ABB BALDOR RELIANCE

Customer information packet

EM4103T-5

25HP, 1770RPM, 3PH, 60HZ, 284T, 1056M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	284T
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM (OLD LOGO) CURUSEEV NEMA PREMIUM
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	24.000 A @ 575.0 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	24.0 a
Insulation Class	F

Part Detail

Revision	R
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGZ620
Layout	10LYC151
Eff. date	01-07-2026
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	01-25-2017

Inverter Code	Inverter Ready
KVA Code	F
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	85
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.	EM4103T-5			**CUST. P/N**						**ENCL**	TEFC
SPEC.	10C151Z620G1	**CC**	010A	**FRAME**	284T		**SER.NO.**				
HP	25		**CLASS**	F	**HZ**	60					
R.P.M.	1770	**PH**	3	**DES**	B						
VOLTS	575		**CODE**	F		**ODE BRG**	6309	**DE BRG**	6311		
AMPS	24										
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	93.6		**GREASE**	POLYREX EM			
P.F.	85	**SER.F.**	1.15	**VPWM INVERTER READY**							
	SFA 27										
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**							

AC Induction Motor Performance Data
Record # 62101
Typical performance - not guaranteed values

Winding: 10WGZ620-R002	**Type:** 1056M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			25	**Full Load Torque**	74.36 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			24	**Breakdown Torque**	196 LB-FT
R.P.M.			1770	**Pull-up Torque**	90.75 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	114 LB-FT
NEMA Design Code	B	**KVA Code**	F	**Starting Current**	137 A
Service Factor (S.F.)			1.15	**No-load Current**	8.24 A
NEMA Nom. Eff.	93.6	**Power Factor**	85	**Line-line Res. @ 25ºC**	0.463 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	54°C
S.F. Amps				**Temp. Rise @ S.F. Load**	67°C
				Locked-rotor Power Factor	30.4
				Rotor inertia	4.46 LB-FT2

Load Characteristics 575 V, 60 Hz, 25 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	73	82	85	86	86	86
Efficiency	91	93.8	94.1	93.7	92.8	92.1	93.1
Speed	1793	1785	1779	1771	1762	1751	1766
Line amperes	9.93	13.55	18.28	23.59	29.19	35.78	27

