

BALDOR • RELIANCE

Customer information packet

EM4104T-5

30HP, 1770RPM, 3PH, 60HZ, 286T, 1056M, TEFC, F1

Class - None

Division - Not Applicable

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	575.0 V @ 60 HZ
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	29.000 A @ 575.0 V
Design Code	A
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	29.0 a

Part detail

Revision	AA
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGY759
Layout	10LYC151
Eff. date	06-27-2024
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	04-29-2010

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 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
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	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3443L

CAT.NO.	EM4104T-5	CUST. P/N				ENCL	TEFC
SPEC.	10C151Y759G1	CC	010A	FRAME	286T	SER.NO.	
HP	30	CLASS		F	HZ	60	
R.P.M.	1770	PH	3	DES	A		
VOLTS	575	CODE		G	ODE BRG	6309	DE BRG 6311
AMPS	29						
RATING	40C AMB-CONT	NEMA NOM. EFF.			93.6	GREASE	POLYREX EM
P.F.	83	SER.F.	1.15	VPWM INVERTER READY			
	SFA 32.9						
HTR-VOLTS		HTR-AMPS		HTR-WATTS			

AC Induction Motor Performance Data

Record # 30991

Typical performance - not guaranteed values

Winding: 10WGY759-R001		Type: 1056M		Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)	30	Full Load Torque	89.2 LB-FT		
Volts	575	Start Configuration	direct on line		
Full Load Amps	29	Breakdown Torque	255 LB-FT		
R.P.M.	1770	Pull-up Torque	120 LB-FT		
Hz	60	Locked-rotor Torque	136 LB-FT		
NEMA Design Code	B	Starting Current	177 A		
Service Factor (S.F.)	1.15	No-load Current	11.5 A		
NEMA Nom. Eff.	93.6	Line-line Res. @ 25°C	0.375 Ω		
Rating - Duty	40C	Temp. Rise @ Rated Load	58°C		
S.F. Amps	AMB-CONT	Temp. Rise @ S.F. Load	71°C		
		Locked-rotor Power Factor	32		
		Rotor inertia	4.45 LB-FT ²		

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	47	69	77	84	84	83	84
Efficiency	90.9	93.9	94.4	94	92.9	92.5	93.4
Speed	1794	1786	1780	1773	1764	1754	1768
Line amperes	13.3	17.6	23.4	28.5	35.9	43.6	32.9

