

BALDOR® • RELIANCE

Product Information Packet

VM3546T-50

1HP,1440RPM,3PH,50HZ,143TC,3517M,TEFC,F1

Part Detail							
Revision:	D	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3517M	Elec. Spec:	35WGP870	CD Diagram:	CD0044
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35A003	Layout:	35LYA003
Frame:	143TC	Mounting:	F1	Poles:	04	Created Date:	08-16-2010
Base:	N	Rotation:	R	Insulation:	F	Eff. Date:	03-19-2012
Leads:	12#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1372L									
CAT.NO.									
SPEC.	35A003P870G1								
HP	1								
VOLTS	220/380/440								
AMP	3.1/1.8/1.55								
RPM	1440								
FRAME	143TC	HZ			50	PH		3	
SER.F.	1.15	CODE			K	DES		B	CL F
NEMA-NOM-EFF	80	PF			78				
RATING	40C AMB-CONT								
CC		USABLE AT 208V							
DE	6205	ODE			6203				
ENCL	TEFC	SN							
	IP44								

Parts List		
Part Number	Description	Quantity
SA201776	SA 35A003P870G1	1.000 EA
RA189071	RA 35A003P870G1	1.000 EA
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	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
35EP3100M01	FREP TEFC 203 BRG W/GRSR (RAISED FH PADS	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03SP	WAVY WASHER (W1543-017)	1.000 EA
35EP3300A46	SPL FACE MTD EP-ENCL-145TC-205 BRG	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
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES W/AUTOPHERETIC	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
HW2501D13SP	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
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA
LC0044	CONNECTION DIAGRAM	1.000 EA
NP1372L	ALUM UL CSA CE CC	1.000 EA
35PA1066	PACKING GROUP COMBINED PRINT	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA

AC Induction Motor Performance Data

Record # 36578 - Typical performance - not guaranteed values

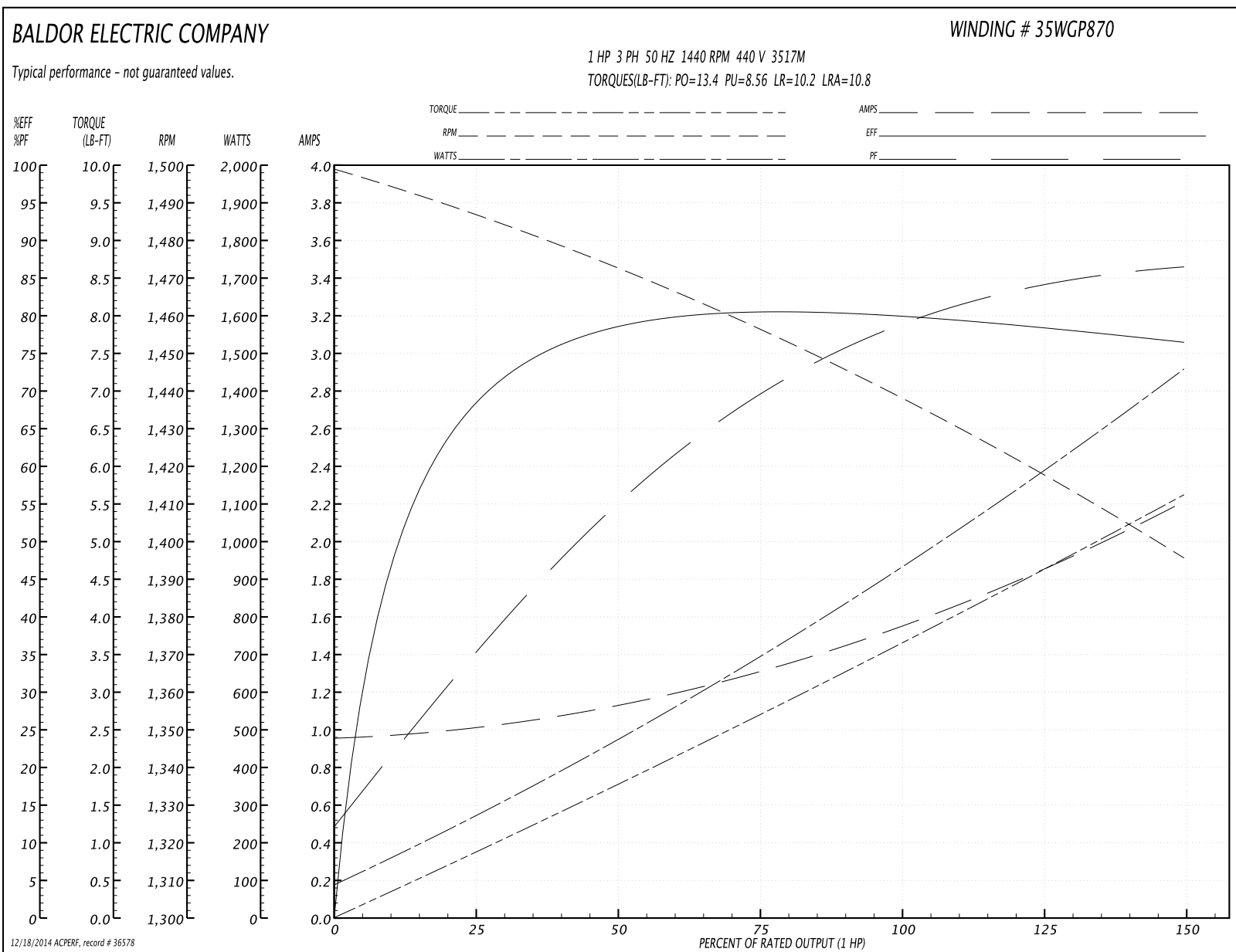
Winding: 35WGP870-R003	Type: 3517M	Enclosure: TEFC
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Nameplate Data				440 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	1			Full Load Torque	3.63 LB-FT
Volts	220/380/440			Start Configuration	direct on line
Full Load Amps	3.1/1.8/1.55			Breakdown Torque	13.4 LB-FT
R.P.M.	1440			Pull-up Torque	8.56 LB-FT
Hz	50	Phase	3	Locked-rotor Torque	10.2 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	10.8 A
Service Factor (S.F.)	1.15			No-load Current	0.964 A
NEMA Nom. Eff.	80	Power Factor	78	Line-line Res. @ 25°C	21 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	53°C
S.F. Amps				Temp. Rise @ S.F. Load	66°C
				Rotor inertia	0.1 LF ²

Load Characteristics 440 V, 50 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	55	69	78	84	87	82
Efficiency	68.1	77.2	80	80.9	78.9	76.1	79.7
Speed	1487	1473	1456	1439	1419	1395	1427
Line amperes	1	1.12	1.31	1.55	1.85	2.21	1.73

Performance Graph at 440V, 50Hz, 1.0HP Typical performance - Not guaranteed values



12/18/2014 ACPERF, record # 36578

