

BALDOR® • RELIANCE

Product Information Packet

EM3545

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

Part Detail							
Revision:	K	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3516M	Elec. Spec:	35WGY474	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35T696	Layout:	35LYT696
Frame:	56	Mounting:	F1	Poles:	02	Created Date:	05-05-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	05-03-2016
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP3441LUA

CAT.NO.	EM3545												
SPEC.	35T696Y474G1												
HP	1												
VOLTS	230/460												
AMP	2.8/1.4												
RPM	3450												
FRAME	56				HZ		60				PH		3
SER.F.	1.25		CODE		K	DES		B	CL		F		
NEMA-NOM-EFF	77			PF		87							
RATING	40C AMB-CONT												
CC	010A			USABLE AT 208V									3
DE	6205			ODE		6203							
ENCL	TEFC		SN										

 VPWM INVERTER READY
 CT6-60H(10:1)VT3-60H(20:1)

50Hz 1HP 190/380V 3.4/1.7A

SF1.0

Parts List		
Part Number	Description	Quantity
SA194380	SA 35T696Y474G1	1.000 EA
RA181970	RA 35T696Y474G1	1.000 EA
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
S/P107-000-001	SUPER E PROC'S-FS, WS & CK PLTS	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	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
35EP3100M02	FREP TEFC 203 BRG W/O GRSR (RAISED FH MT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3101A02SP	STD PU ENDPLATE-ENCL-205 BRG LESS GREASE	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A32	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
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
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
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3441LUA	ALUM SUPER-E VPWM INV READY UL	1.000 EA
35PA1000	PKG GRP, PRINT PK1008A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 11/14	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1604A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 56197 - Typical performance - not guaranteed values

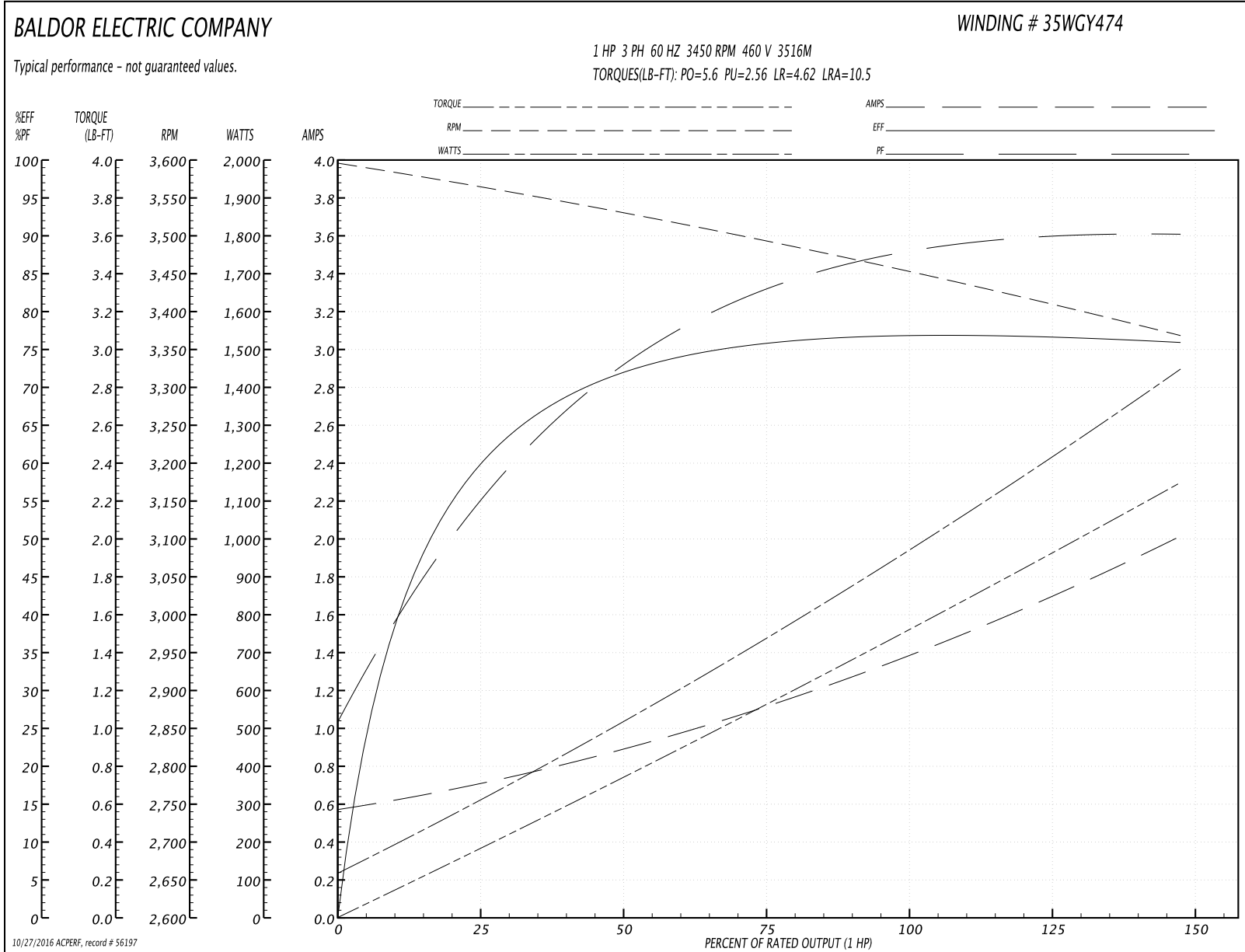
Winding: 35WGY474-R008	Type: 3516M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	1.47 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	2.8/1.4			Breakdown Torque	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.)	1.25			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	3.4/1.7			Temp. Rise @ S.F. Load	52°C
				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	90
Efficiency	57.7	70.5	75.4	77	77	75.8	77
Speed	3564	3533	3500	3460	3418	3366	3418
Line amperes	0.68	0.851	1.08	1.37	1.65	2.01	1.65

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



AC Induction Motor Performance Data

Record # 59169 - Typical performance - not guaranteed values

Winding: 35WGY474-R008	Type: 3516M	Enclosure: TEFC
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Nameplate Data				230 V, 60 Hz: Low 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	3.9 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	4 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	18 A
Service Factor (S.F.)	1.25			No-load Current	1.32 A
NEMA Nom. Eff.	77	Power Factor	87	Line-line Res. @ 25°C	4.88 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
				Rotor inertia	0.0443 LB-FT ²

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	74	81	85	87	87	87
Efficiency	54	67.8	73.5	75.1	75.6	74.6	75.6
Speed	3549	3513	3474	3432	3384	3330	3384
Line amperes	1.54	1.88	2.34	2.86	3.44	4.12	3.44

Performance Graph at 230V, 60Hz, 1.0HP Typical performance - Not guaranteed values

