ABB BALDOR RELIANCE

Customer information packet

ECR9156T

15HP, 1175RPM, 3PH, 60HZ, 284T, 1068M, 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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	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	6
Current @ Voltage	19.400 A @ 460.0 V
	38.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features

Part Detail

Revision	R
Type	AC
Mech. spec.	10J907
Base	
Status	PRD/A
Elec. spec.	10WGZ350
Layout	10LYJ907
Eff. date	08-01-2023
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	01-08-2015

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	19.4 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1068M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.00 IN
Power Factor	78
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
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	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

NP3293													
CAT.NO.	ECR9156T		**P/N**				**ENCLOSURE**	TEFC					
SPEC.	10J907Z350G1	**CC**	010A	**FRAME**	284T		**S/N**						
HP	15	**CLASS**	F	**HZ**	60	**DES**	A						
RPM	1175	**RPM MAX**	1800	**PH**	3	**KVA-CODE**	H						
VOLT	230/460			**I.P.**	55								
AMP	38.8/19.4		**SER.F.**	1.25	**PF**	78	**ODE BRG**	6311	**DE BRG**	6312			
RATING	40C AMB-CONT		**NEMA-NOM-EFF**	91.7	**GREASE**	POLYREX EM							
HTR-VOLTS	**HTR-AMPS**		**HTR-WATTS**		**INV.TYPE**								
	SFA 48/24												
			C HP FR	60	**C HP TO**	90							
			CT HZ FROM	6	**CT HZ TO**	60							
			MOTOR WEIGHT	491	**VT HZ FROM**	6	**VT HZ TO**	60					

AC Induction Motor Performance Data
Record # 48598
Typical performance - not guaranteed values

Winding: 10WGZ350-R001	**Type:** 1068M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		15	**Full Load Torque**	66.4 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		38.8/19.4	**Breakdown Torque**	183 LB-FT
R.P.M.		1175	**Pull-up Torque**	138 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	162 LB-FT
NEMA Design Code	A **KVA Code**	H	**Starting Current**	128 A
Service Factor (S.F.)		1.25	**No-load Current**	8.23 A
NEMA Nom. Eff.	91.7 **Power Factor**	78	**Line-line Res. @ 25ºC**	0.566 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	41°C
S.F. Amps		48/24	**Temp. Rise @ S.F. Load**	56°C
			Locked-rotor Power Factor	29.1
			Rotor inertia	8.33 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	64	74	78	80	80	81
Efficiency	87.3	91.5	92.4	92.3	91.2	90.5	90.9
Speed	1195	1191	1186	1182	1176	1170	1170
Line amperes	9.33	12	15.4	19.4	24	29	23.9

