ABB BALDOR RELIANCE

Customer information packet

CECP84102T-4

20HP, 1175RPM, 3PH, 60HZ, 286TC, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	286TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	NEMA_PREMIUM
	UR
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
Constant Torque Speed Range	1.3
Current @ Voltage	26.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ429
Layout	10LY-000-170
Eff. date	09-26-2025
CD Diagram	CD0006
Poles	06
Leads	3#10
Proprietary	False
Created date	01-23-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	26.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.00 IN
Power Factor	78
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1175 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

NP4332

CAT.NO.	CECP84102T-4			**P/N**						**ENCLOSURE**	TEFC					
SPEC.	10-0000-0469			**CC**	010A	**FRAME**	286TC			**S/N**						
HP	20			**CLASS**	F	**HZ**	60	**ODE BRG**	6311	**DE BRG**	6311					
RPM	1175	**RPM MAX**	1800	**PH**	3	**DES**	B	**D.E. BRG.**	55BC03X30X							
VOLT	460			**KVA-CODE**	G			**O.D.E. BRG.**	55BC03X30X							
AMP	26			**MOTOR WEIGHT**	460	**GREASE**	POLYREX EM									
RATING	40C AMB-CONT			**MAX. KVAR**	7.7	**BLANK**										
NEMA-NOM-EFF	91.7	**# OF ROTOR BARS**	42	**SER.F.**	1.15	**IP**	56									
G.MIN.EFF	90.2	**# OF STATOR SLOTS**	54	**PF**	78	**INV.TYPE**	PWM									
TEMP CODE	T3C	**INVERTER-TEMP-CODE**	180													
TEMP =	160	**C HP FR**	60	**C HP TO**	90											
CT HZ FROM	1.3	**CT HZ TO**	60													
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**		**MAX. SPACE HEATER TEMP.**		**VT HZ FROM**	O	**VT HZ TO**	60					

AC Induction Motor Performance Data
Record # 53389
Typical performance - not guaranteed values

Winding: 10WGZ429-R001	**Type:** 1056M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			20	**Full Load Torque**	89.1 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			26	**Breakdown Torque**	236 LB-FT
R.P.M.			1175	**Pull-up Torque**	95.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	137 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	143 A
Service Factor (S.F.)			1.15	**No-load Current**	11.6 A
NEMA Nom. Eff.	91.7	**Power Factor**	78	**Line-line Res. @ 25ºC**	0.475 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps				**Temp. Rise @ S.F. Load**	78°C
				Locked-rotor Power Factor	31.8
				Rotor inertia	6.86 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	63	73	78	80	80	79
Efficiency	88.4	92.1	92.3	91.8	91	89	91.2
Speed	1195	1189	1184	1177	1170	1161	1173
Line amperes	13.1	16.4	20.7	26.1	32	39.1	29.6

