ABB BALDOR RELIANCE

Customer information packet

M1728T

20/8.9HP, 1760/1160RPM, 3PH, 60HZ, 286T
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	286T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	8.900 HP @ 60 HZ
	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	27.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	14.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	AH
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGW440
Layout	10LYC151
Eff. date	01-07-2026
CD Diagram	CD0013
Poles	04/06
Leads	6#10
Proprietary	False
Created date	01-01-0001

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	4
	6
Overall Length	27.76 IN
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1160 rpm
	1760 rpm
Speed Code	2S-2W-VT
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
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									
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
09GS1000	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
10XN2520K36	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, PRIMED W/O P SU	1.000 ea
51XF2520A08	SCREW, HEX SER SLT HD, ZN 1/4-20 X .50 L	4.000 ea
10CB3500	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
HW2501H28	KEY, 1/2 SQ X 3.250	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
10GS1000	GASKET, CONDUIT BOX LID	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
10FN3001A01	EXTERNAL FAN	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
HA6390A01	#44, 3.12" DIA WORM DRIVE HOSE CLAMP	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.125 ga
LC0013	CONNECTION LABEL	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A07	1.000 ea
FE-0000022	ZRTG FE ASSEMBLY	1.000 ea
PE-0000013	ZRTG PE ASSEMBLY	1.000 ea

Accessories

Part number	Description	Multiplier
10-1305	C FACE KIT	A8
10EP1502A01SP	D-FLANGE KIT	A8

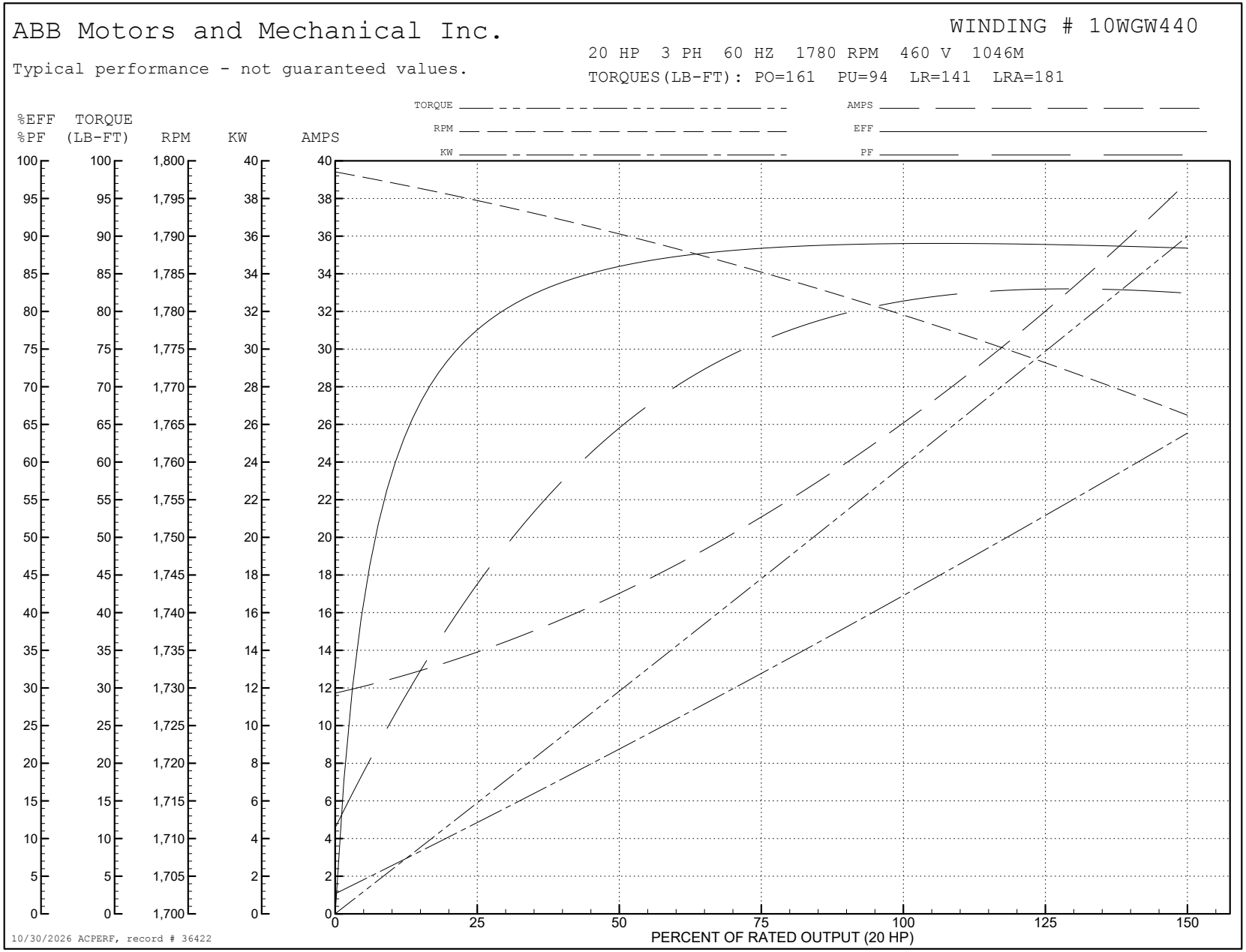
AC Induction Motor Performance Data
Record # 36422
Typical performance - not guaranteed values

