ABB BALDOR RELIANCE

Customer information packet

EM4104T-8

30HP, 1770RPM, 3PH, 60HZ, 286T, 1056M, TEFC, F1
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	200.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM CURUSEEV NEMA PREMIUM (OLD LOGO)
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	84.000 A @ 200.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
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	84.0 a
Insulation Class	F

Part Detail

Revision	Z
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGY760
Layout	10LYC151
Eff. date	03-30-2026
CD Diagram	CD0695
Poles	04
Leads	6#6
Proprietary	False
Created date	04-29-2010

Inverter Code	Inverter Ready
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
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	1770 rpm
Speed Code	Single Speed
Starting Method	Part Winding
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3443L											
CAT.NO.	EM4104T-8			**CUST. P/N**						**ENCL**	TEFC
SPEC.	10C151Y760G1	**CC**	010A	**FRAME**	286T		**SER.NO.**				
HP	30		**CLASS**	F		**HZ**	60				
R.P.M.	1770		**PH**	3		**DES**	A				
VOLTS	200			**CODE**	H		**ODE BRG**	6309	**DE BRG**	6311	
AMPS	84										
RATING	40C AMB-CONT			**NEMA NOM. EFF.**		93.6		**GREASE**	POLYREX EM		
P.F.	83	**SER.F.**	1.15	**VPWM INVERTER READY**							
HTR-VOLTS		**HTR-AMPS**			**HTR-WATTS**						

Accessories

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

AC Induction Motor Performance Data
Record # 30993
Typical performance - not guaranteed values

Winding: 10WGY760-R001	**Type:** 1056M	**Enclosure:** TEFC

Nameplate Data				**200 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			30	**Full Load Torque**	89.13 LB-FT
Volts			200	**Start Configuration**	direct on line
Full Load Amps			81	**Breakdown Torque**	279 LB-FT
R.P.M.			1770	**Pull-up Torque**	133 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	151 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	560 A
Service Factor (S.F.)			1.15	**No-load Current**	38.88 A
NEMA Nom. Eff.	93.6	**Power Factor**	83	**Line-line Res. @ 25ºC**	0.0415 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps				**Temp. Rise @ S.F. Load**	69°C
				Locked-rotor Power Factor	31.6
				Rotor inertia	4.45 LB-FT2

Load Characteristics 200 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	73	82	82	82	82
Efficiency	90.3	93.6	94.3	94.1	93.3	93.1	93.7
Speed	1794	1787	1781	1775	1767	1758	1770
Line amperes	43.24	54.63	70.59	84.33	105	126	96.7

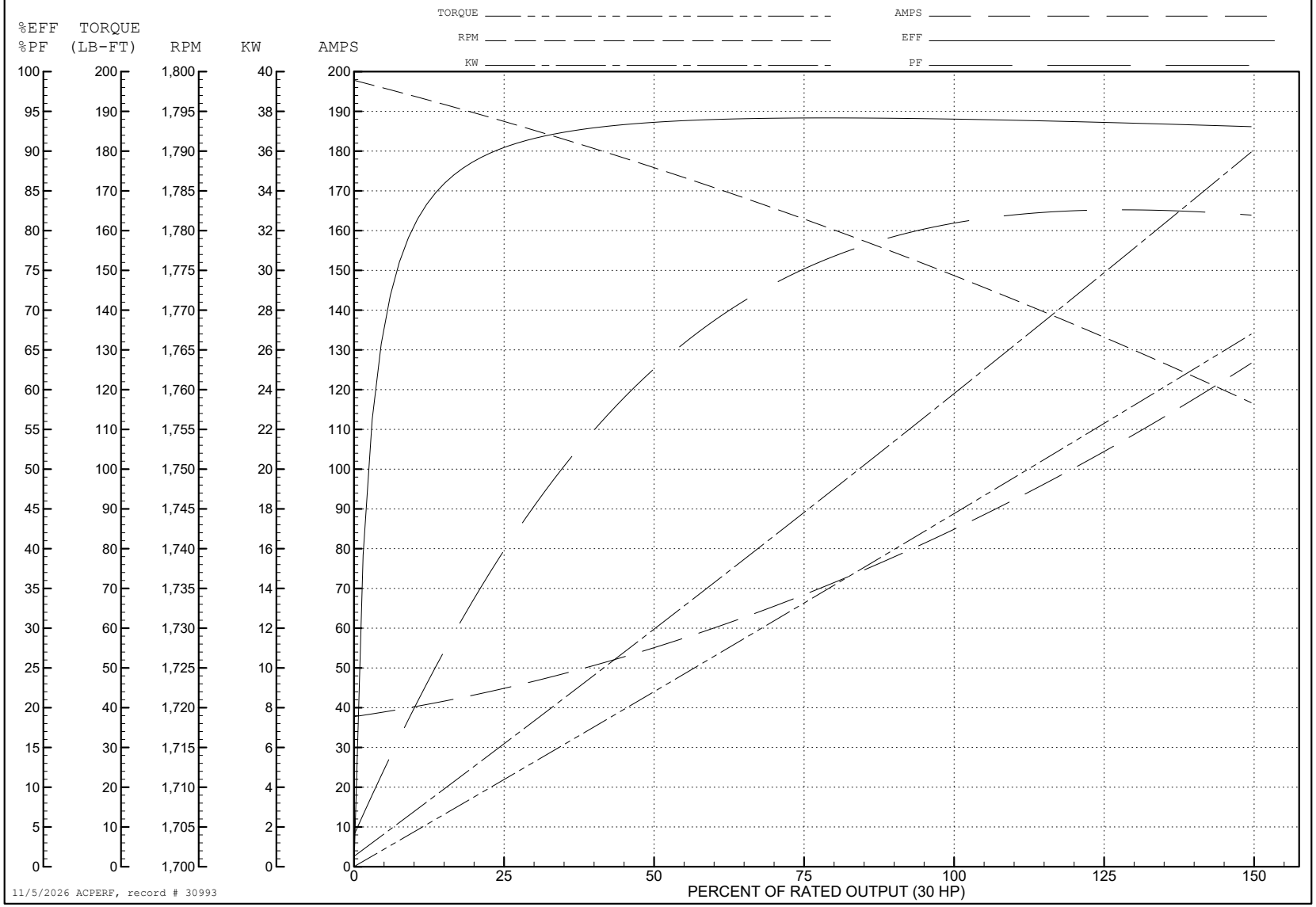
ABB Motors and Mechanical Inc.

