

BALDOR® • RELIANCE

Product Information Packet

M1756T

2/.5HP,1730/860RPM,3PH,60HZ,145T,3531M,T

Part Detail							
Revision:	E	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3531M	Elec. Spec:	35WGP582	CD Diagram:	CD0032
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	35AA001	Layout:	35LYAA001
Frame:	145T	Mounting:	F1	Poles:	04/08	Created Date:	12-21-2009
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	07-24-2014
Leads:	6#18					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1256L										
CAT.NO.	M1756T									
SPEC.	35AA001P582									
HP	2/.5									
VOLTS	460									
AMP	2.95/1.32									
RPM	1730/860									
FRAME	145T	HZ			60	PH		3		
SER.F.	1.15	CODE			L	DES		-	CLASS	F
NEMA-NOM-EFF		PF								
RATING	40C AMB-CONT									
CC		USABLE AT 208V								
DE	6205	ODE			6203					
ENCL	TEFC	SN								

Parts List		
Part Number	Description	Quantity
SA189000	SA 35AA001P582	1.000 EA
RA176719	RA 35AA001P582	1.000 EA
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB CASTING W/1.09 DIA. LEAD HOLE @ 6:	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
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 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
MG1000G27	MED CHARCOAL METALLIC GREY	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3100A22	THRUBOLT 10-32 X 10.125	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LB1125C01	STD (STOCK) CARTON LABEL BALDOR WITH FLA	1.000 EA
LC0032	CONNECTION LABEL	1.000 EA
NP1256L	ALUM UL CSA CC	1.000 EA
PA1000	PACKING GROUP 3500 SHORT	1.000 EA
LB1506	LABEL "AMERICAN MADE" 1.50 X 1.00	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 # 27973 - Typical performance - not guaranteed values

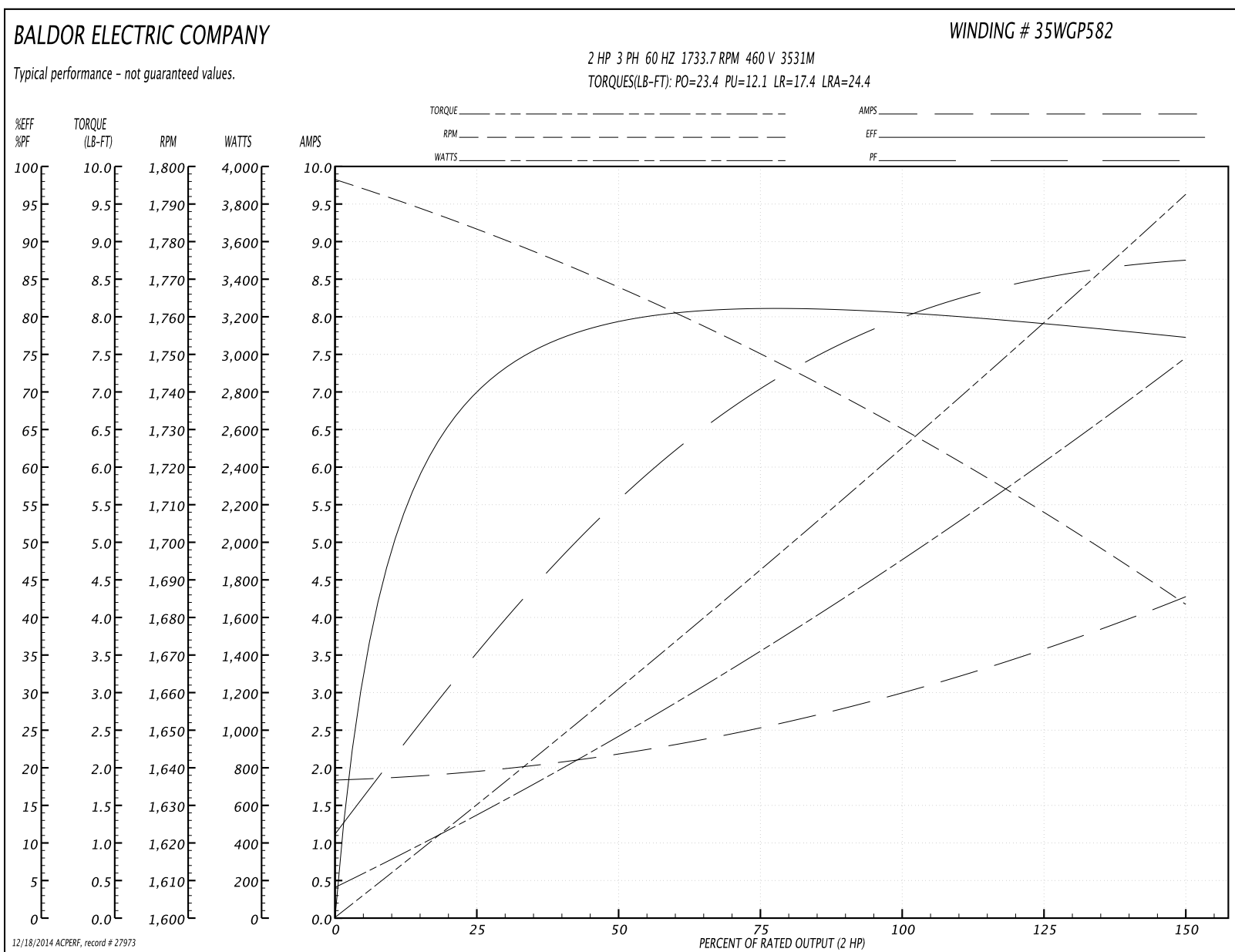
Winding: 35WGP582-R001	Type: 3531M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: High Speed Connection	
Rated Output (HP)	2/5			Full Load Torque	6.02 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	2.95/1.32			Breakdown Torque	23.4 LB-FT
R.P.M.	1730/860			Pull-up Torque	12.1 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	17.4 LB-FT
NEMA Design Code	-	KVA Code	L	Starting Current	24.4 A
Service Factor (S.F.)	1.15			No-load Current	1.86 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	9.97 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	75°C
S.F. Amps				Temp. Rise @ S.F. Load	91°C

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	69	78	84	88	82
Efficiency	69	78.9	81.3	81.1	79.8	77.2	80.3
Speed	1783.5	1768.2	1752	1733.7	1712.7	1682.7	1721
Line amperes	1.92	2.14	2.49	2.95	3.49	4.26	3.27

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 27975 - Typical performance - not guaranteed values

Winding: 35WGP582-R001	Type: 3531M	Enclosure: TEFC
-------------------------------	--------------------	------------------------

Nameplate Data				460 V, 60 Hz: Low Speed Connection	
Rated Output (HP)	2/5			Full Load Torque	3.03 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	2.95/1.32			Breakdown Torque	11.1 LB-FT
R.P.M.	1730/860			Pull-up Torque	7.09 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	7.6 LB-FT
NEMA Design Code	-	KVA Code	L	Starting Current	5.73 A
Service Factor (S.F.)	1.15			No-load Current	1.15 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	39.7 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	59°C
S.F. Amps				Temp. Rise @ S.F. Load	66°C

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	25	35	45	53	61	68	58
Efficiency	40.3	56.4	63.5	66.3	67.3	66.3	66.9
Speed	891	882.4	872.5	861.8	849.5	831.6	854
Line amperes	1.15	1.18	1.24	1.32	1.43	1.6	1.39

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values