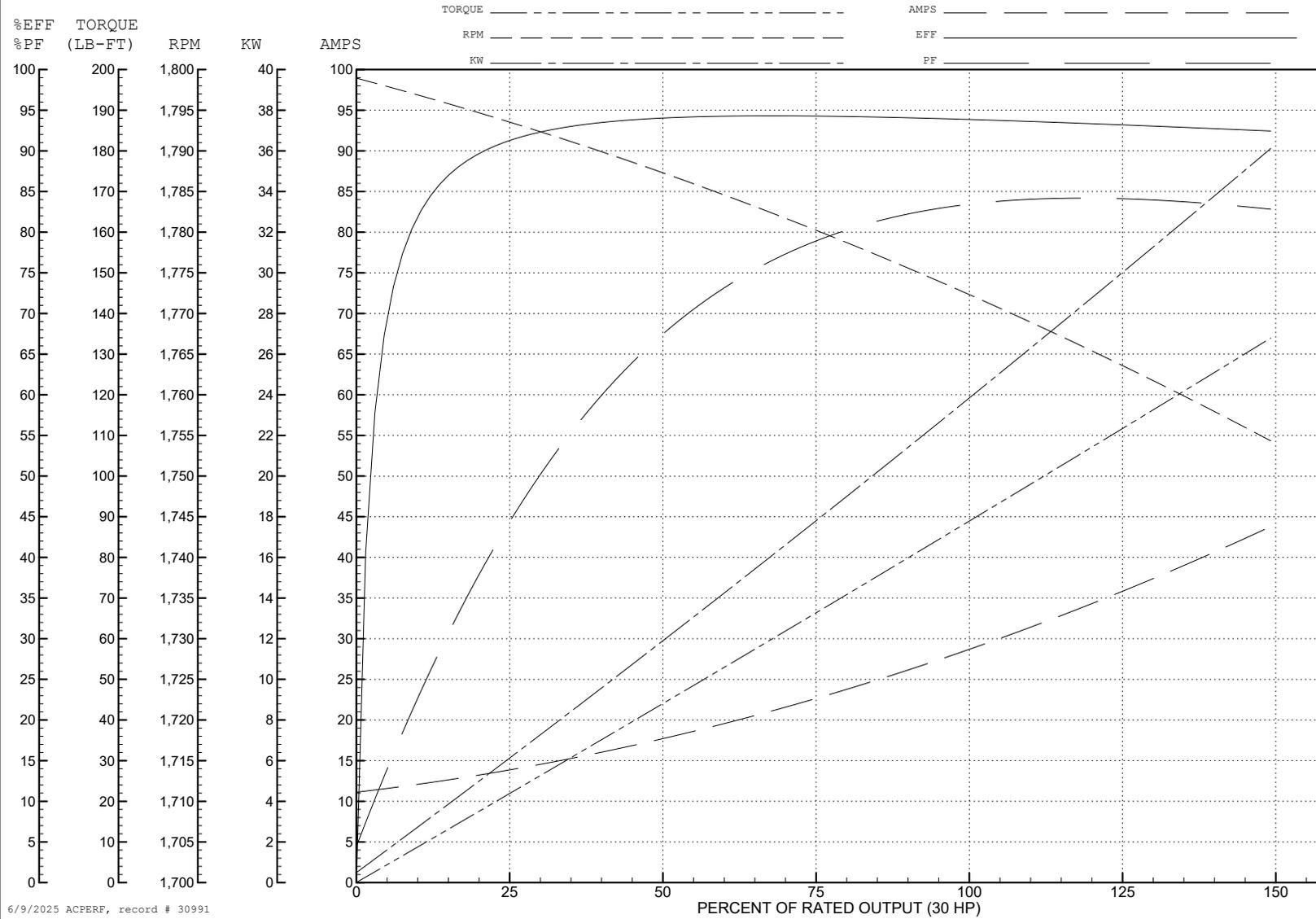
ABB Motors and Mechanical Inc.

