BALDOR • RELIANCE

Customer information packet

GNEM4102T

20HP//15KW, 1180//980RPM, 3PH, 60//50HZ, 286
Class - None
Division - Not Applicable

12/22/2025 2:39:44 PM

Specifications

Enclosure	TEFC
Frame	286T
Frame Material	Iron
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
	15.000 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CE
	WEEE
	UKCA
	CURUSEEV
	IE3
	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	66.000 A @ 190.0 V
	58.000 A @ 230.0 V
	58.000 A @ 208.0 V
	33.000 A @ 380.0 V

Part detail

Revision	A
Type	AC
Mech. spec.	10C151
Base	
Status	PRD/A
Elec. spec.	10WGZ615
Layout	10LYC151
Eff. date	09-10-2025
CD Diagram	CD0180
Poles	06
Leads	9#10
Proprietary	False
Created date	09-20-2023

	29.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	29.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1064M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.76 IN
Power Factor	70
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 Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger

Speed	1180 rpm
	980 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

NP4304L									
CAT.NO.	GNEM4102T								
SPEC.	10C151Z615G1								
HP	20HP//15KW				**PH**	3			
VOLTS	208-230/460//190/380								
AMPS	58/29//66/33								
R.P.M. (1/MIN)	1180//980				**WT.**	205KG	**KG**		
FRAME	286T	**HZ**	60//50		**I.P.**	54			
SER.F.	1.15	**CODE**	K	**DES.**	A	**CLASS**	F		
NOM.EFF.	91.7//91.2	**% (100%)**							
P.F.	70	IC411, 10:1 VT							
RATING	40C AMB-S1 CONT			**CC**	010A				
DE	6311	**ODE**	6309						
ENCL	TEFC	**SN**							
	SFA 66/33//74/37								
	IE3-50HZ 90.9(75%), 89.6(50%)								
	IE3-60HZ 90.8(75%), 88.8(50%)								

AC Induction Motor Performance Data
Record # 101016
Typical performance - not guaranteed values

Winding: 10WGZ615-R003	**Type:** 1064M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	89.83 LB-FT
Volts			208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			58/29//66/33	**Breakdown Torque**	343 LB-FT
R.P.M.			1180//980	**Pull-up Torque**	141 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	203 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	205 A
Service Factor (S.F.)			1.15	**No-load Current**	17.15 A
NEMA Nom. Eff.	91.7	**Power Factor**	70	**Line-line Res. @ 25ºC**	0.318 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps			66/33//74/37	**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	30.2
				Rotor inertia	7.84 lb-ft²

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	51	62	70	74	77	72
Efficiency	82.3	88.8	90.8	91.9	91.1	90.3	91.4
Speed	1195	1191	1186	1182	1176	1170	1178
Line amperes	18.2	21.05	24.99	29.44	34.71	40.68	32.6