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. @ 25ºC**	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


ABB Motors and Mechanical Inc.
WINDING # 10WGW440
Typical performance - not guaranteed values.
20 HP 3 PH 60 HZ 1780 RPM 460 V 1046M
TORQUES(LB-FT): PO=161 PU=94 LR=141 LRA=181
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
10/30/2026 ACPERF, record # 36422

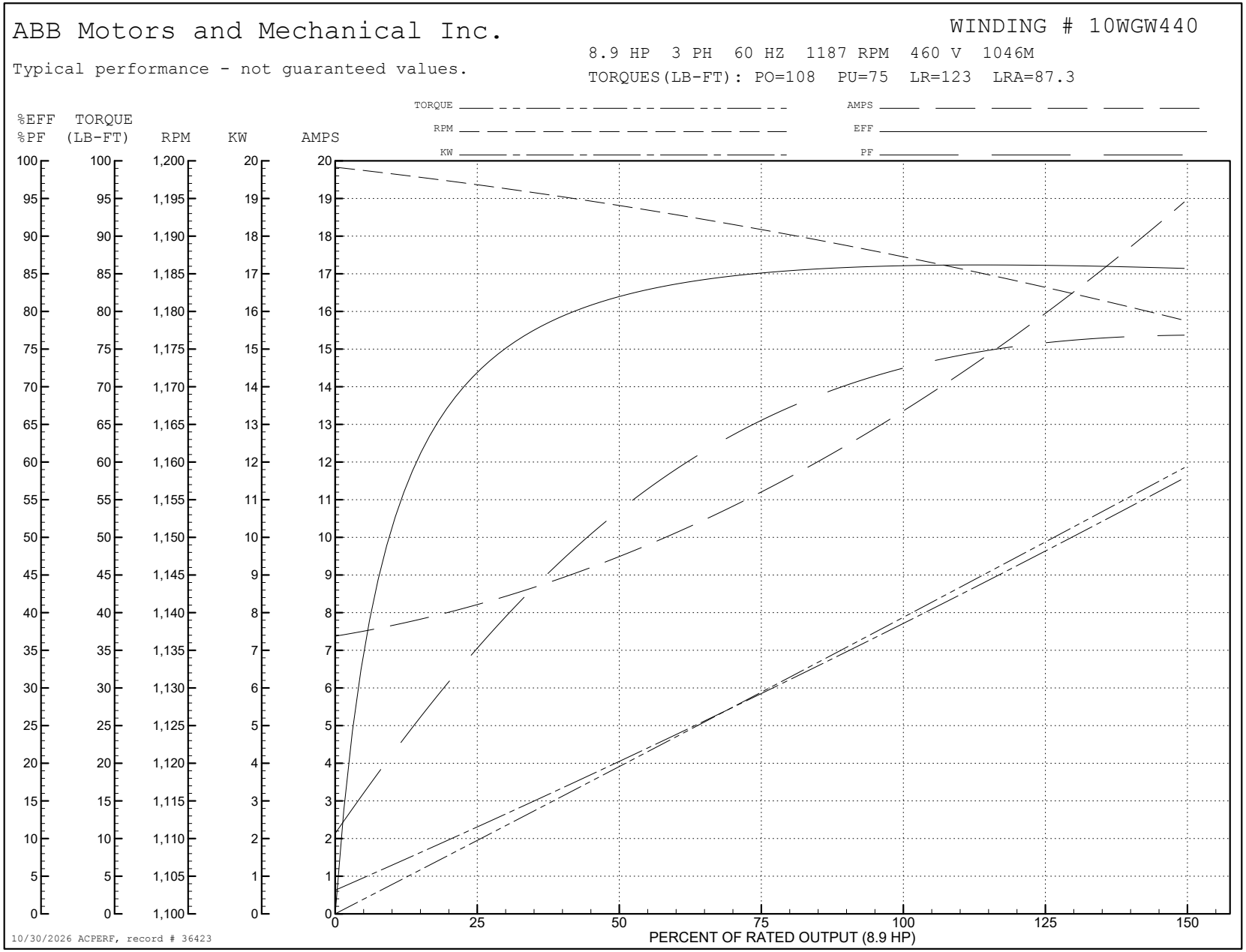
AC Induction Motor Performance Data
Record # 36423
Typical performance - not guaranteed values