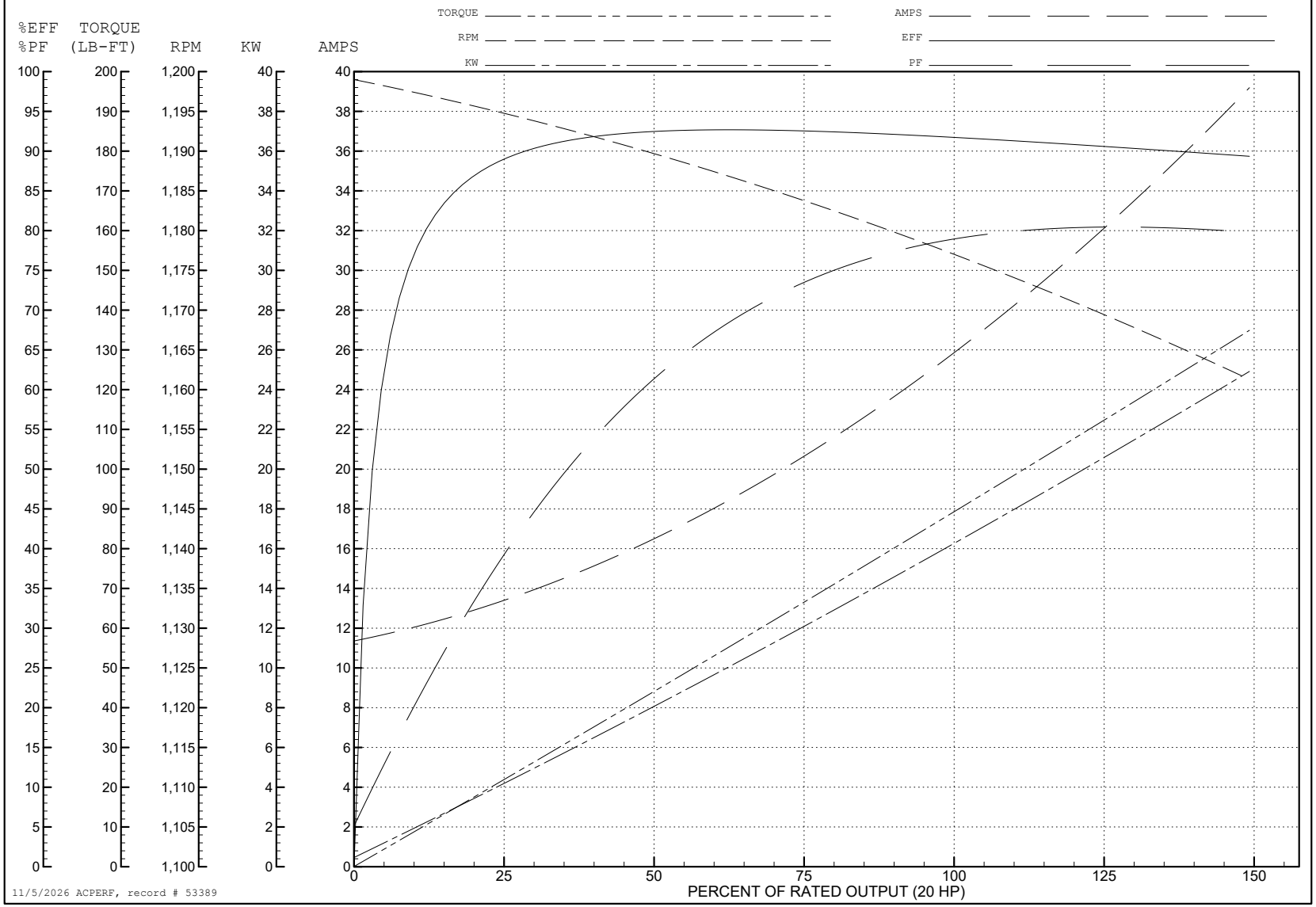
ABB Motors and Mechanical Inc.