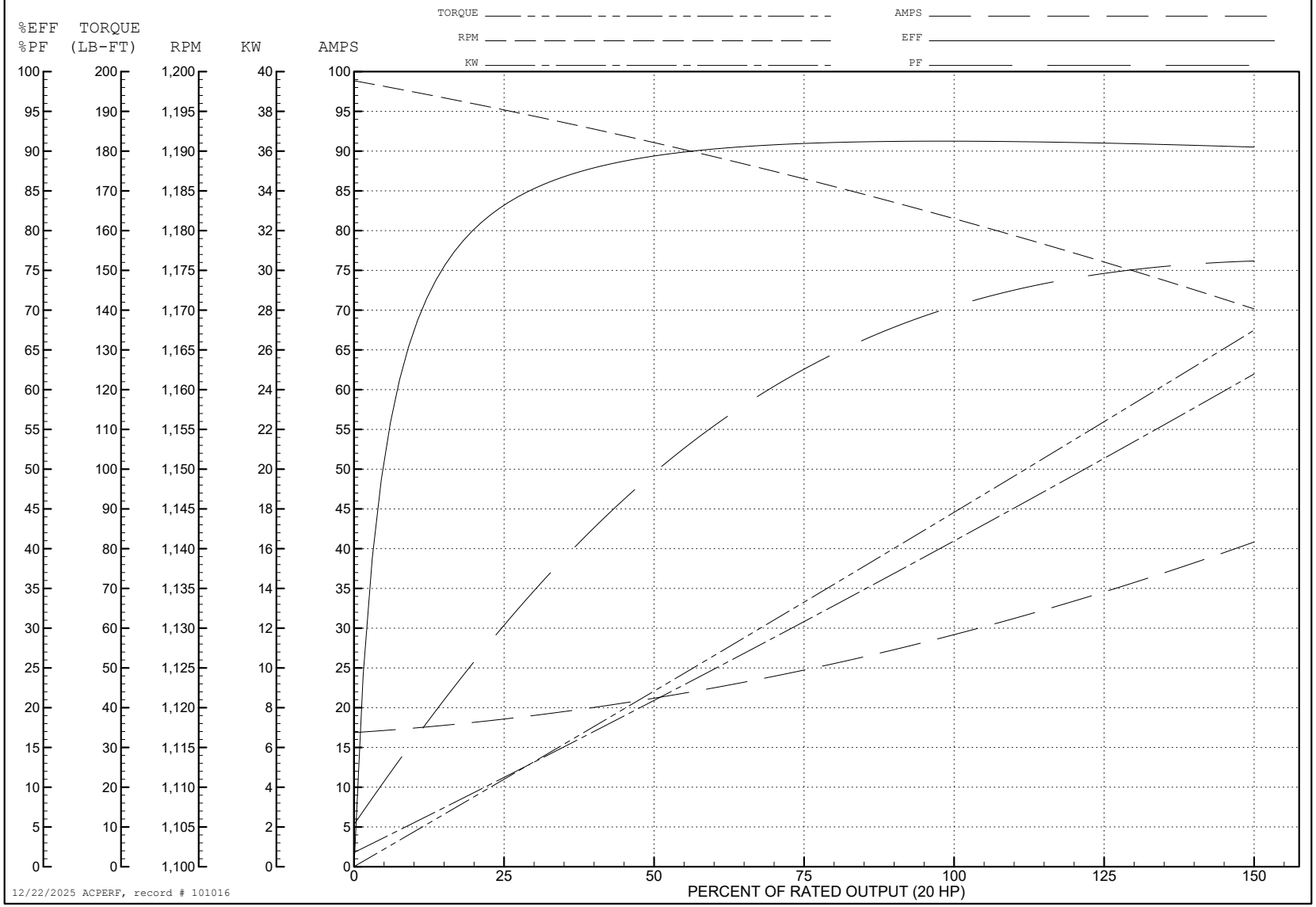
ABB Motors and Mechanical Inc.

WINDING # 10WGZ615

20 HP 3 PH 60 HZ 1182 RPM 460 V 1064M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=343 PU=141 LR=203 LRA=205



AC Induction Motor Performance Data
Record # 101017
Typical performance - not guaranteed values

Winding: 10WGZ615-R003	**Type:** 1064M	**Enclosure:** TEFC

Nameplate Data			**380 V, 50 Hz: High Voltage Connection**	
Rated Output (HP)		20	**Full Load Torque**	108 LB-FT
Volts		208-230/460//190/380	**Start Configuration**	direct on line
Full Load Amps		58/29//66/33	**Breakdown Torque**	330 LB-FT
R.P.M.		1180//980	**Pull-up Torque**	145 LB-FT
Hz	60//50 **Phase**	3	**Locked-rotor Torque**	209 LB-FT
NEMA Design Code	A **KVA Code**	K	**Starting Current**	199 A
Service Factor (S.F.)		1.15	**No-load Current**	16.67 A
NEMA Nom. Eff.	91.7 **Power Factor**	70	**Line-line Res. @ 25ºC**	0.318 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	76°C
S.F. Amps		66/33//74/37	**Temp. Rise @ S.F. Load**	96°C
			Locked-rotor Power Factor	33.4
			Rotor inertia	7.84 LB-FT2

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	37	58	69	76	78	80	77
Efficiency	84.2	89.6	90.9	91.4	90.1	88.9	90.6
Speed	995	990	985	980	974	967	976
Line amperes	18.05	21.84	27.12	33.11	40.17	48.17	37.3