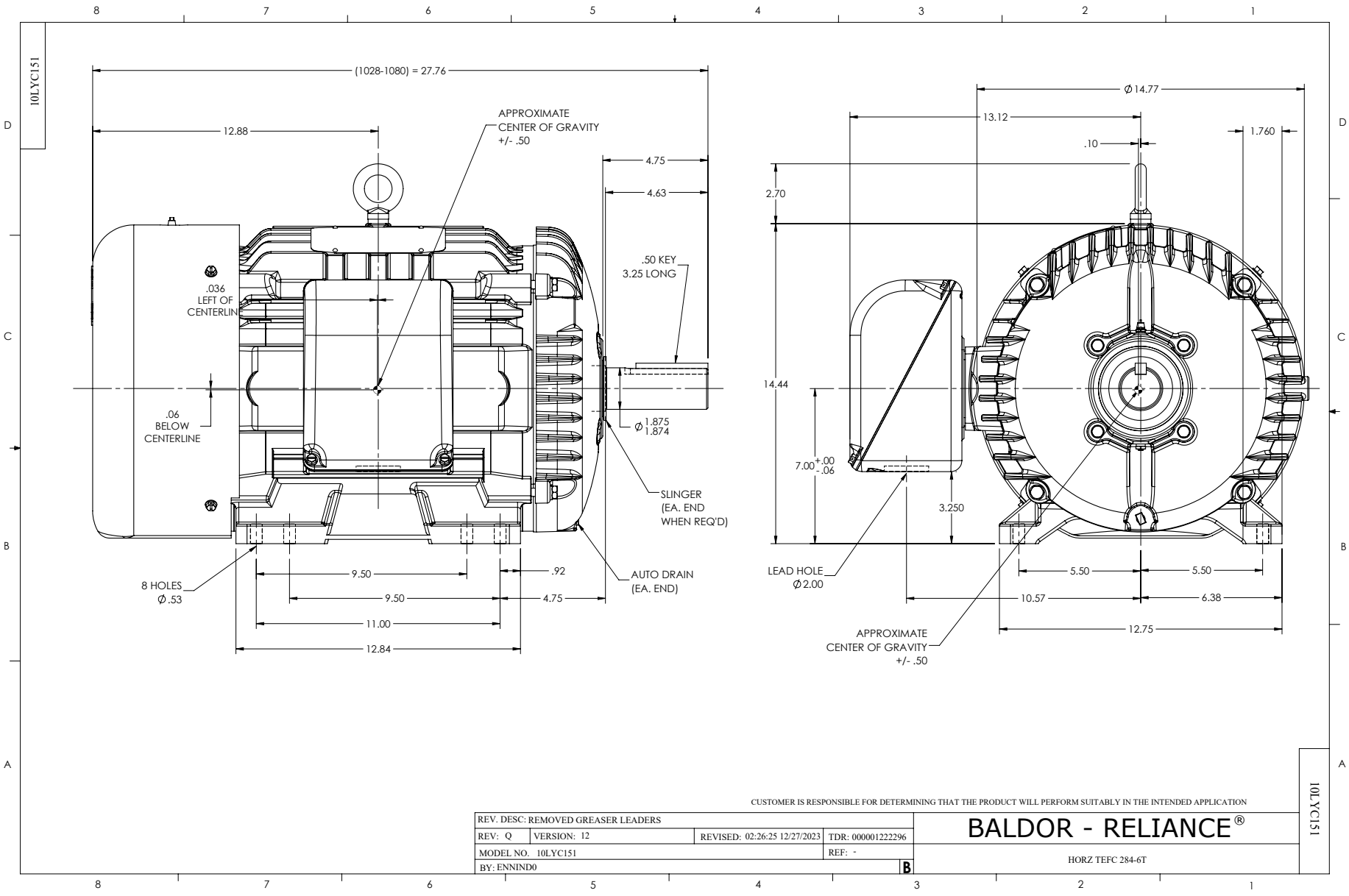
Winding: 10WGW440-R003	**Type:** 1046M	**Enclosure:** TEFC

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. @ 25ºC**	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

