BALDOR • RELIANCE

Customer information packet

EM4104T-58

30HP, 1470RPM, 3PH, 50HZ, 286T, 1064M, TEFC, F1
Class - None
Division - Not Applicable

6/9/2025 4:11:29 AM

Specifications

Enclosure	TEFC
Frame	286T
Frame Material	Iron
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	400.0 V @ 50 HZ
Agency Approvals	CE
	CSA
	CURUS
	IE3
	UKCA
	UR
	WEEE
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	43.000 A @ 400.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part detail

Revision	M
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGZ706
Layout	10LYC151
Eff. date	12-16-2024
CD Diagram	CD0382
Poles	04
Leads	6#8
Proprietary	False
Created date	11-10-2017

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	43.0 a
Insulation Class	F
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 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	81
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS 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	1470 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3444L									
CAT NO	EM4104T-58								
SPEC.	10C151Z706G1								
HP	30/22KW				**PH**	3			
VOLTS	400								
AMP	43 245 KG								
RPM	1470 1/MIN IC411								
FRAME	286T	**HZ**	50			**I.P.**	44		
SER.F.	1.15	**CODE**	H	**DES**	A	**CL**	F		
NOM.EFF.	93								
PF	81			**USABLE AT 208V**		N/A			
RATING	40C AMB-CONT				**CC**				
DE BRG	6311		**ODE**	6309					
ENCL	TEFC	**SN**							
VPWM INVERTER READY									
CT5-50(10:1)VT2.5-50(20:1									
BLANK	IE3-93.6(75)92.8(50%)								

AC Induction Motor Performance Data
Record # 68540
Typical performance - not guaranteed values

Winding: 10WGZ706-R001	**Type:** 1064M	**Enclosure:** TEFC

Nameplate Data			**400 V, 50 Hz: Single Voltage Motor**	
Rated Output (HP)		30	**Full Load Torque**	107.2 LB-FT
Volts		400	**Start Configuration**	direct on line
Full Load Amps		43	**Breakdown Torque**	349 LB-FT
R.P.M.		1470	**Pull-up Torque**	154 LB-FT
Hz	50 **Phase**	3	**Locked-rotor Torque**	180 LB-FT
NEMA Design Code	A **KVA Code**	H	**Starting Current**	292 A
Service Factor (S.F.)		1.15	**No-load Current**	19.1 A
NEMA Nom. Eff.	93 **Power Factor**	81	**Line-line Res. @ 25ºC**	0.18648 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	69°C
S.F. Amps			**Temp. Rise @ S.F. Load**	78°C
			Locked-rotor Power Factor	34.7

Load Characteristics 400 V, 50 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	64	76	81	83	84	82
Efficiency	89	92.8	93.6	93.4	93	92.8	93.2
Speed	1493.1	1487.1	1480.8	1474.1	1469.7	1466.8	1471
Line amperes	21.7	27.1	34.3	42.6	48.2	51.9	46