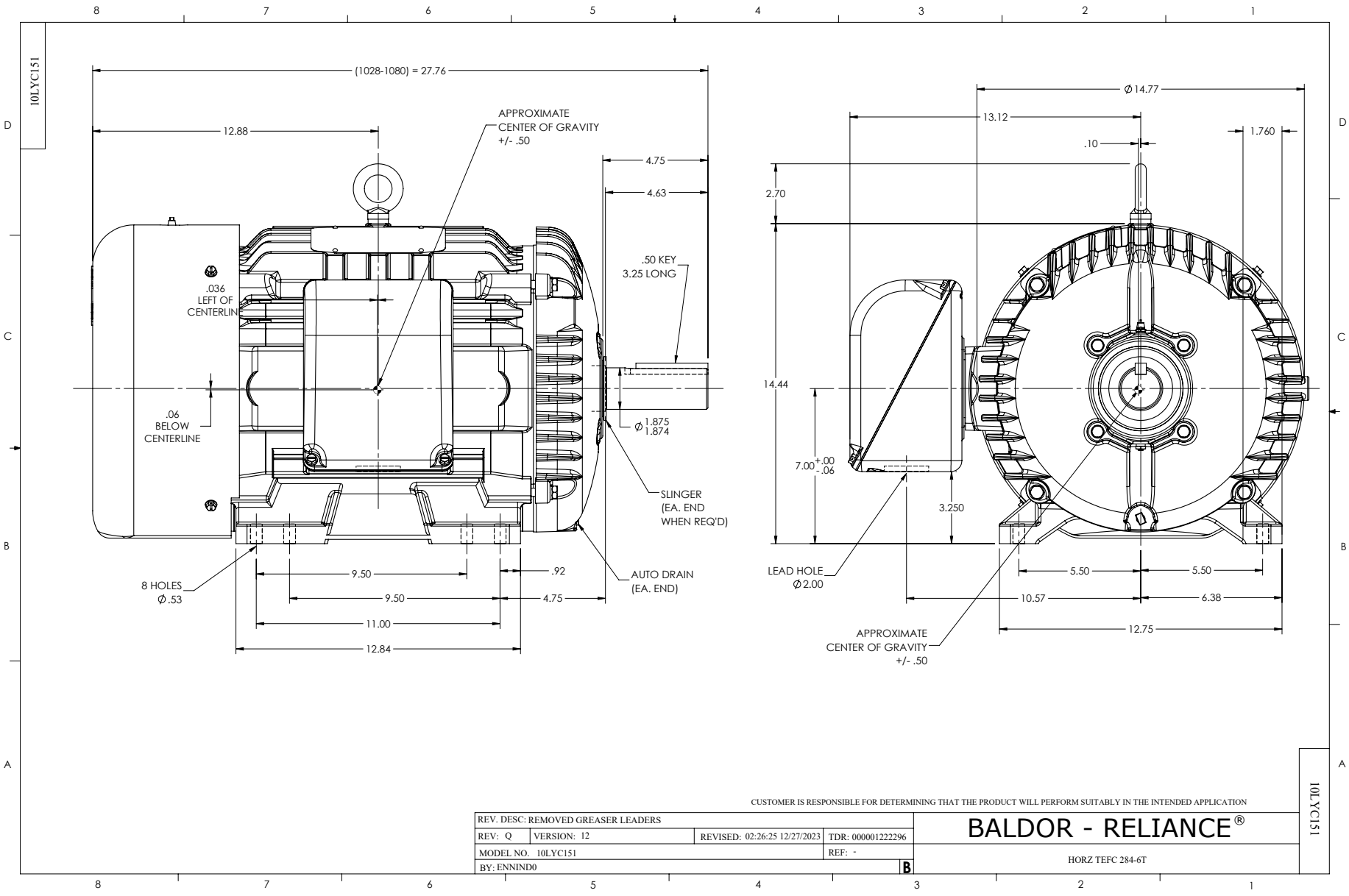
WINDING # 10WGY760

30 HP 3 PH 60 HZ 1770 RPM 200 V 1056M

Typical performance - not guaranteed values.

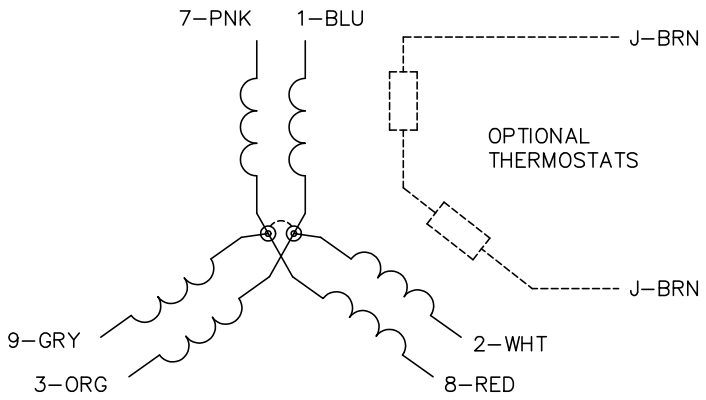
TORQUES(LB-FT): PO=279 PU=133 LR=151 LRA=560



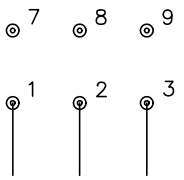

10LYC151
(1028-1080) = 27.76
12.88
APPROXIMATE
CENTER OF GRAVITY
+/- .50
4.75
4.63
.50 KEY
3.25 LONG
.036
LEFT OF
CENTERLIN
.06
BELOW
CENTERLINE
Ø 1.875
1.874
SLINGER
(EA. END
WHEN REQ'D)
AUTO DRAIN
(EA. END)
8 HOLES
Ø .53
9.50
.92
9.50
4.75
11.00
12.84
Ø 14.77
