

BALDOR® • RELIANCE 

Product Information Packet

CEM3545-G

1HP,3450RPM,3PH,60HZ,56C,TEFC,F1

Part Detail							
Revision:	A	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGY474	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:		Layout:	35LYE2181	Poles:	02	Created Date:	12-17-2019
Base:		Eff. Date:	11-11-2021	Leads:	9#18		

Specs			
Catalog Number:	CEM3545-G	Feedback Device:	NO FEEDBACK
Enclosure:	TEFC	Heater Indicator:	No Heater
Frame:	56C	Insulation Class:	H
Frame Material:	Steel	Inverter Code:	Inverter Ready
Output @ Frequency:	1.000 HP @ 60 HZ	IP Rating:	NONE
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	KVA Code:	K
Voltage @ Frequency:	460.0 V @ 60 HZ	Lifting Lugs:	No Lifting Lugs
	230.0 V @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	3516M
Agency Approvals:	CSA	Mounting Arrangement:	F1
	CSA EEV	Power Factor:	87
	UR	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Rodent Screen:	None
Base Indicator:	Rigid	Shaft Ground Indicator:	Shaft Grounding
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Rotation:	Reversible
Blower:	None	Speed Code:	Single Speed

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

Nameplate NP3441LUA										
CAT.NO.	CEM3545-G									
SPEC	35-0000-0515									
HP	1									
VOLTS	230/460									
AMPS	2.8/1.4									
RPM	3450									
FRAME	56C				HZ	60			PH	3
SF	1.15		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
SA377294	SA 35-0000-0515	1.000 EA
RA367209	RA 35-0000-0515	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
35FH4005A32SP	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
51XB0818A12	8-18X3/4 HXWSSLD SERTYB	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
LB1459	AEGIS SGR LABEL "AEGISLBL-100"	1.000 EA
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
BP5308A01	AEGIS SH GRD ASSY W/RETAINER RING	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	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

Parts List (continued)		
Part Number	Description	Quantity
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.022 GA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA

AC Induction Motor Performance Data

Record # 78173

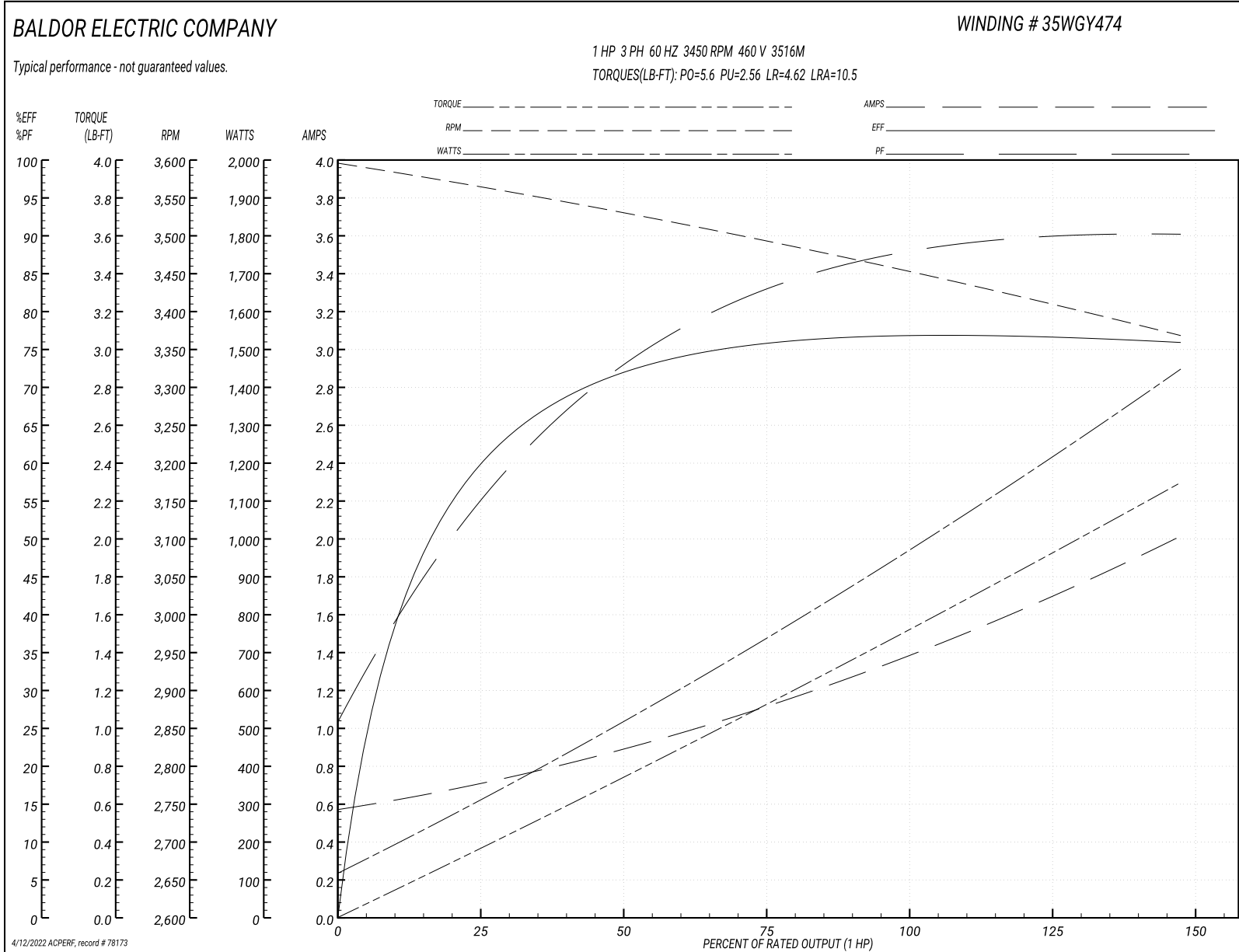
Typical performance - not guaranteed values