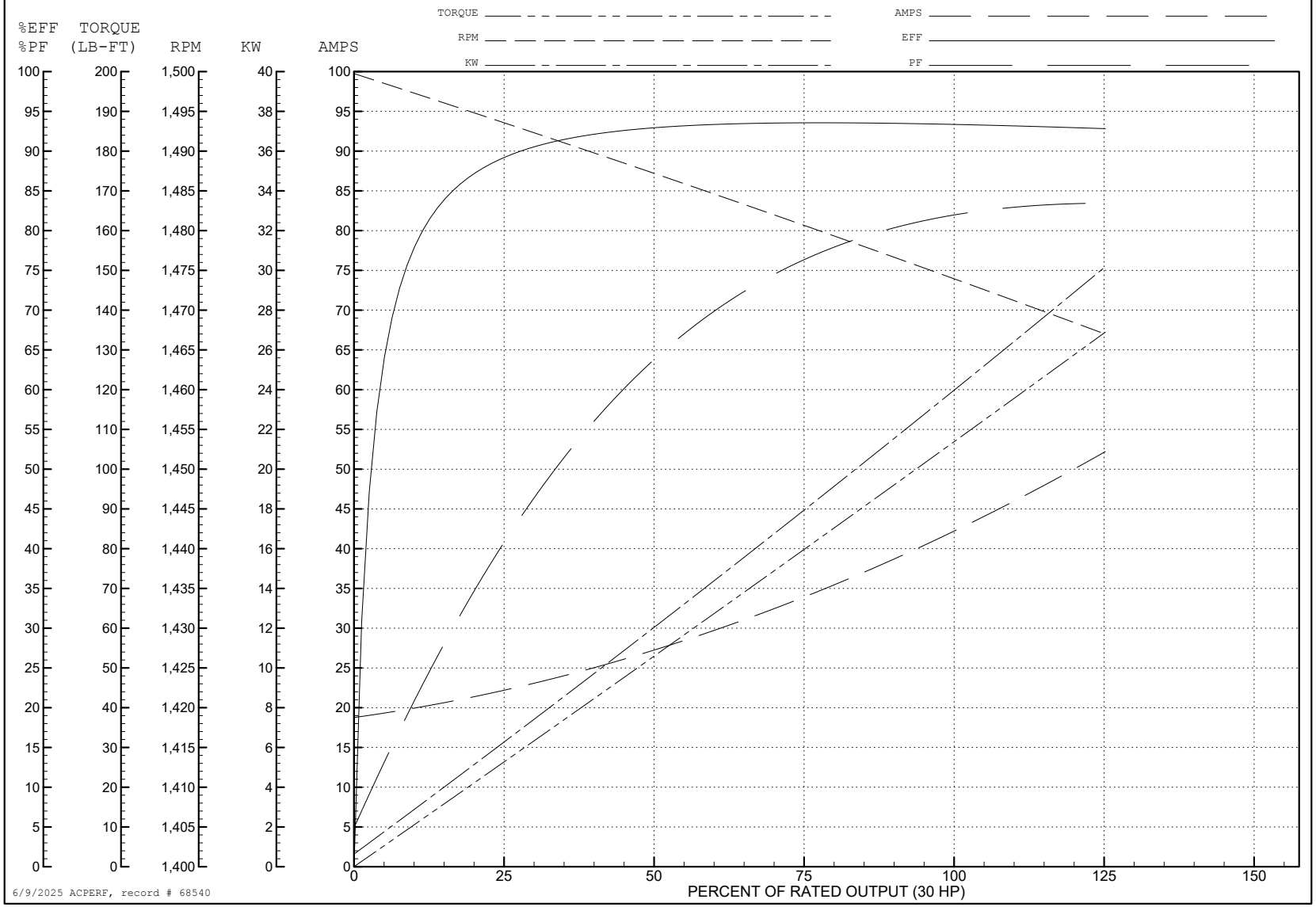
ABB Motors and Mechanical Inc.