13.12
.10
1.760
2.70
14.44
7.00 +.00 -.06
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

CD0695

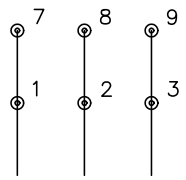
TYPICAL WYE–CONNECTED MOTOR



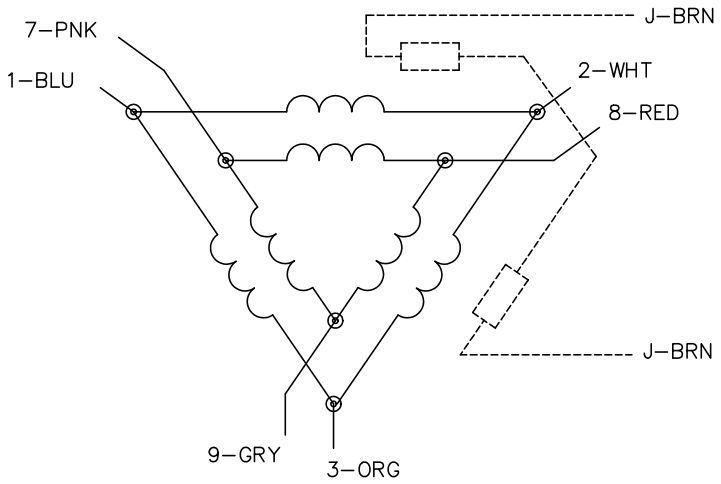
START CONNECTION



RUN CONNECTION



TYPICAL DELTA–CONNECTED MOTOR



NOTES:

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

CD0695

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: C	BY: JLP	REVISED: 01/21/99 3:19	TDR: 0171435
CD0695		FILE: AAA00005151	MDL: –
		MTL: –	3PH, SV, 6 LEADS, PART WINDING START