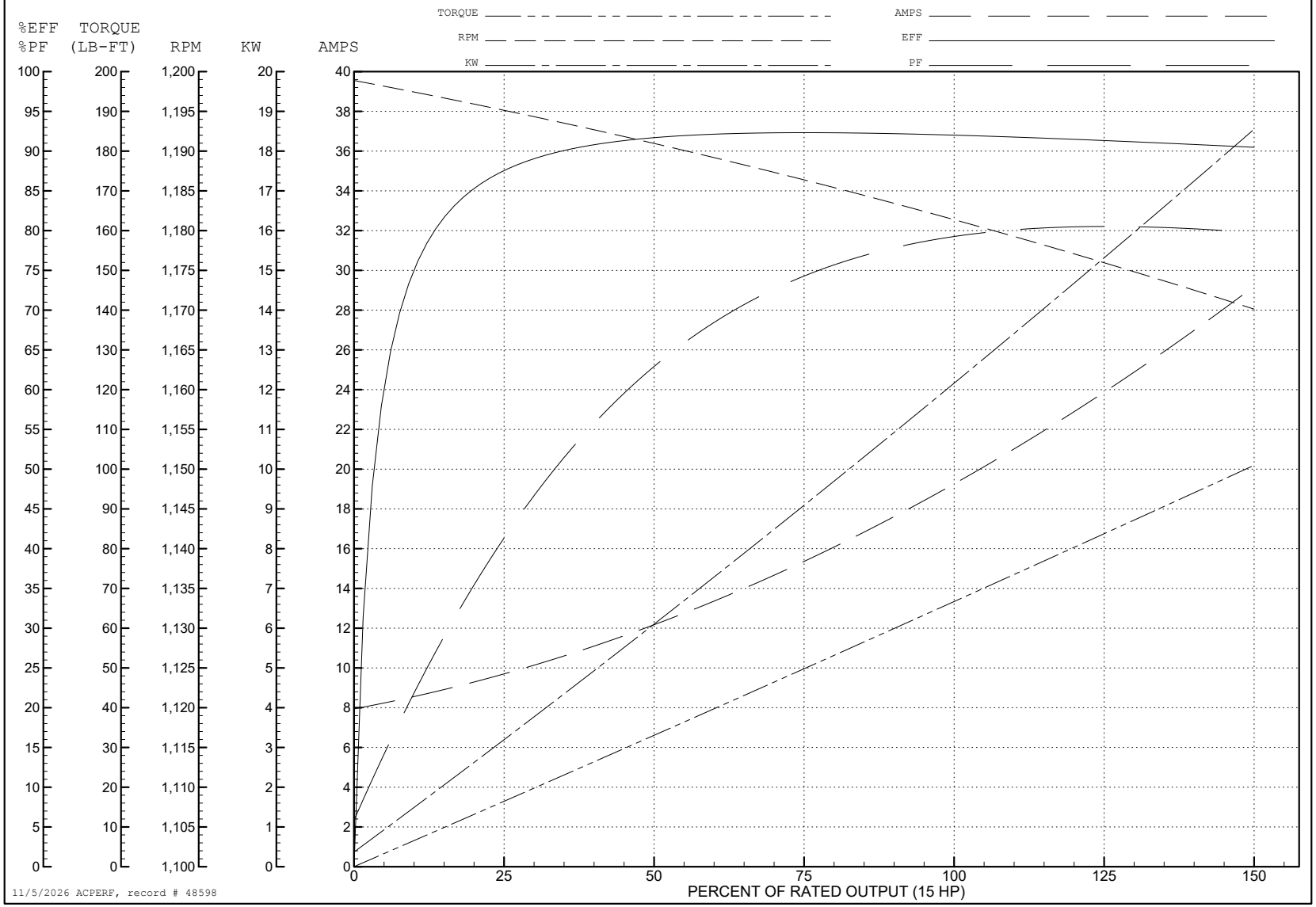
ABB Motors and Mechanical Inc.