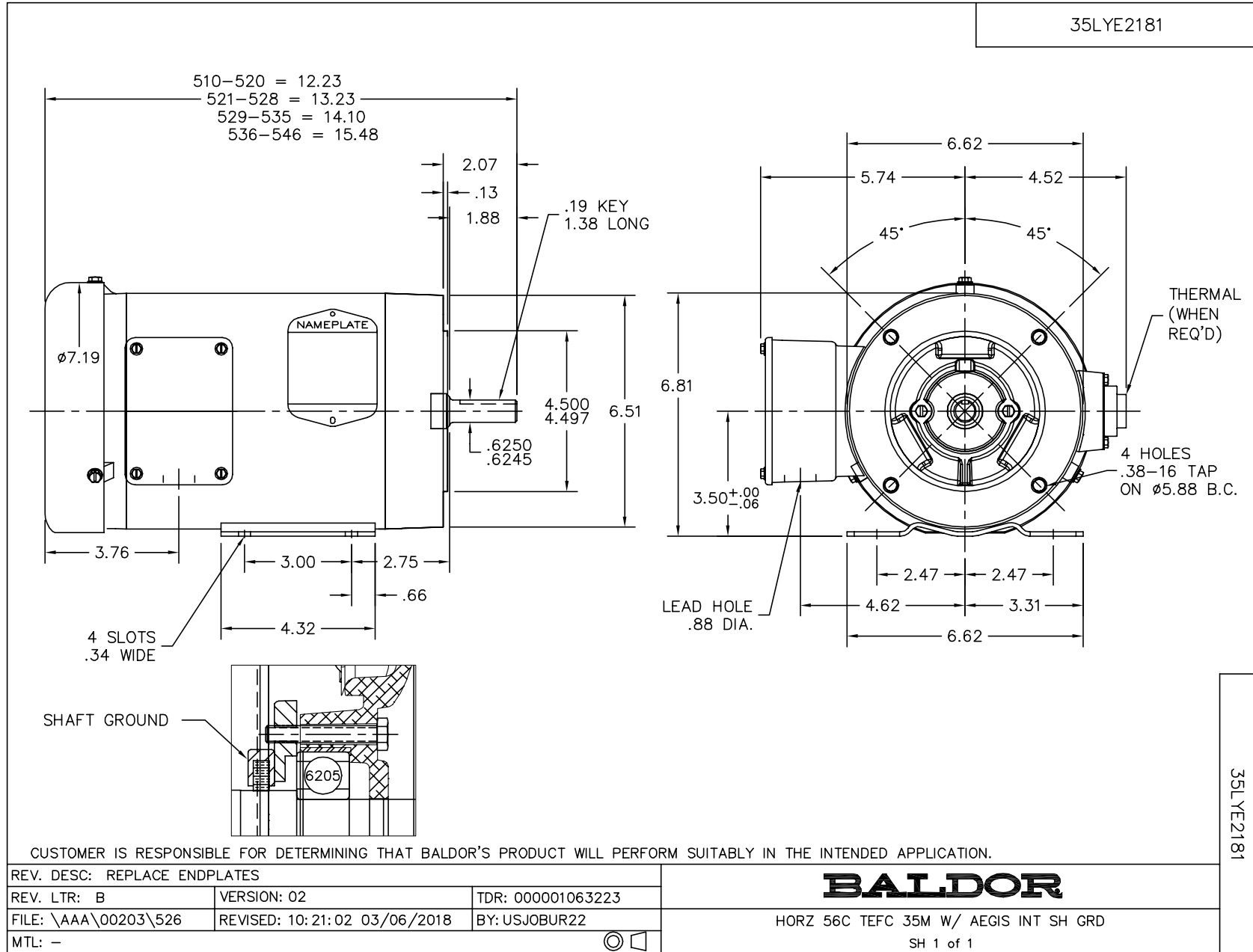
Winding: 35WGY474-R036		Type: 3516M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)	1	Full Load Torque	1.47 LB-FT		
Volts	230/460	Start Configuration	direct on line		
Full Load Amps	2.8/1.4	Breakdown Torque	5.6 LB-FT		
R.P.M.	3450	Pull-up Torque	2.56 LB-FT		
Hz	60 Phase	3	Locked-rotor Torque	4.62 LB-FT	
NEMA Design Code	B KVA Code	K	Starting Current	10.5 A	
Service Factor (S.F.)	1.15	No-load Current	0.585 A		
NEMA Nom. Eff.	77 Power Factor	87	Line-line Res. @ 25°C	19.5 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	41°C		
S.F. Amps		Temp. Rise @ S.F. Load	47°C		
		Locked-rotor Power Factor	64.1		
		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	55	72	82	86	90	91	88
Efficiency	57.6	70.4	75.3	77	77	75.7	77
Speed	3564	3533	3500	3460	3418	3366	3435
Line amperes	0.68	0.851	1.08	1.37	1.65	2.01	1.54

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





CD0005

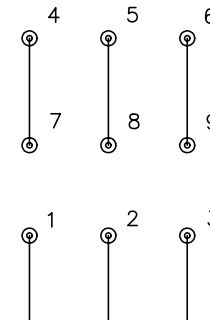


LOW VOLTAGE
(2Y)



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
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005

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