WINDING # 10WGY759

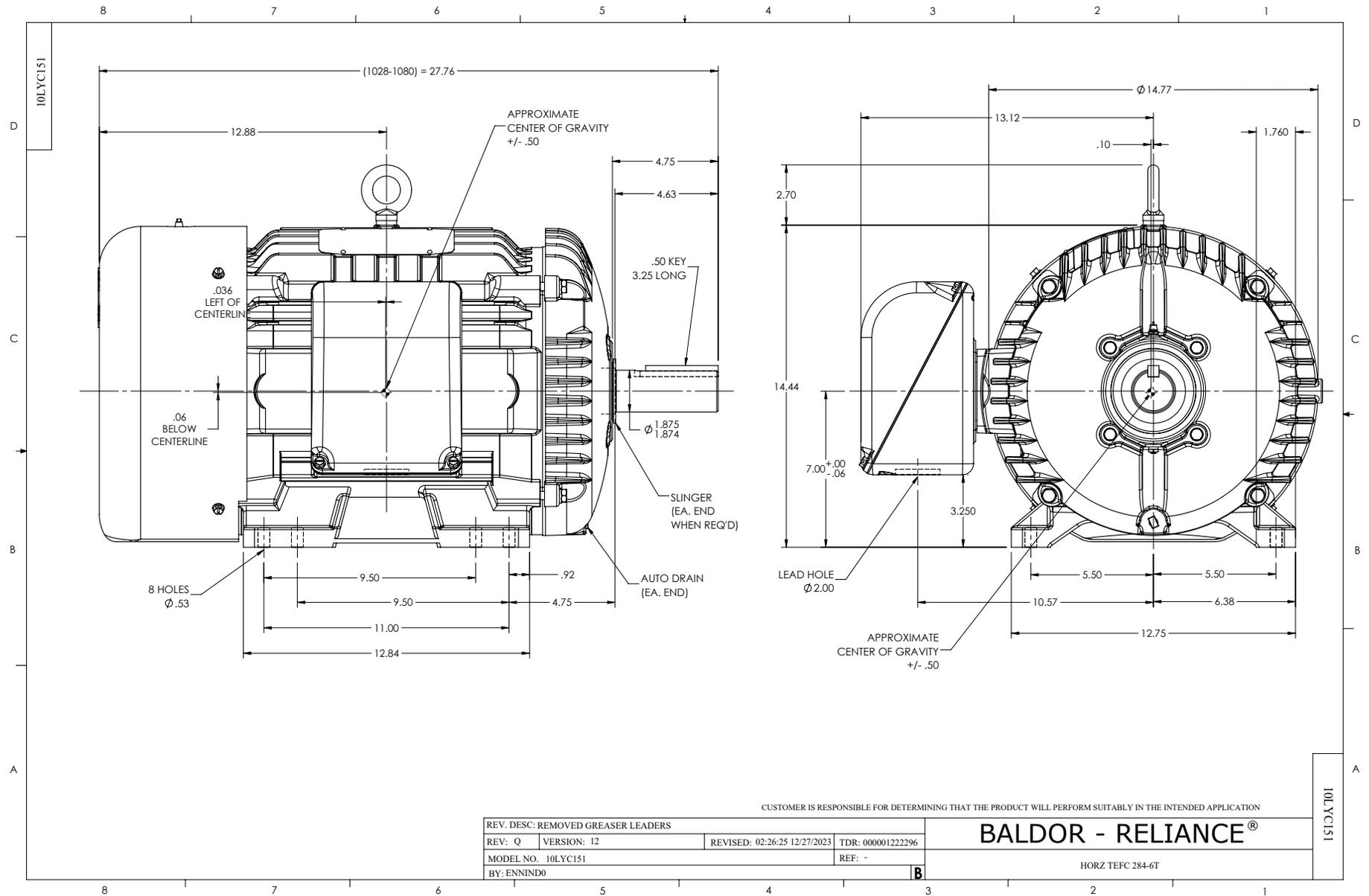
Typical performance - not guaranteed values.

30 HP 3 PH 60 HZ 1770 RPM 575 V 1056M

TORQUES (LB-FT): PO=255 PU=120 LR=136 LRA=177



6/9/2025 ACPERF, record # 30991



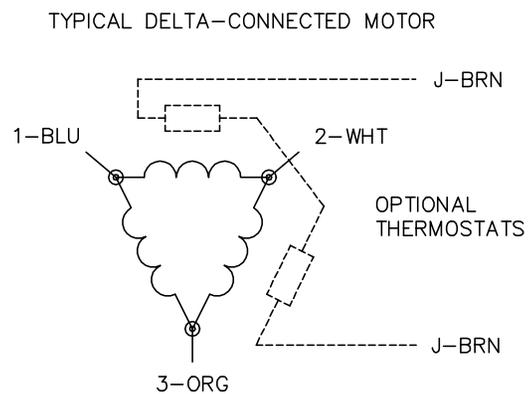
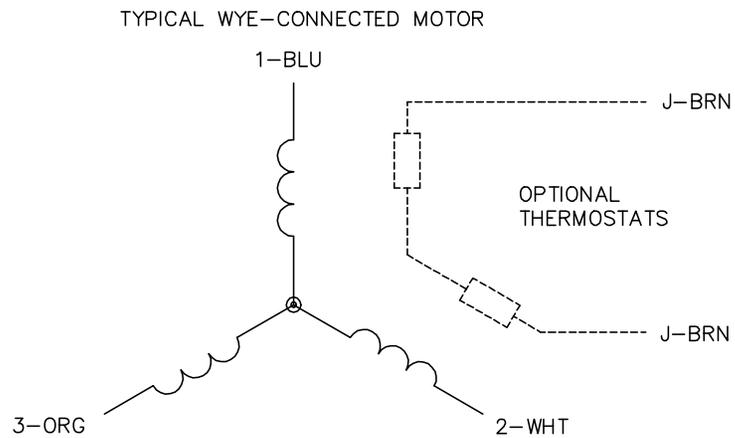
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

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

CD0006



NOTES:

1. THREE LEAD MOTOR MAY BE EITHER 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 BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIRO
MTL: -		© □

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1