

BALDOR® • RELIANCE

Product Information Packet

M1728T

20/8.9HP,1760/1160RPM,3PH,60HZ,286T

Part Detail							
Revision:	Y	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	10WGW440	CD Diagram:	CD0013	Mfg Plant:	
Mech. Spec:	10C151	Layout:	10LYC151	Poles:	04/06	Created Date:	
Base:	RG	Eff. Date:	09-28-2017	Leads:	6#10		

Specs			
Catalog Number:	M1728T	Heater Indicator:	No Heater
Enclosure:	TEFC	Insulation Class:	F
Frame:	286T	Inverter Code:	Not Inverter
Frame Material:	Iron	KVA Code:	J
Output @ Frequency:	20.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
	8.900 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	6 @ 10 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
XP Class and Group:	None	Motor Lead Termination:	Flying Leads
XP Division:	Not Applicable	Motor Type:	1046M
Agency Approvals:	UR	Mounting Arrangement:	F1
	CSA	Product Family:	General Purpose
Auxiliary Box:	No Auxiliary Box	Pulley End Bearing Type:	Ball
Auxiliary Box Lead Termination:	None	Pulley Face Code:	Standard
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	27.000 A @ 460.0 V	Shaft Ground Indicator:	No Shaft Grounding

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

Nameplate NP1256L

CAT.NO.	M1728T										
SPEC.	10C151W440										
HP	20/8.9										
VOLTS	460										
AMP	27/14										
RPM	1760/1160										
FRAME	286T				HZ		60			PH	3
SER.F.	1.15		CODE		J	DES		A		CLASS	F
NEMA-NOM-EFF				PF							
RATING	40C AMB-CONT										
CC				USABLE AT 208V							
DE	6311			ODE		6309					
ENCL	TEFC		SN								