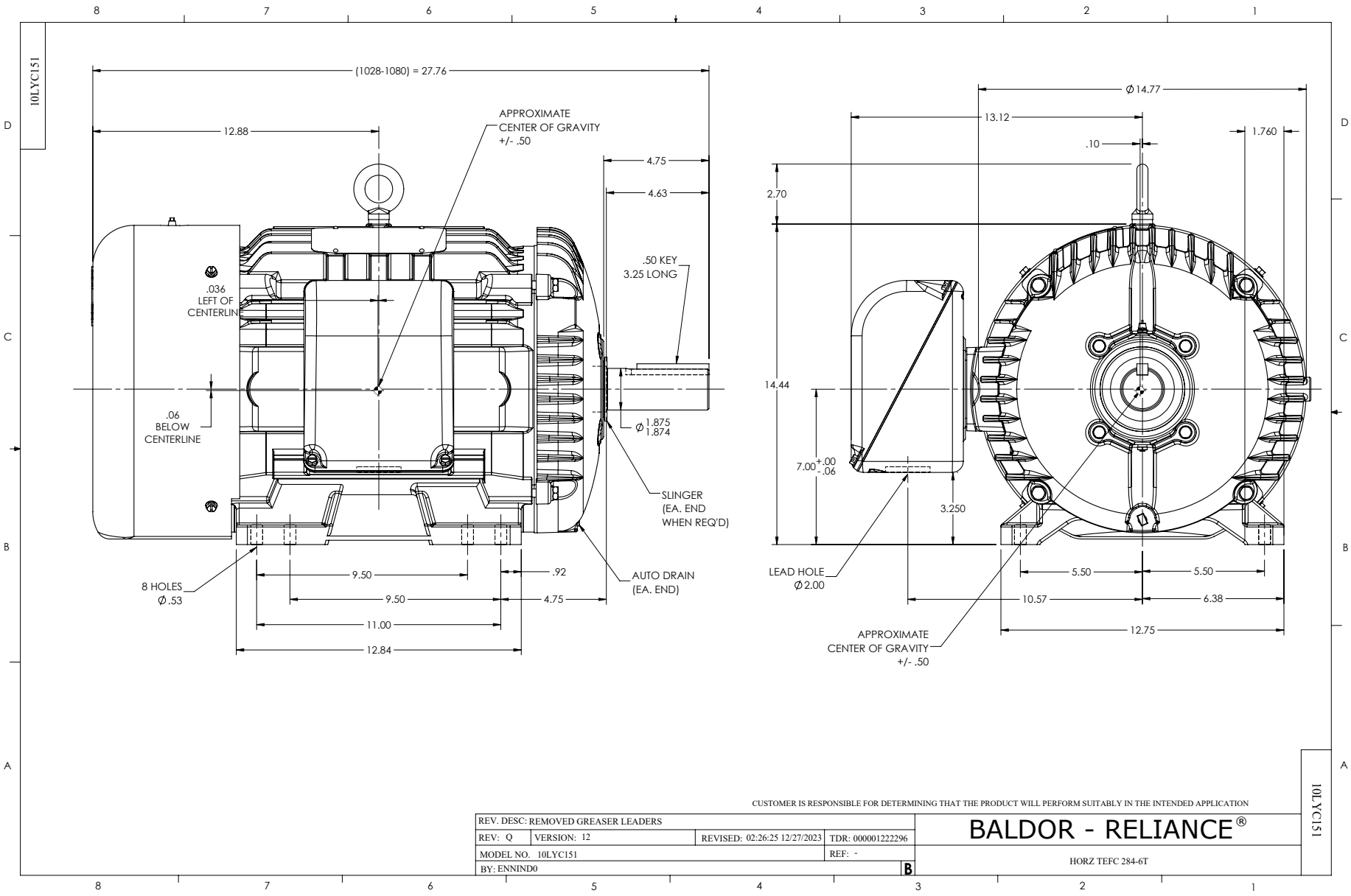
WINDING # 10WGZ706

30 HP 3 PH 50 HZ 1470 RPM 400 V 1064M

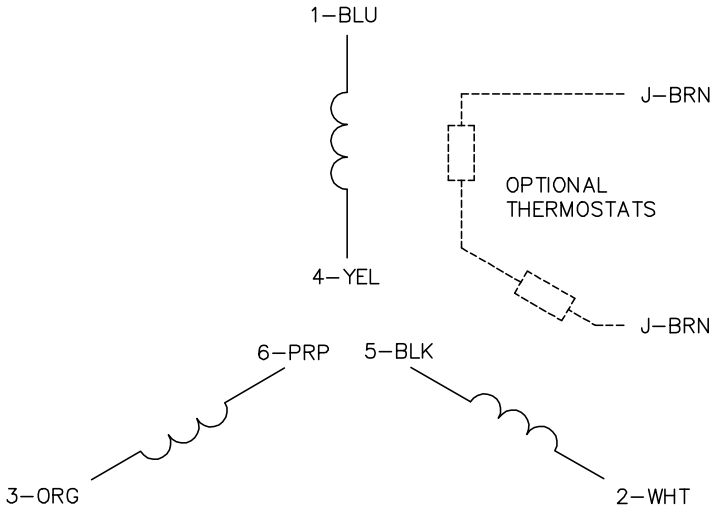
Typical performance - not guaranteed values.

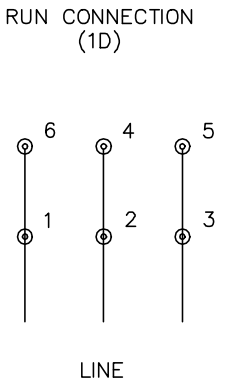
TORQUES(LB-FT): PO=349 PU=154 LR=180 LRA=292

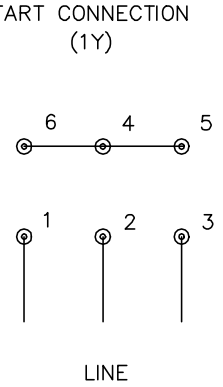



10LYC151
(1028-1080) = 27.76
12.88
APPROXIMATE
CENTER OF GRAVITY
+/- .50
4.75
4.63
.50 KEY
3.25 LONG
.036
LEFT OF
CENTERLIN
.06
BELOW
CENTERLINE
Ø 1.875
1.874
SLINGER
(EA. END
WHEN REQ'D)
8 HOLES
Ø .53
9.50
.92
9.50
4.75
11.00
12.84
AUTO DRAIN
(EA. END)
Ø 14.77
13.12
.10
1.760
2.70
14.44
7.00 +.00 -.06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

CD0382







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 BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.
5. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

SH 1 of 1