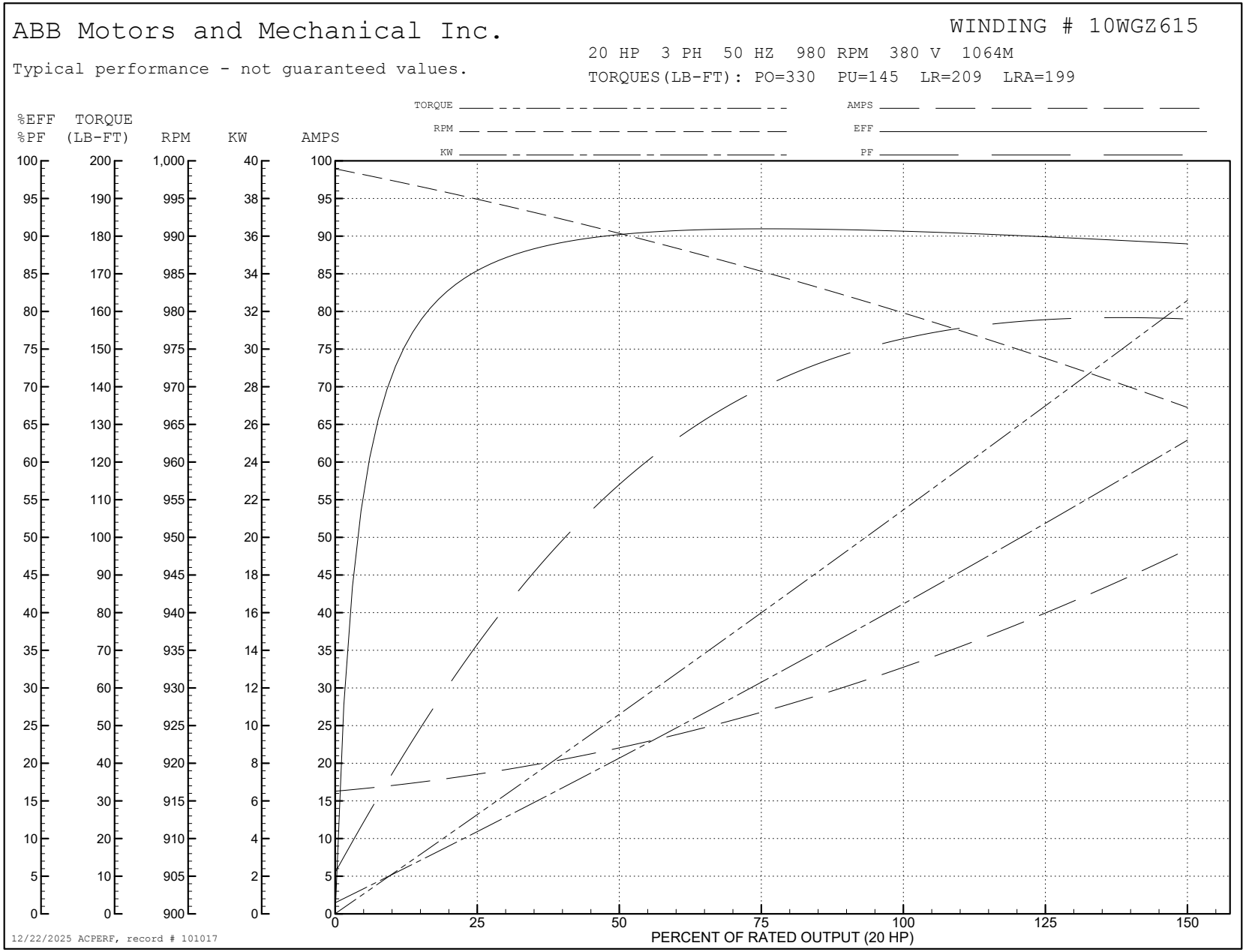
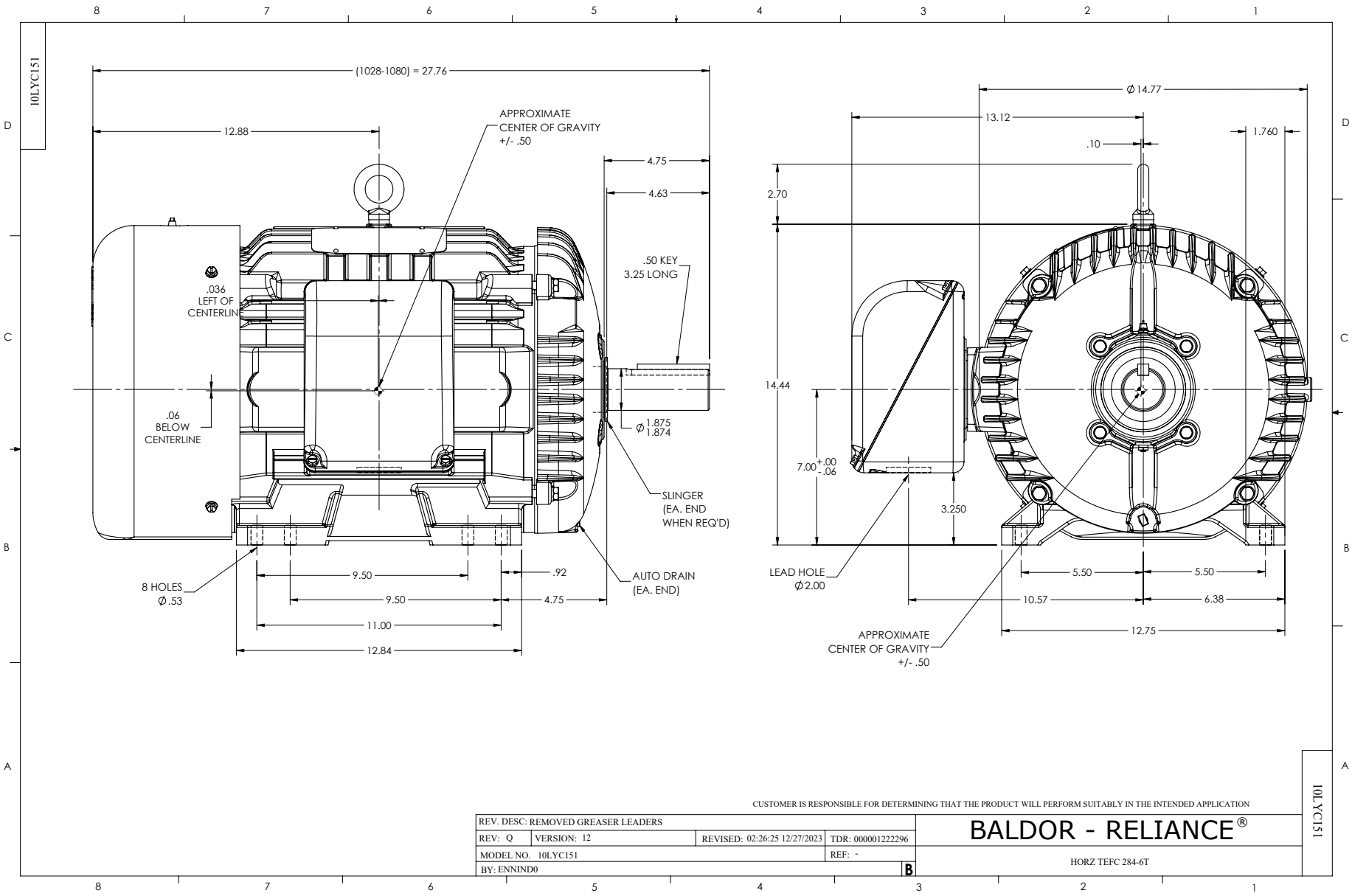
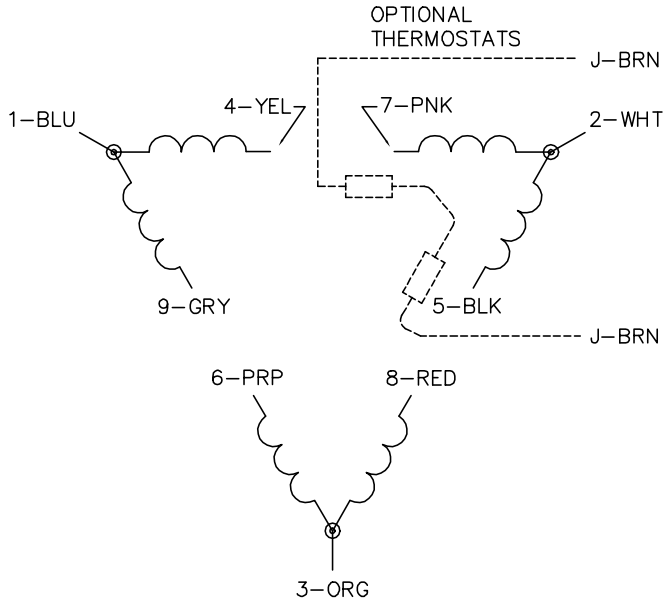
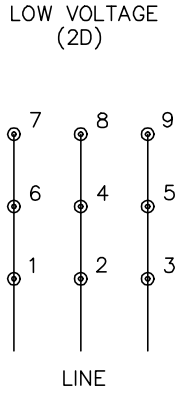


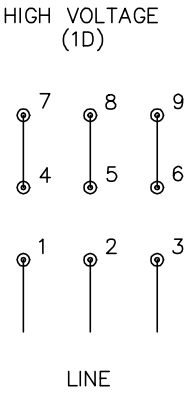
ABB Motors and Mechanical Inc.
WINDING # 10WGZ615
Typical performance - not guaranteed values.
20 HP 3 PH 50 HZ 980 RPM 380 V 1064M
TORQUES(LB-FT): PO=330 PU=145 LR=209 LRA=199
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (20 HP)
12/22/2025 ACPERF, record # 101017


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

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1