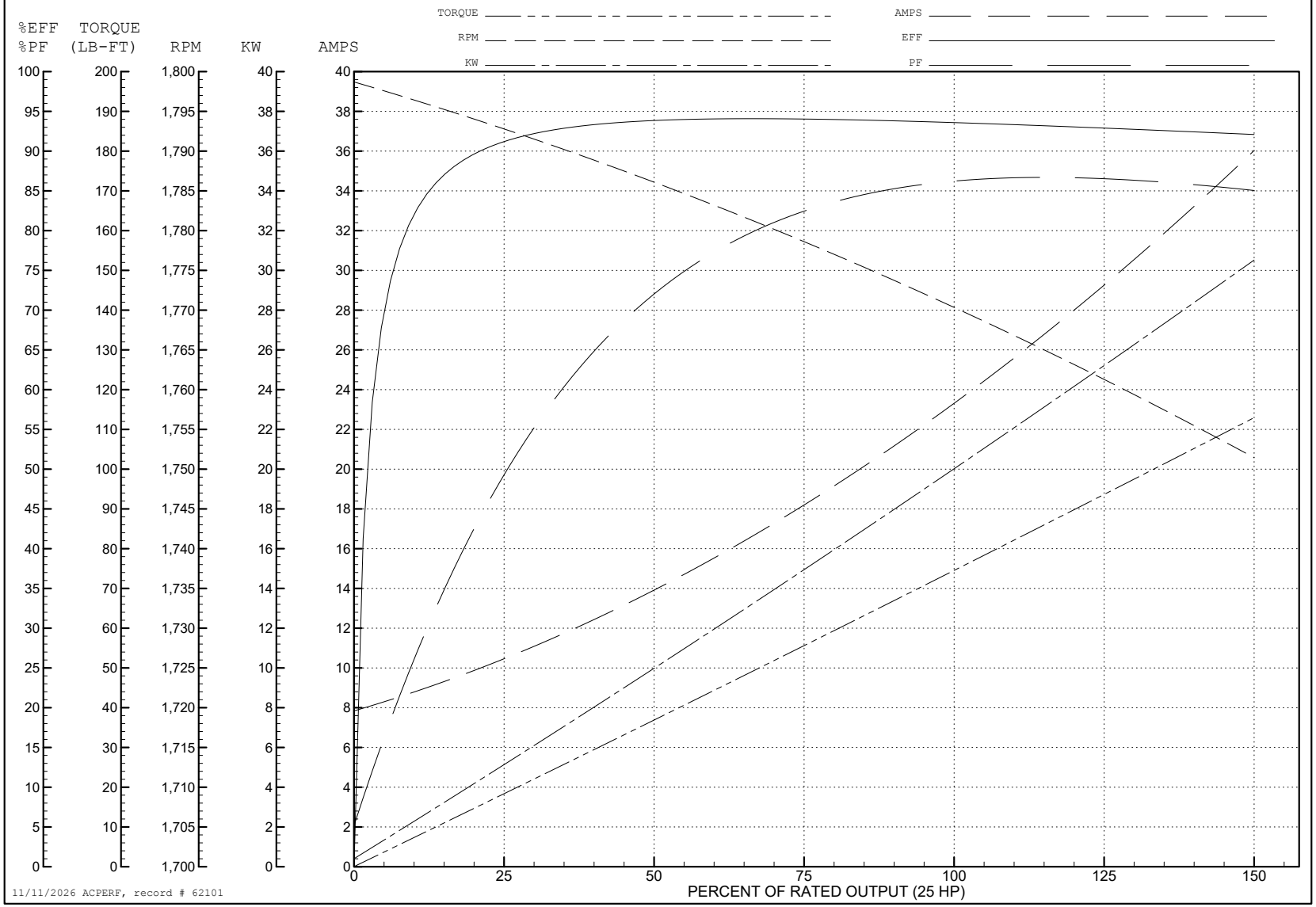
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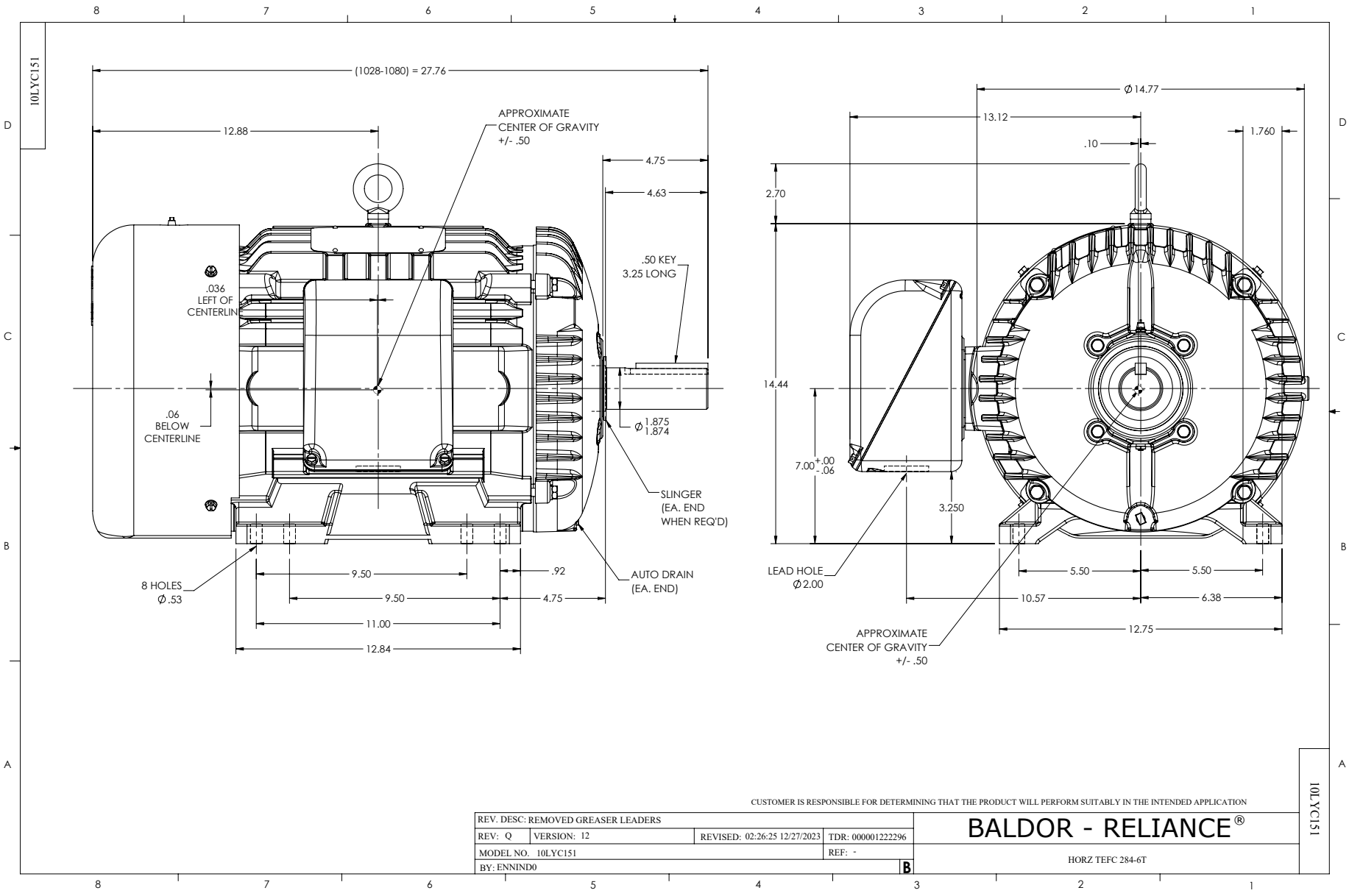
WINDING # 10WGZ620

