

BALDOR® • RELIANCE 

Product Information Packet

M1728T

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

Part Detail							
Revision:	AB	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:	06-16-2021	Leads:	6#10		

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

Current @ Voltage:	27.000 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	A	Speed Code:	2S-2W-VT
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None

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							

Parts List		
Part Number	Description	Quantity
SA013446	SA 10C151W440	1.000 EA
RA009643	RA 10C151W440	1.000 EA
10CB3000SP	KOBX, CAST W/2.00 LEAD HOLE	1.000 EA
09GS1000SP	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 EA
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
10EP1106A01	FR ENDPLATE, MACH	1.000 EA
10XN3816K32	BOLT, 3/8-16X2 HH YZ(5)	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 EA
10XN2520K32	1/4-20 X 2.00 HX HD SCRW GRADE 5, ZINC P	2.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 EA
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 EA
10EP1105A01	PU ENDPLATE	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
10FH4000	310 FAN HOUSING STAMPED	1.000 EA
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	4.000 EA
10CB3500SP	CONDUIT BOX LID, CAST	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 EA
HW4600B40	V-RING SLINGER 2.000 X 2.680 X .28 VITON	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2501H28	KEY, 1/2 SQ X 3.250	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 EA
HA4017A01	1/8 X 4 GREASE EXT (F/S)	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 LB
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 EA
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 EA
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 EA
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 EA
10GS1000SP	GASKET, CONDUIT BOX LID	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
10FN3001A01	EXTERNAL FAN	1.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
HA6390A01	HOSE CLAMP FOR 3.12 DIA S.S. OR PLATED	1.000 EA
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.125 GA
LB1119N	WARNING LABEL	1.000 EA
LC0013	CONNECTION LABEL	1.000 EA
NP1256L	ALUM UL CSA CC INDUSTRIAL MOTOR A60	1.000 EA
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 EA
FE-0000022	ZRTG FE ASSEMBLY	1.000 EA

PE-0000013	ZRTG PE ASSEMBLY	1.000 EA
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Accessories		
Part Number	Description	Multiplier
10-1305	C FACE KIT	A8
10EP1502A01SP	D-FLANGE KIT	A8

AC Induction Motor Performance Data

Record # 36422

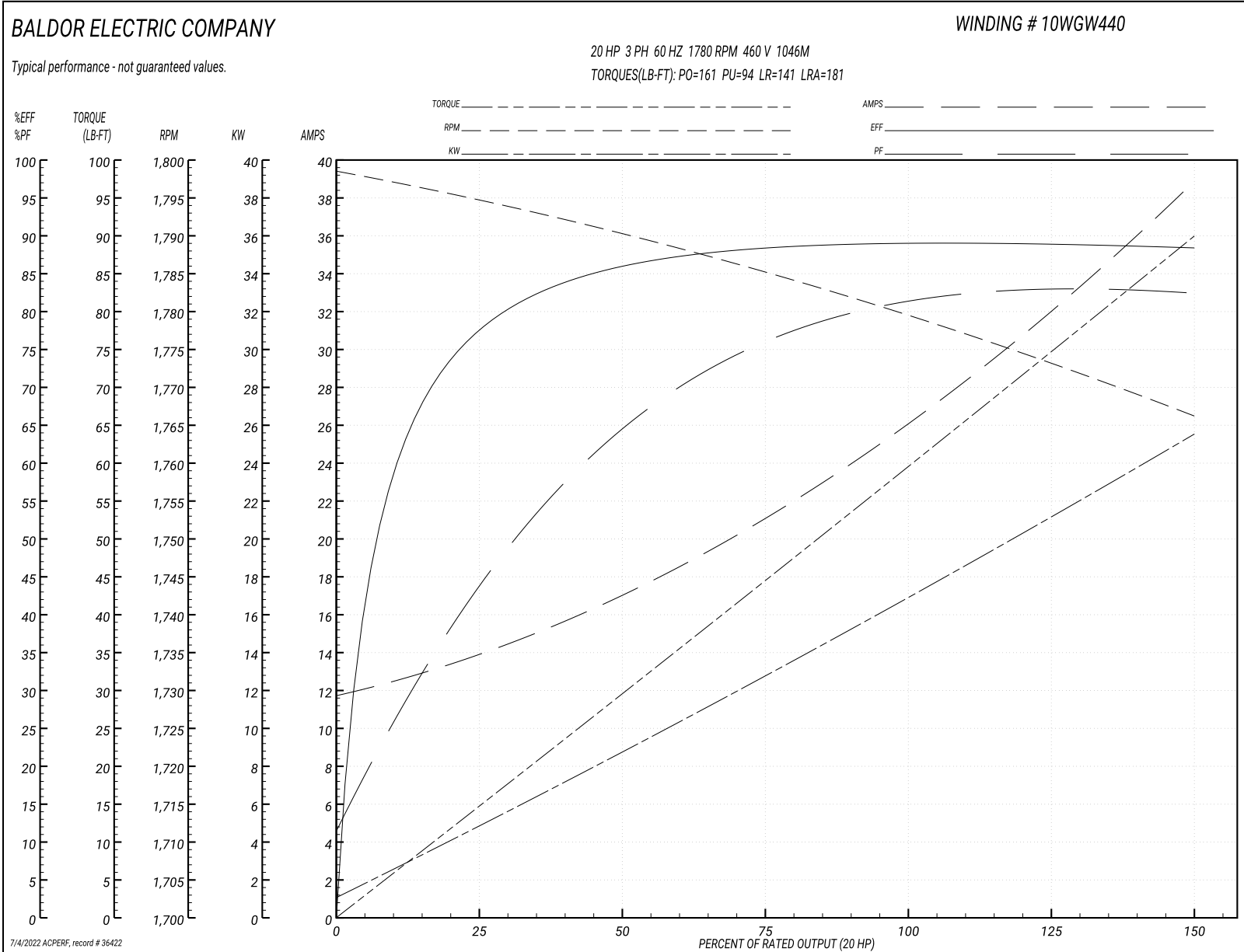
Typical performance - not guaranteed values