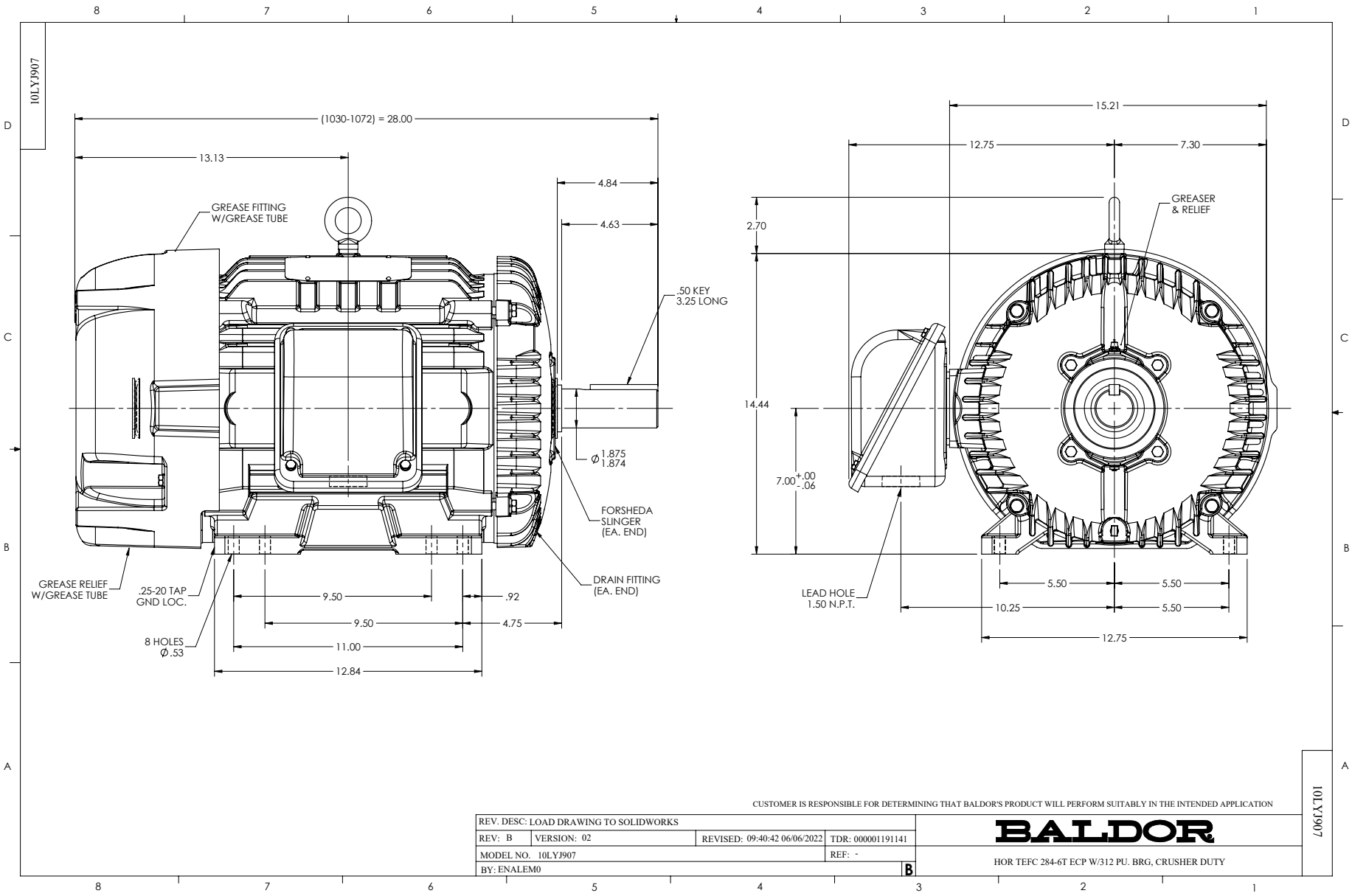
WINDING # 10WGZ350

15 HP 3 PH 60 HZ 1175 RPM 460 V 1068M

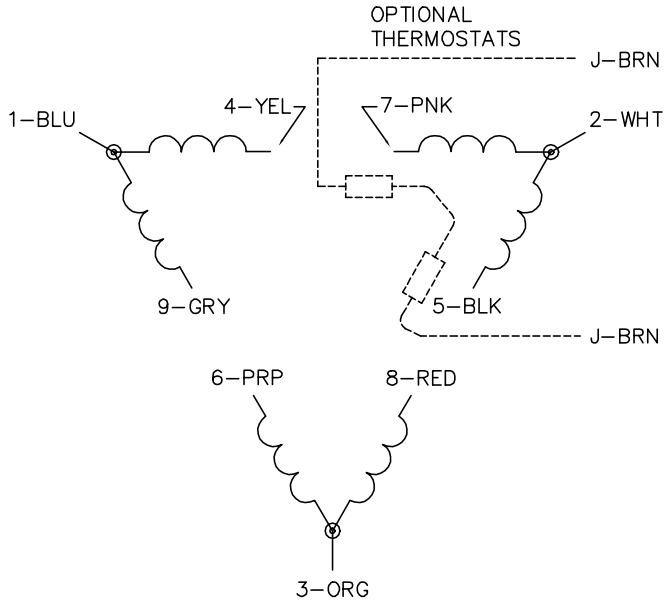
Typical performance - not guaranteed values.

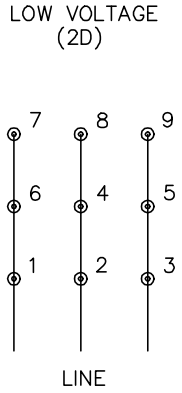
TORQUES(LB-FT): PO=183 PU=138 LR=162 LRA=128

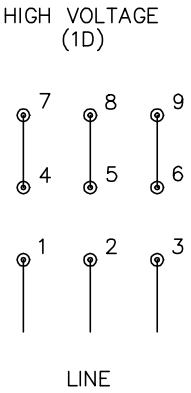



10LYJ907
(1030-1072) = 28.00
13.13
4.84
4.63
GREASE FITTING
W/GREASE TUBE
.50 KEY
3.25 LONG
Ø 1.875
1.874
FORSHEDA
SLINGER
(EA. END)
DRAIN FITTING
(EA. END)
GREASE RELIEF
W/GREASE TUBE
.25-20 TAP
GND LOC.
8 HOLES
Ø .53
9.50
.92
9.50
4.75
11.00
12.84
15.21
12.75
7.30
GREASER
& RELIEF
2.70
14.44
7.00 +.00 -.06
LEAD HOLE
1.50 N.P.T.
5.50
5.50
10.25
5.50
12.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: B
VERSION: 02
REVISED: 09:40:42 06/06/2022
TDR: 000001191141
MODEL NO. 10LYJ907
REF: -
BY: ENALEM0
B
BALDOR
HOR TEFC 284-6T ECP W/312 PU. BRG, CRUSHER DUTY
10LYJ907

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

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