AC Induction Motor Performance Data

Record # 36422 - Typical performance - not guaranteed values

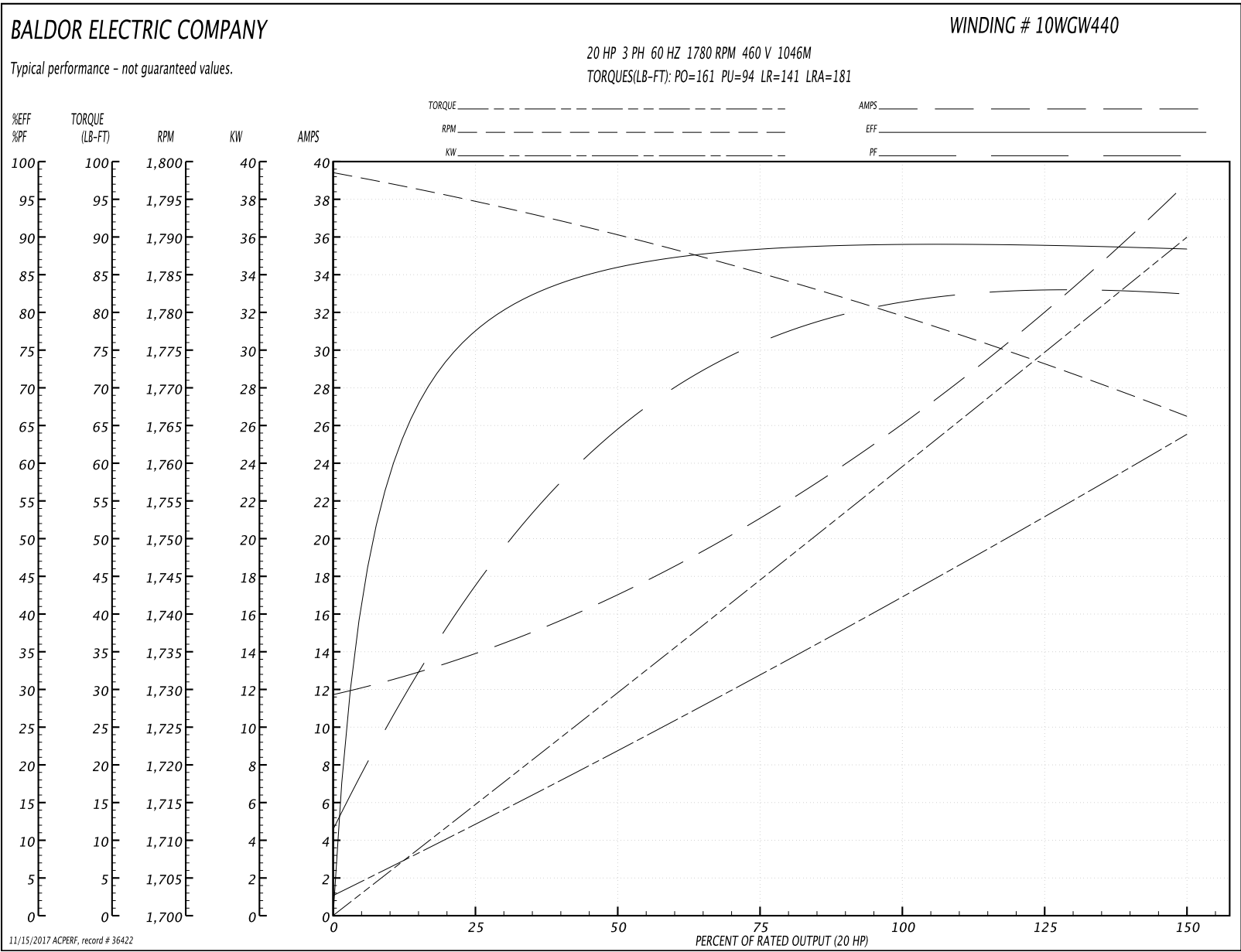
Winding: 10WGW440-R003	Type: 1046M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Speed Connection	
Rated Output (HP)	20/8.9			Full Load Torque	60 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	27/14			Breakdown Torque	161 LB-FT
R.P.M.	1760/1160			Pull-up Torque	94 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	141 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	181 A
Service Factor (S.F.)	1.15			No-load Current	11.9 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	0.517 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	73°C
S.F. Amps				Temp. Rise @ S.F. Load	85°C
				Locked-rotor Power Factor	40.5

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	66	76	81	83	83	82
Efficiency	77.4	85.8	88.4	89.2	89	88.3	89.1
Speed	1794	1790	1785	1780	1773	1766	1776
Line amperes	13.7	17	21.4	26.3	32.2	38.8	29.8

Performance Graph at 460V, 60Hz, 20.0HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 36423 - Typical performance - not guaranteed values

Winding: 10WGW440-R003	Type: 1046M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: Low Speed Connection	
Rated Output (HP)	20/8.9			Full Load Torque	39.5 LB-FT
Volts	460			Start Configuration	direct on line
Full Load Amps	27/14			Breakdown Torque	108 LB-FT
R.P.M.	1760/1160			Pull-up Torque	75 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	123 LB-FT
NEMA Design Code	A	KVA Code	J	Starting Current	87.3 A
Service Factor (S.F.)	1.15			No-load Current	7.5 A
NEMA Nom. Eff.	0	Power Factor	0	Line-line Res. @ 25°C	1.516 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	50°C
S.F. Amps				Temp. Rise @ S.F. Load	58°C
				Locked-rotor Power Factor	43.3

Load Characteristics 460 V, 60 Hz, 8.9 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	37	55	66	71	76	77	74
Efficiency	70.7	81.9	85.3	86.3	86.2	85.6	86.2
Speed	1197	1194	1191	1187	1183	1179	1185
Line amperes	8.1	9.4	11.2	13.6	16	18.8	15

Performance Graph at 460V, 60Hz, 8.9HP Typical performance - Not guaranteed values

