

BALDOR® • RELIANCE

Product Information Packet

M3550T

1.5HP,3450RPM,3PH,60HZ,143T,3520M,TEFC

Part Detail							
Revision:	K	Status:	INA/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3520M	Elec. Spec:	35WGS253	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35T638	Layout:	35LYT638
Frame:	143T	Mounting:	F1	Poles:	02	Created Date:	06-22-2007
Base:	RG	Rotation:	R	Insulation:	B	Eff. Date:	10-04-2010
Leads:	9#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L										
CAT.NO.	M3550T									
SPEC.	35T638S253H1									
HP	1.5									
VOLTS	208-230/460									
AMP	4.3-4.2/2.1									
RPM	3450									
FRAME	143T	HZ			60	PH		3		
SER.F.	1.15	CODE			L	DES		B	CLASS	B
NEMA-NOM-EFF	82.5	PF			85					
RATING	40C AMB-CONT									
CC	010A	USABLE AT 208V			4.3					
DE	6205	ODE			6203					
ENCL	TEFC	SN								

Parts List		
Part Number	Description	Quantity
SA107272	SA 35T638S253H1	1.000 EA
RA098903	RA 35T638S253H1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
S/P101-000-000	EPACT PROCEDURES-FS PLANT-POLYREX EM, NO	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
35EP3101A01SP	STD PU EP-ENCLOSED-205 BRG-W/GREASER	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 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
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
HW2501D13SP	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
10XF0440S02	04-40 X 1/8 TYPE F HEX HD STAINLESS STIC	2.000 EA
MJ1000A75	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB

Parts List (continued)		
Part Number	Description	Quantity
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LB1125C04	STD-E (STOCK CTN LABEL STD-E WITH FLAG)	1.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
PA1000	PACKING GROUP 3500 SHORT	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 10/13	1.000 EA

Accessories		
Part Number	Description	Multiplier
35-8762	C FACE KIT	A8
35EP1506A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 8960 - Typical performance - not guaranteed values

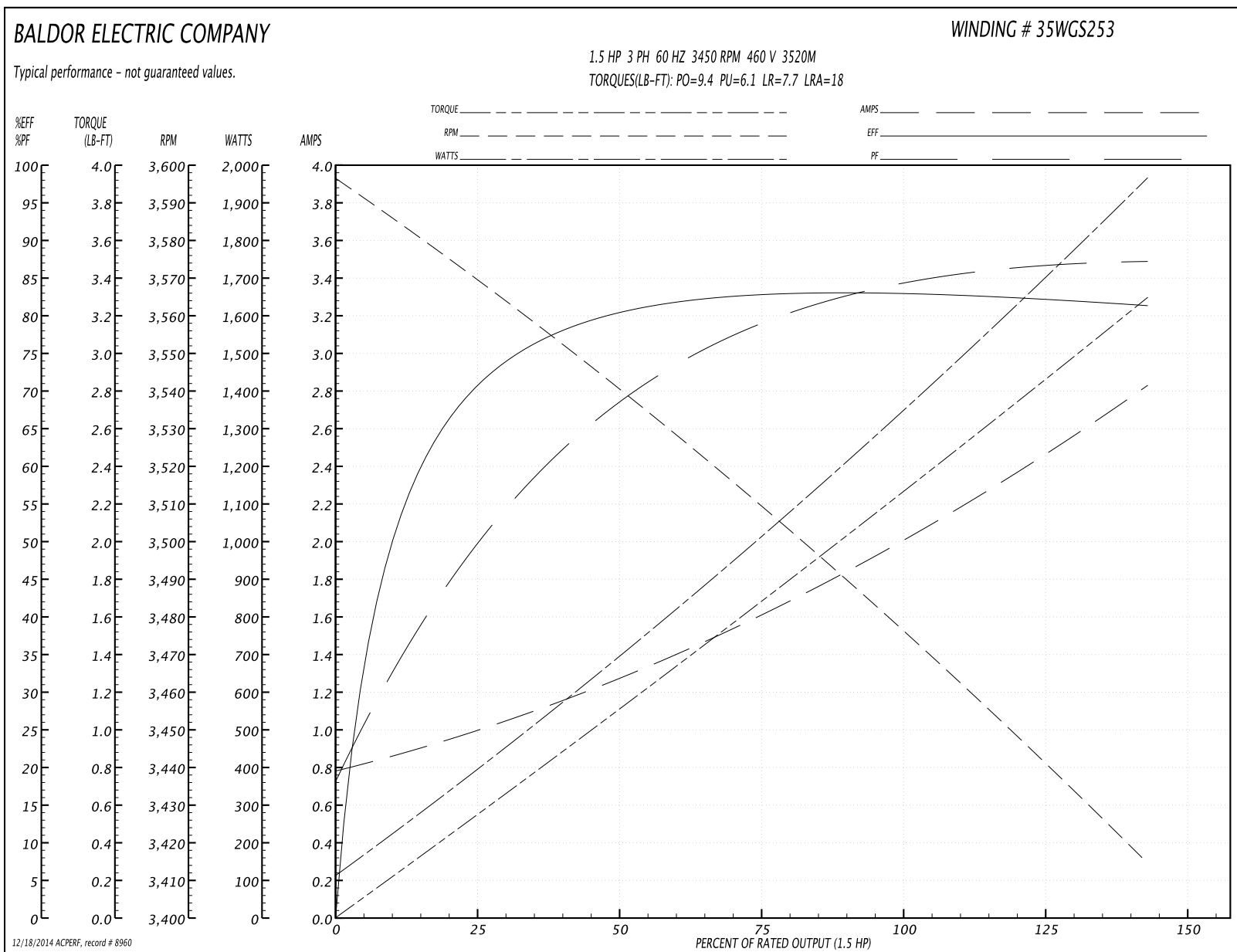
Winding: 35WGS253-R003	Type: 3520M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.2 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	4.3-4.2/2.1			Breakdown Torque	9.4 LB-FT
R.P.M.	3450			Pull-up Torque	6.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	7.7 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	18 A
Service Factor (S.F.)	1.15			No-load Current	0.8 A
NEMA Nom. Eff.	82.5	Power Factor	85	Line-line Res. @ 25°C	11.6 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	42°C
S.F. Amps				Temp. Rise @ S.F. Load	49°C
				Rotor inertia	0.0548 LF ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	76	85	89	92	94	91
Efficiency	71.6	80.1	82.6	83	82.5	81.3	82.7
Speed	3566	3540	3513	3481	3449	3413	3462
Line amperes	1	1.2	1.6	2	2.4	2.8	2.2

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 20978 - Typical performance - not guaranteed values

Winding: 35WGS253-R007	Type: 3520M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	1.5			Full Load Torque	2.2 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	4.3-4.2/2.1			Breakdown Torque	9.4 LB-FT
R.P.M.	3450			Pull-up Torque	6.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	7.7 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	18 A
Service Factor (S.F.)	1.15			No-load Current	0.8 A
NEMA Nom. Eff.	82.5	Power Factor	85	Line-line Res. @ 25°C	11.6 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	42°C
S.F. Amps				Temp. Rise @ S.F. Load	49°C
				Rotor inertia	0.0548 LF ²

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	58	76	85	89	92	94	0
Efficiency	71.6	80.1	82.6	83	82.5	81.3	0
Speed	3566	3540	3513	3481	3449	3413	0
Line amperes	1	1.2	1.6	2	2.4	2.8	2.2

Performance Graph at 460V, 60Hz, 1.5HP Typical performance - Not guaranteed values