Winding: 10WGW440-R003		Type: 1046M		Enclosure: TEFC	
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

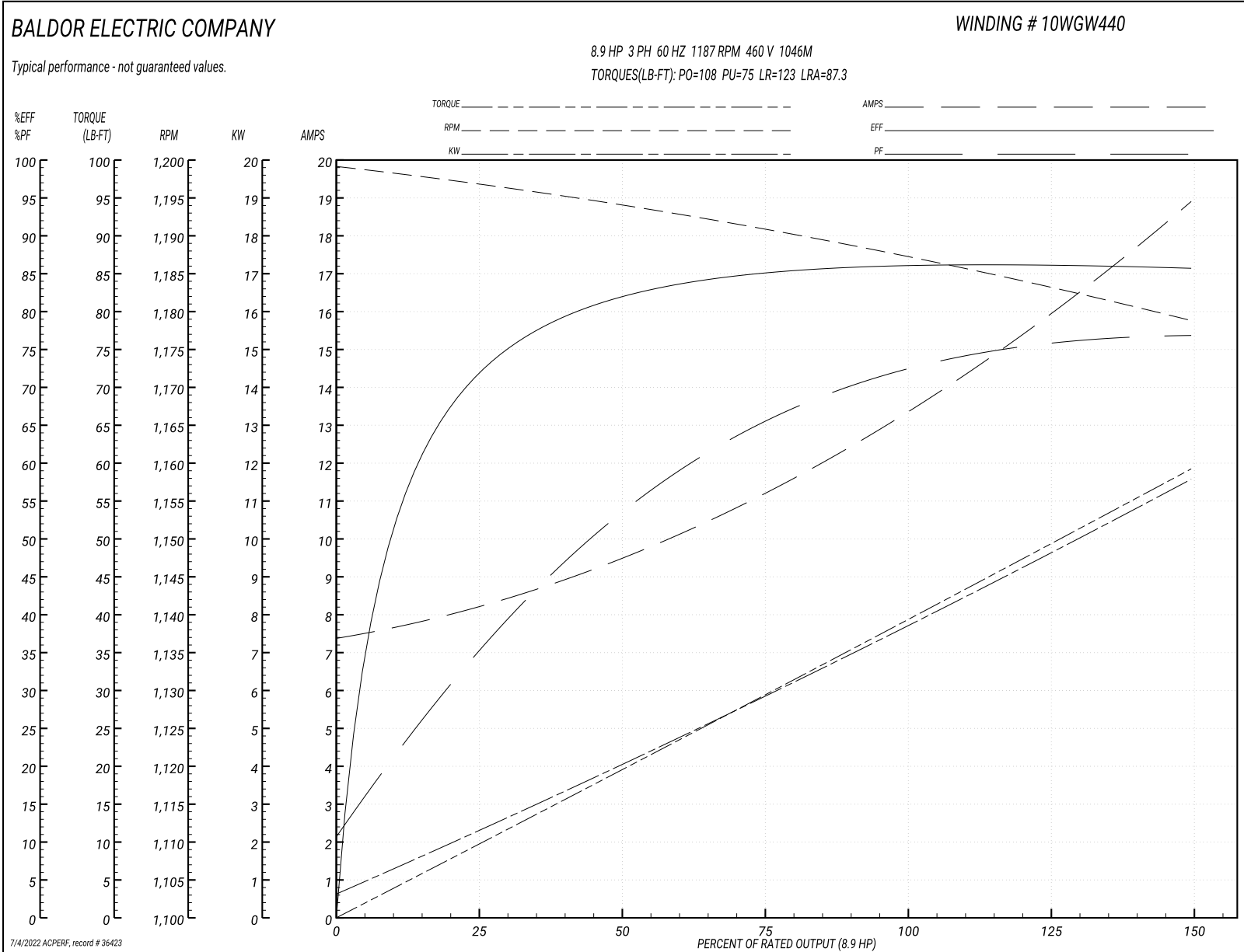
Typical performance - not guaranteed values