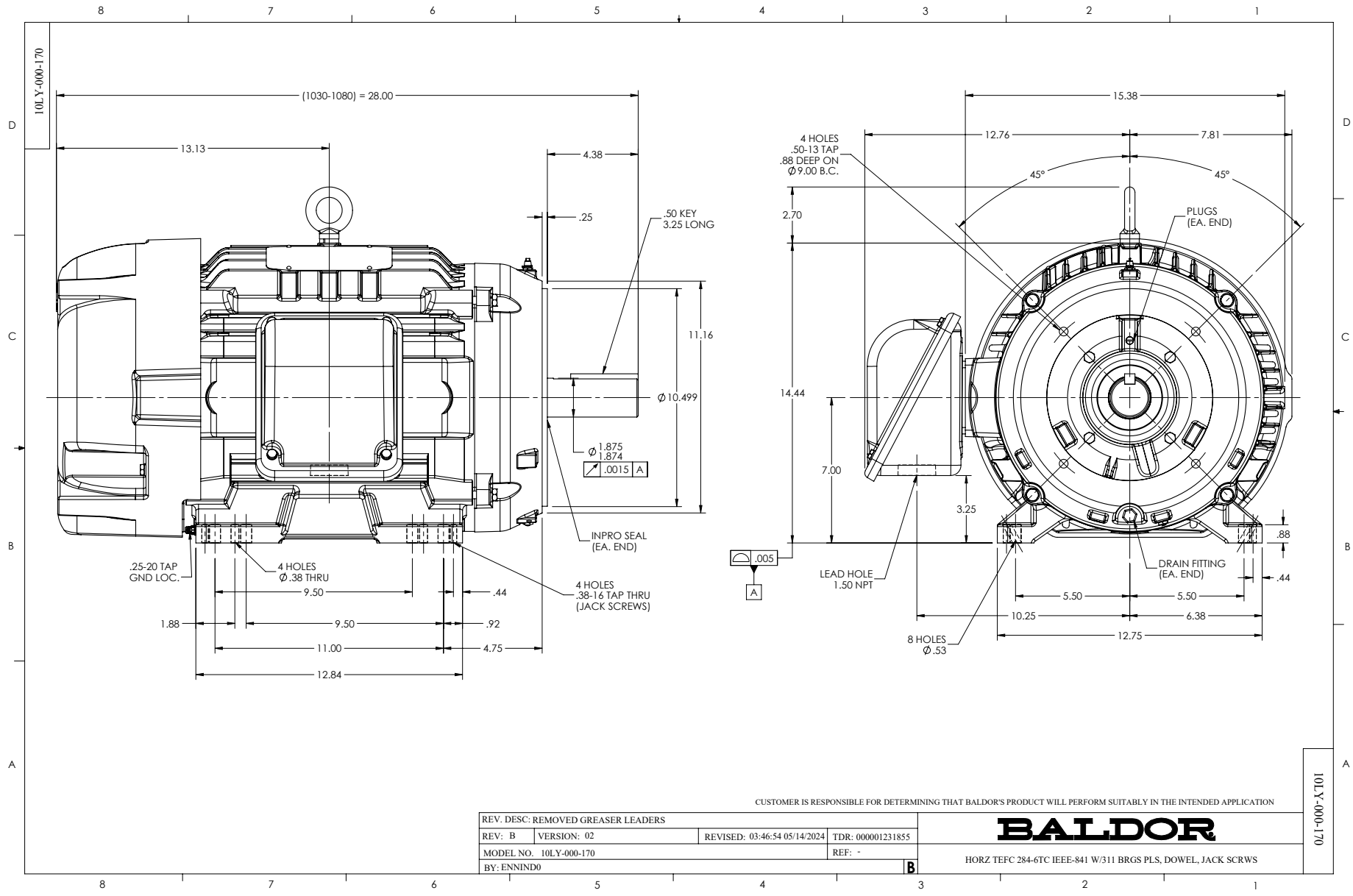
WINDING # 10WGZ429

20 HP 3 PH 60 HZ 1175 RPM 460 V 1056M

Typical performance - not guaranteed values.

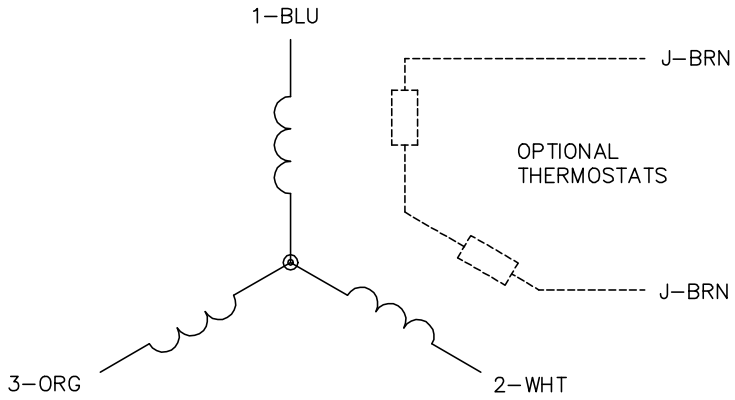
TORQUES(LB-FT): PO=236 PU=95.1 LR=137 LRA=143

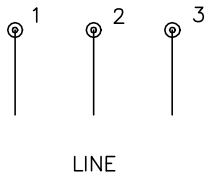



10LY-000-170
(1030-1080) = 28.00
13.13
4.38
.25
.50 KEY
3.25 LONG
11.16
Ø10.499
Ø 1.875
1.874
.0015 A
INPRO SEAL
(EA. END)
.25-20 TAP
GND LOC.
4 HOLES
Ø .38 THRU
9.50
.44
1.88
9.50
.92
11.00
4.75
12.84
4 HOLES
.38-16 TAP THRU
(JACK SCREWS)
15.38
12.76
7.81
4 HOLES
.50-13 TAP
.88 DEEP ON
Ø9.00 B.C.
45°
45°
2.70
PLUGS
(EA. END)
14.44
7.00
3.25
.88
.005
A
LEAD HOLE
1.50 NPT
DRAIN FITTING
(EA. END)
.44
5.50
5.50
10.25
6.38
12.75
8 HOLES
Ø .53
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVED GREASER LEADERS
REV: B
VERSION: 02
REVISED: 03:46:54 05/14/2024
TDR: 000001231855
MODEL NO. 10LY-000-170
REF: -
BY: ENNIND0
B
BALDOR
HORZ TEFC 284-6TC IEEE-841 W/311 BRGS PLS, DOWEL, JACK SCRWS
10LY-000-170

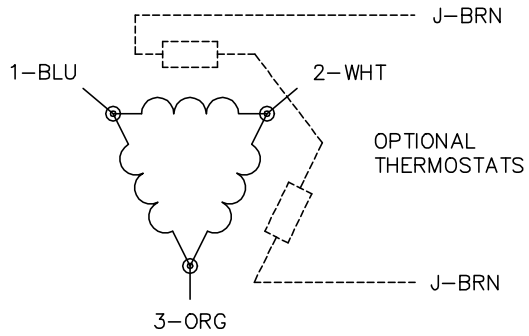
CD0006

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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