EM3545-G

1HP,3450RPM,3PH,60HZ,56,3516M,TEFC,F1,N

Part Detail							
Revision:	Q	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGY474	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35Z951	Layout:	35LYZ951	Poles:	02	Created Date:	11-18-2011
Base:	RG	Eff. Date:	01-21-2019	Leads:	9#18		

Specs			
Catalog Number:	EM3545-G	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	H
Frame:	56	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	K
Output @ Frequency:	1.000 HP @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3516M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	87
	CSA EEV	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Ground Indicator:	Shaft Grounding

Current @ Voltage:	1.400 A @ 460.0 V	Shaft Rotation:	Reversible
	2.800 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
	3.000 A @ 208.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	None
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP3441LUA										
CAT.NO.	EM3545-G									
SPEC	35Z951Y474G1									
HP	1									
VOLTS	230/460									
AMPS	2.8/1.4									
RPM	3450									
FRAME	56			HZ	60			PH	3	
SF	1.25		CODE	K		DES	B		CLASS	H
NEMA NOM. EFF	77		PF	87						
RATING	40C AMB-CONT									
CC	010A					USABLE AT 208V	3			
ENCL	TEFC		SER							
DE	6205		ODE	6203						
VPWM INVERTER READY	SFA 3.4/1.7									
CT6-60H(10:1)VT3-60H(20:1)	50Hz 1HP 190/380V 3.4/1.7A									
									SF1.0	

Parts List		
Part Number	Description	Quantity
SA234553	SA 35Z951Y474G1	1.000 EA
RA221525	RA 35Z951Y474G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
36GS1000SP	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
35EP3122A00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3123F05	F00 W/LCK BRG	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
51XN1032A18	10-32 X 1 1/8 HX WS SL SR (ESKAY)	2.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 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
35CB4521	35 LIPPED CB LID (GALV & PHOSPH)	1.000 EA
35GS1030	35 GS FOR CB LID - LEXIDE	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
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1459	AEGIS SGR LABEL "AEGISLBL-100"	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 EA
LB1350	BAR CODE LABEL FOR YORK	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 36063

Typical performance - not guaranteed values

Winding: 35WGY474-R015		Type: 3516M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1	Full Load Torque	1.5 LB-FT	
Volts	230/460	Start Configuration	direct on line	
Full Load Amps	2.8/1.4	Breakdown Torque	5.6 LB-FT	
R.P.M.	3450	Pull-up Torque	3.91 LB-FT	
Hz	60 Phase	Locked-rotor Torque	4.01 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	8.99 A	
Service Factor (S.F.)	1.25	No-load Current	0.66 A	
NEMA Nom. Eff.	77 Power Factor	Line-line Res. @ 25°C	19.4 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	47°C	
S.F. Amps	3.4/1.7	Temp. Rise @ S.F. Load	60°C	
		Locked-rotor Power Factor	64	
		Rotor inertia	0.0443 LB-FT ²	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	74	82	85	87	87	87
Efficiency	53.9	67.9	73.4	75.1	75.6	74.5	75.6
Speed	3549	3513	3473	3431	3383	3329	3383
Line amperes	0.769	0.939	1.17	1.43	1.72	2.06	1.72

Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values

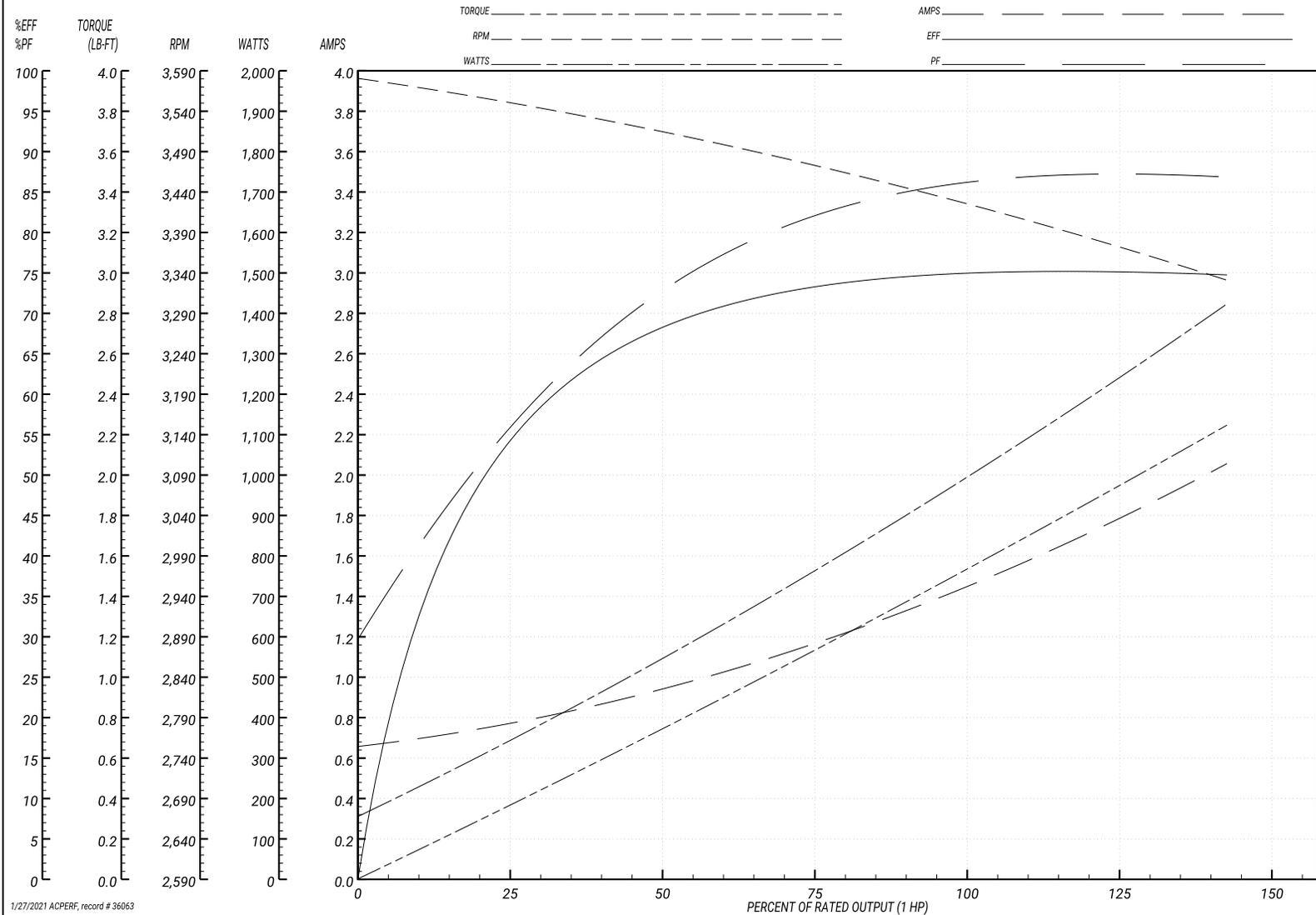
ABB Motors and Mechanical Inc.