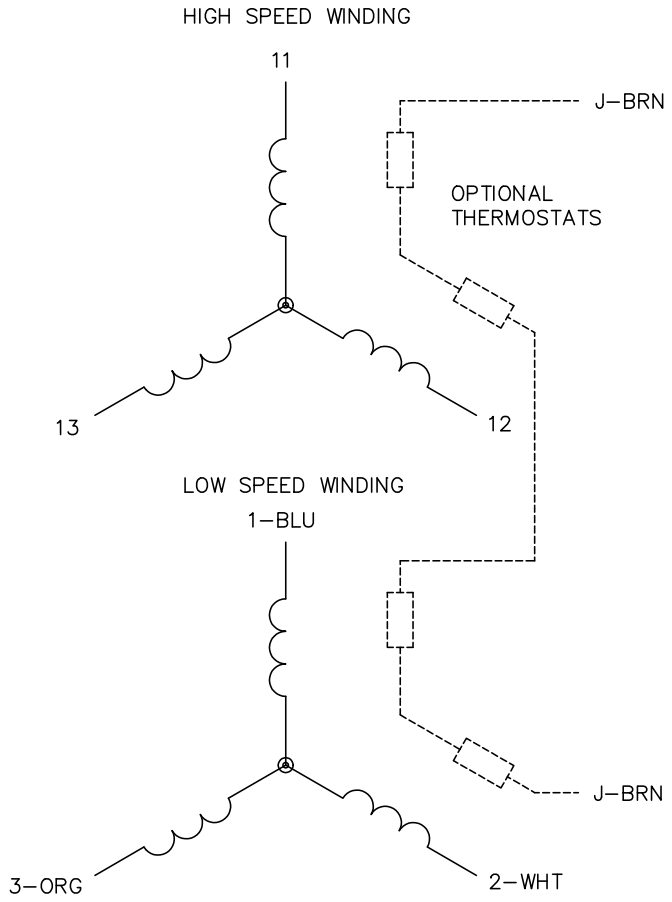
Load Characteristics 460 V, 60 Hz, 8.9 HP

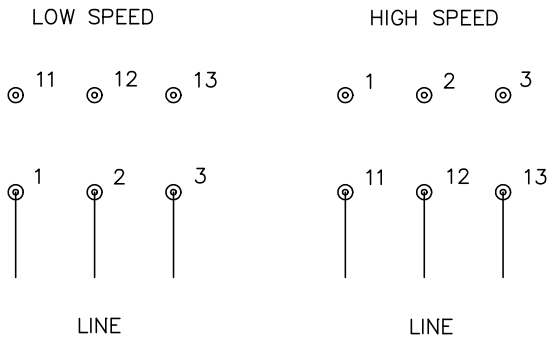
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	55	66	71	76	77	74
Efficiency	70.7	81.9	85.3	86.3	86.2	85.6	86.2
Speed	1197	1194	1191	1187	1183	1179	1185
Line amperes	8.1	9.4	11.2	13.6	16	18.8	15


ABB Motors and Mechanical Inc.
WINDING # 10WGW440
8.9 HP 3 PH 60 HZ 1187 RPM 460 V 1046M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=108 PU=75 LR=123 LRA=87.3
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (8.9 HP)
10/30/2026 ACPERF, record # 36423


10LYC151
(1028-1080) = 27.76
12.88
APPROXIMATE
CENTER OF GRAVITY
+/- .50
4.75
4.63
.50 KEY
3.25 LONG
.036
LEFT OF
CENTERLIN
.06
BELOW
CENTERLINE
Ø 1.875
1.874
SLINGER
(EA. END
WHEN REQ'D)
AUTO DRAIN
(EA. END)
8 HOLES
Ø .53
9.50
.92
9.50
4.75
11.00
12.84
Ø 14.77
13.12
.10
1.760
2.70
14.44
7.00 +.00 -.06
3.250
LEAD HOLE
Ø 2.00
5.50
5.50
10.57
6.38
12.75
APPROXIMATE
CENTER OF GRAVITY
+/- .50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVED GREASER LEADERS
REV: Q
VERSION: 12
REVISED: 02:26:25 12/27/2023
TDR: 000001222296
MODEL NO. 10LYC151
REF: -
BY: ENNIND0
B
BALDOR - RELIANCE®
HORZ TEFC 284-6T
10LYC151

CD0013





NOTES:
1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: D	BY: JLP	REVISED: 01/22/99 8:50	TDR: 0171435
CD0013		FILE: AAA00005143	MDL: –
		MTL: –	3PH, SV, 6 LEADS, 2–SPEED 2–WINDING

CD0013