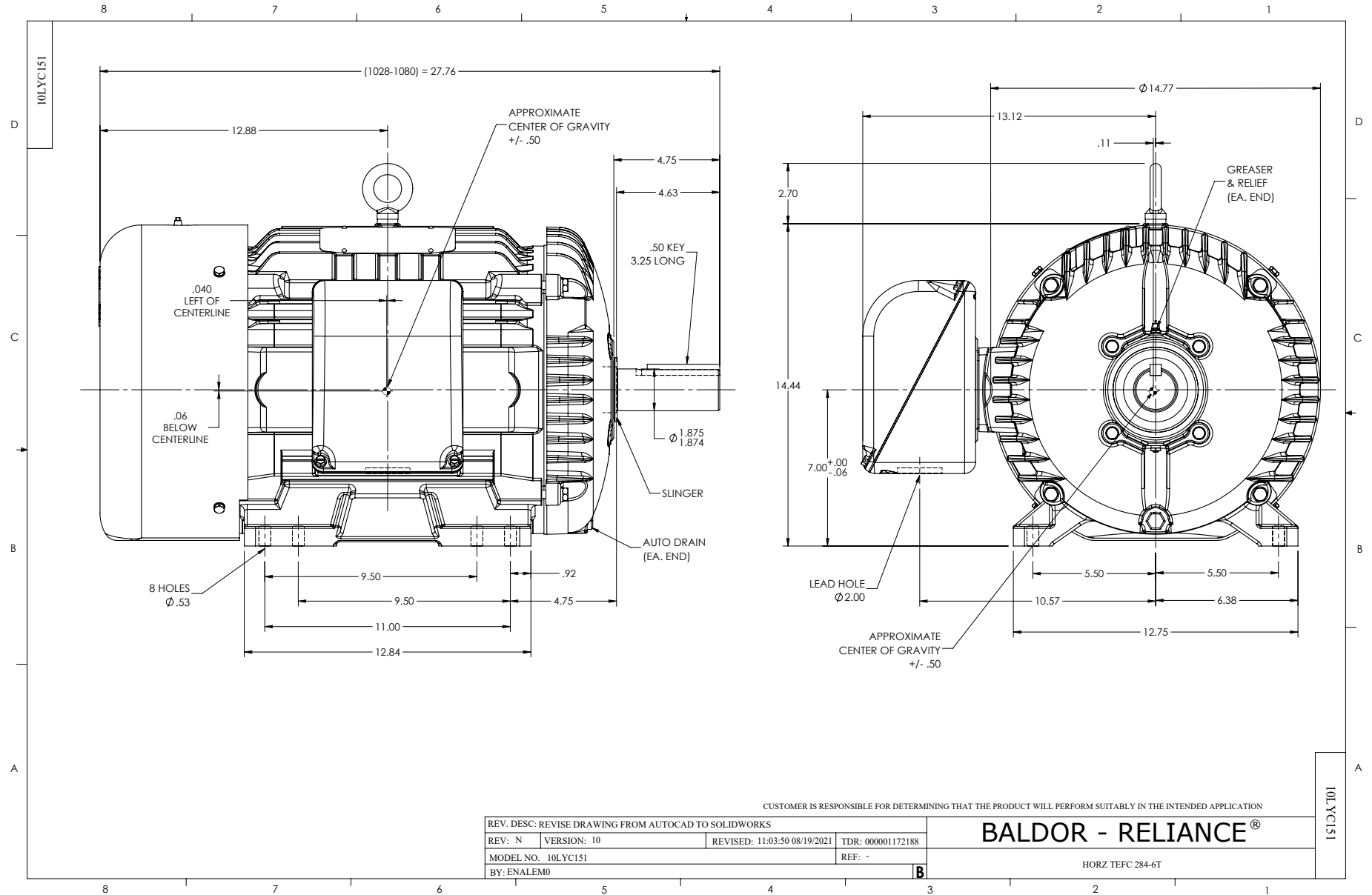
Winding: 10WGW440-R003		Type: 1046M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Low Speed Connection		
Rated Output (HP)	20/8.9	Full Load Torque	39.5 LB-FT		
Volts	460	Start Configuration	direct on line		
Full Load Amps	27/14	Breakdown Torque	108 LB-FT		
R.P.M.	1760/1160	Pull-up Torque	75 LB-FT		
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