Typical performance - not guaranteed values.

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

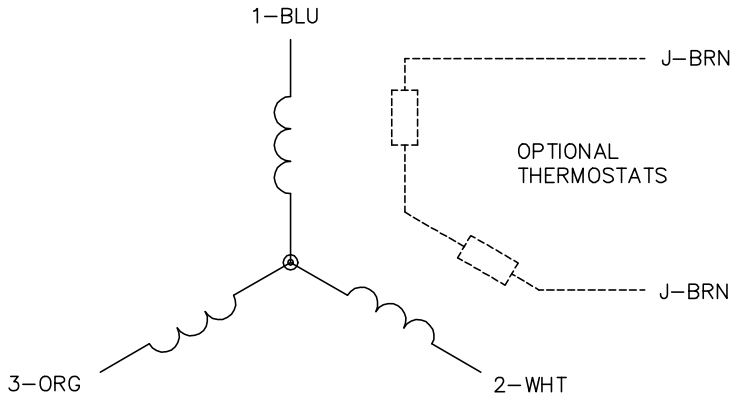
TORQUES(LB-FT): PO=196 PU=90.75 LR=114 LRA=137

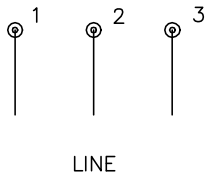



10LYC151
(1028-1080) = 27.76
12.88
APPROXIMATE
CENTER OF GRAVITY
+/- .50
4.75
4.63
.50 KEY
3.25 LONG
.036
LEFT OF
CENTERLIN
.06
BELOW
CENTERLINE
Ø 1.875
1.874
SLINGER
(EA. END
WHEN REQ'D)
AUTO DRAIN
(EA. END)
8 HOLES
Ø .53
9.50
.92
9.50
4.75
11.00
12.84
Ø 14.77
13.12
.10
1.760
2.70
14.44
7.00 +.00 -.06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

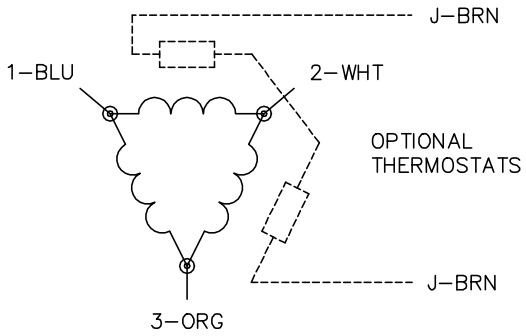
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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