WINDING # 35WGY474

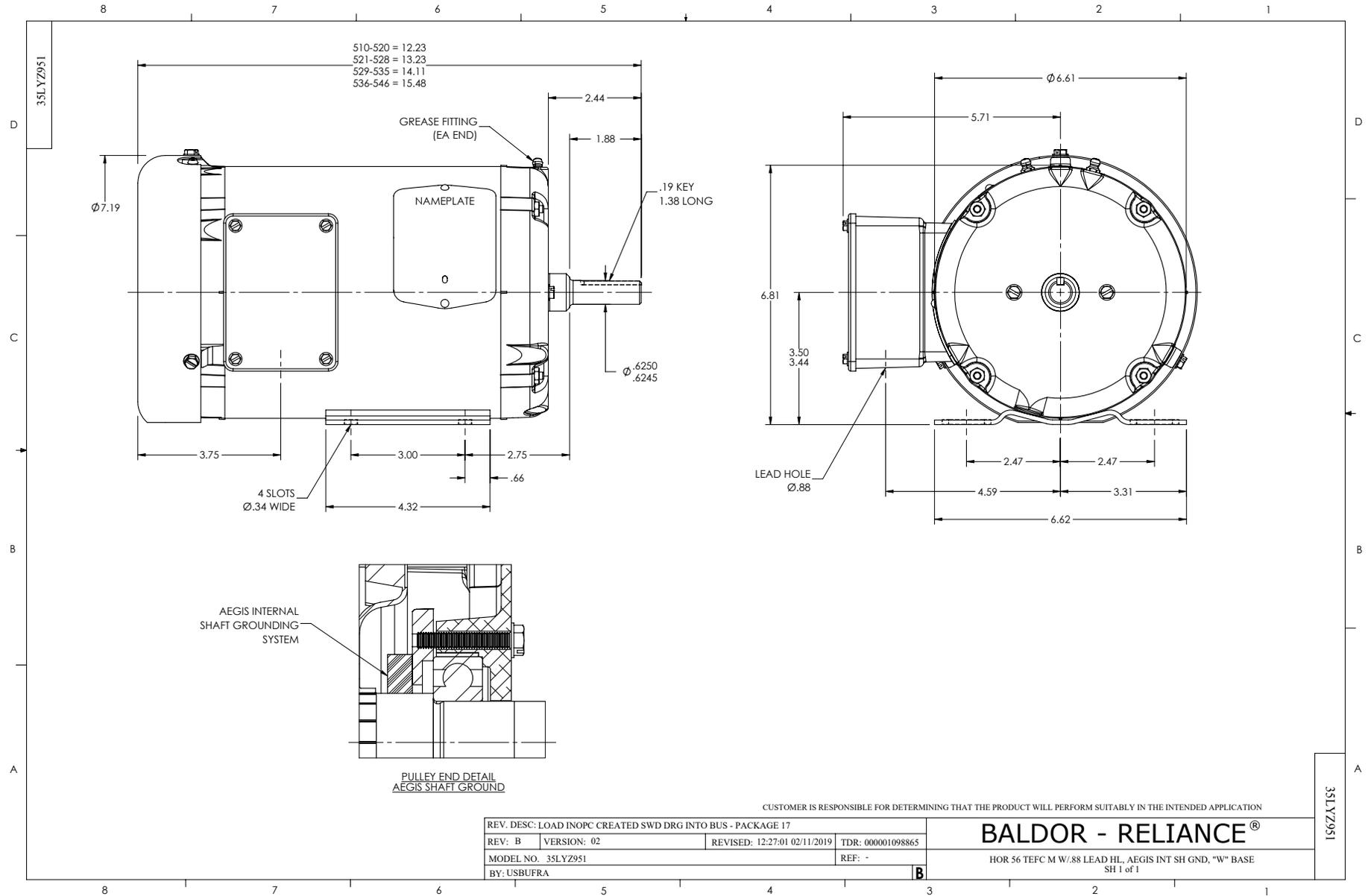
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

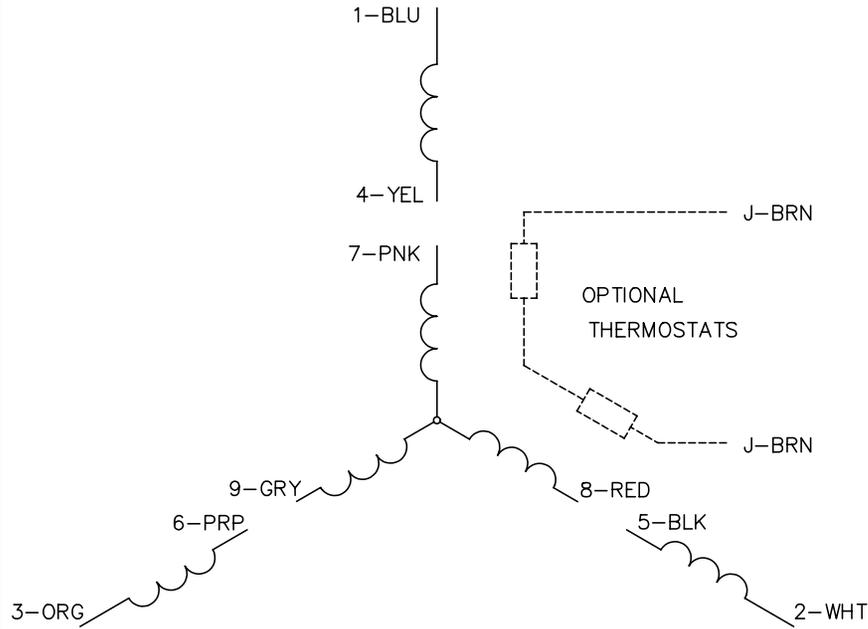
TORQUES(LB-FT): PO=5.6 PU=3.91 LR=4.01 LRA=8.99



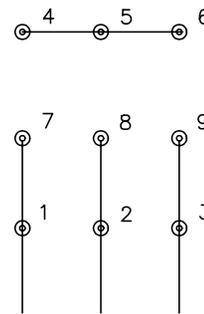
1/27/2021 ACPERF, record # 36063



CD0005

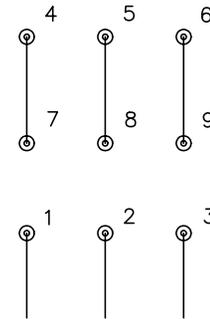


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
90000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005