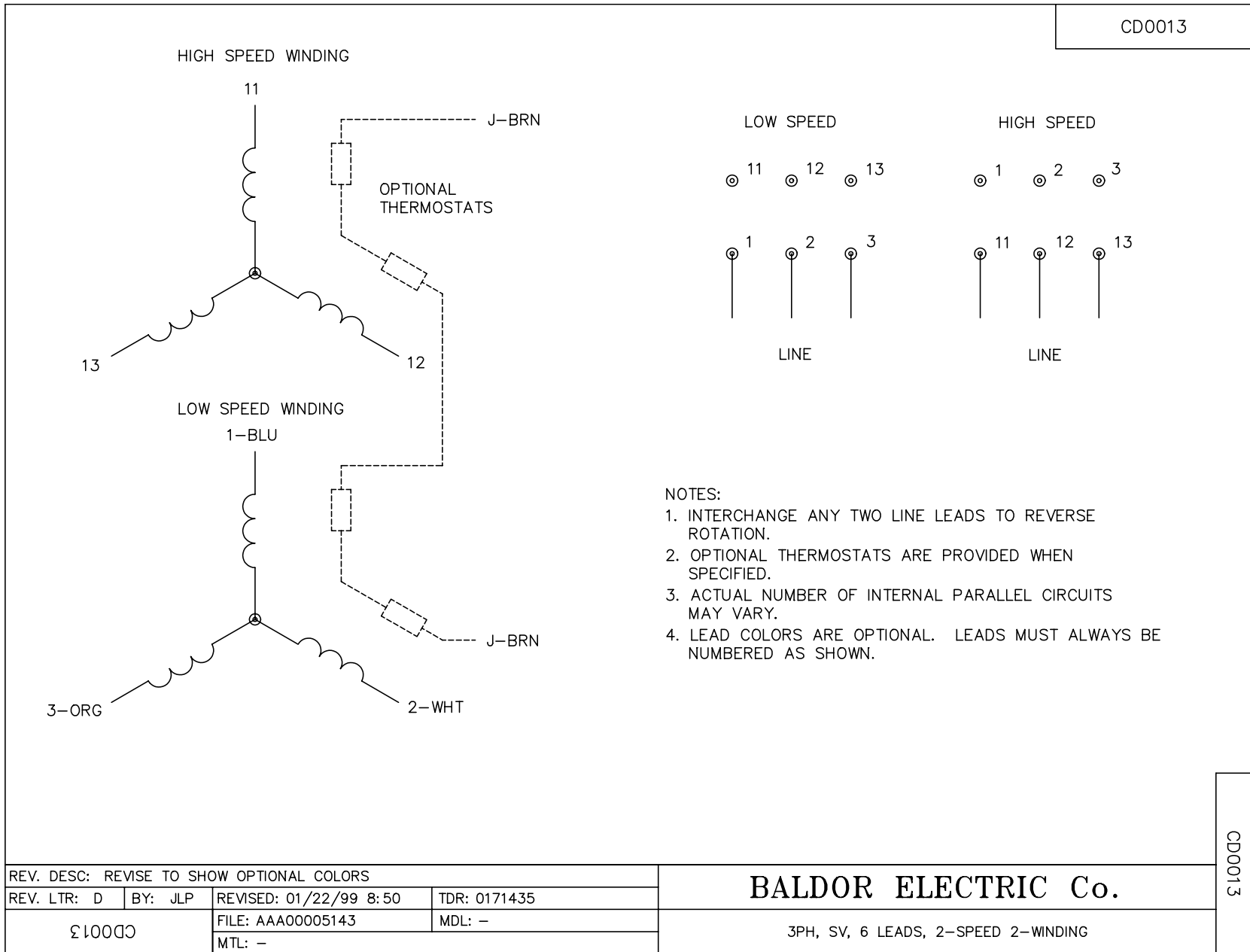
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: REVISE DRAWING FROM AUTOCAD TO SOLIDWORKS			
REV: N	VERSION: 10	REVISED: 11:03:50 08/19/2021	TDR: 000001172188
MODEL NO. 10LYC151		REF: -	
BY: ENALEM0		B	

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HORZ TEFC 284-6T

10LYC151



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