

BALDOR® • RELIANCE

Product Information Packet

M1756T

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

Part Detail

Revision:	K	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGP582	CD Diagram:	CD0032	Mfg Plant:	
Mech. Spec:	35AA001	Layout:	35LYAA001	Poles:	04/08	Created Date:	12-21-2009
Base:	RG	Eff. Date:	06-28-2017	Leads:	6#18		

Specs

Catalog Number:	M1756T	Insulation Class:	F
Enclosure:	TEFC	Inverter Code:	Not Inverter
Frame:	145T	KVA Code:	L
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	2.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
	.500 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 18 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3531M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxiliary Box:	No Auxiliary Box	Pulley Face Code:	Standard
Auxiliary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	2.950 A @ 460.0 V	Shaft Rotation:	Reversible

Design Code:	-	Shaft Slinger Indicator:	No Slinger
Drip Cover:	No Drip Cover	Speed Code:	2S-1W-VT
Duty Rating:	CONT	Motor Standards:	NEMA
Electrically Isolated Bearing:	Not Electrically Isolated	Starting Method:	Direct on line
Feedback Device:	NO FEEDBACK	Thermal Device - Bearing:	None
Front Face Code:	Standard	Thermal Device - Winding:	None
Front Shaft Indicator:	None	Vibration Sensor Indicator:	No Vibration Sensor
Heater Indicator:	No Heater	Winding Thermal 1:	None
		Winding Thermal 2:	None

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							

AC Induction Motor Performance Data

Record # 27973 - Typical performance - not guaranteed values

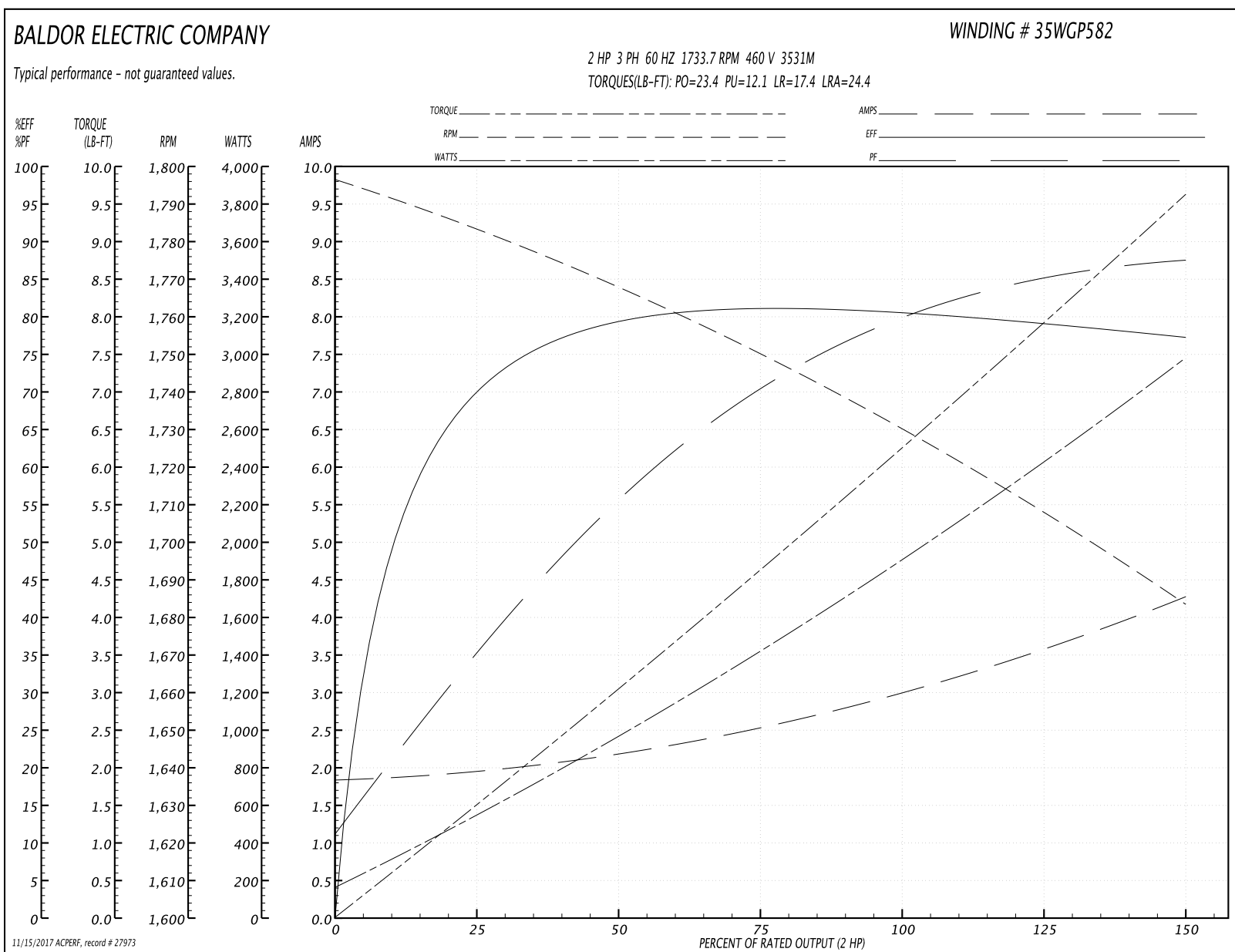
Winding: 35WGP582-R001	Type: 3531M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Speed Connection	
Rated Output (HP)	2/5			Full Load Torque	6.02 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	2.95/1.32			Breakdown Torque	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
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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

