ABB BALDOR RELIANCE

Customer information packet

CECR9304T

30HP, 1770RPM, 3PH, 60HZ, 286T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	286TC
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CCSA US
	NEMA_PREMIUM
	NEMA PREMIUM
	CSA EEV
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	37.000 A @ 460.0 V
	74.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features

Part Detail

Revision	J
Type	AC
Mech. spec.	10K455
Base	
Status	PRD/A
Elec. spec.	10WGZ351
Layout	10LYK455
Eff. date	10-08-2025
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	02-21-2019

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	37.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1072M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.00 IN
Power Factor	81
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	1.875 IN
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

NP3293												
CAT.NO.	CECR9304T		**P/N**				**ENCLOSURE**	TEFC				
SPEC.	10K455Z351G3	**CC**	010A	**FRAME**	286TC		**S/N**					
HP	30	**CLASS**	F	**HZ**	60	**DES**	A					
RPM	1770	**RPM MAX**	2700	**PH**	3	**KVA-CODE**	G					
VOLT	230/460			**I.P.**	55							
AMP	74/37		**SER.F.**	1.25	**PF**	81	**ODE BRG**	6311	**DE BRG**	6312		
RATING	40C AMB-CONT		**NEMA-NOM-EFF**	93.6	**GREASE**	POLYREX EM						
HTR-VOLTS	**HTR-AMPS**		**HTR-WATTS**		**INV.TYPE**							
	SFA 92/46											
			C HP FR	60	**C HP TO**	90						
			CT HZ FROM	6	**CT HZ TO**	60						
			MOTOR WEIGHT	516	**VT HZ FROM**	6	**VT HZ TO**	60				

AC Induction Motor Performance Data
Record # 49559
Typical performance - not guaranteed values

Winding: 10WGZ351-R001	**Type:** 1072M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	89.2 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			74/37	**Breakdown Torque**	237 LB-FT
R.P.M.			1770	**Pull-up Torque**	156 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	233 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	221 A
Service Factor (S.F.)			1.25	**No-load Current**	14.1 A
NEMA Nom. Eff.	93.6	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.219 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	63°C
S.F. Amps			92/46	**Temp. Rise @ S.F. Load**	87°C
				Locked-rotor Power Factor	34.6
				Rotor inertia	5.69 lb-ft²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	48	69	78	81	83	83	83
Efficiency	90.8	93.8	94.3	93.9	93.3	92.2	93.3
Speed	1793	1786	1779	1771	1763	1752	1763
Line amperes	16.5	21.9	28.7	36.9	45.5	55	45.5

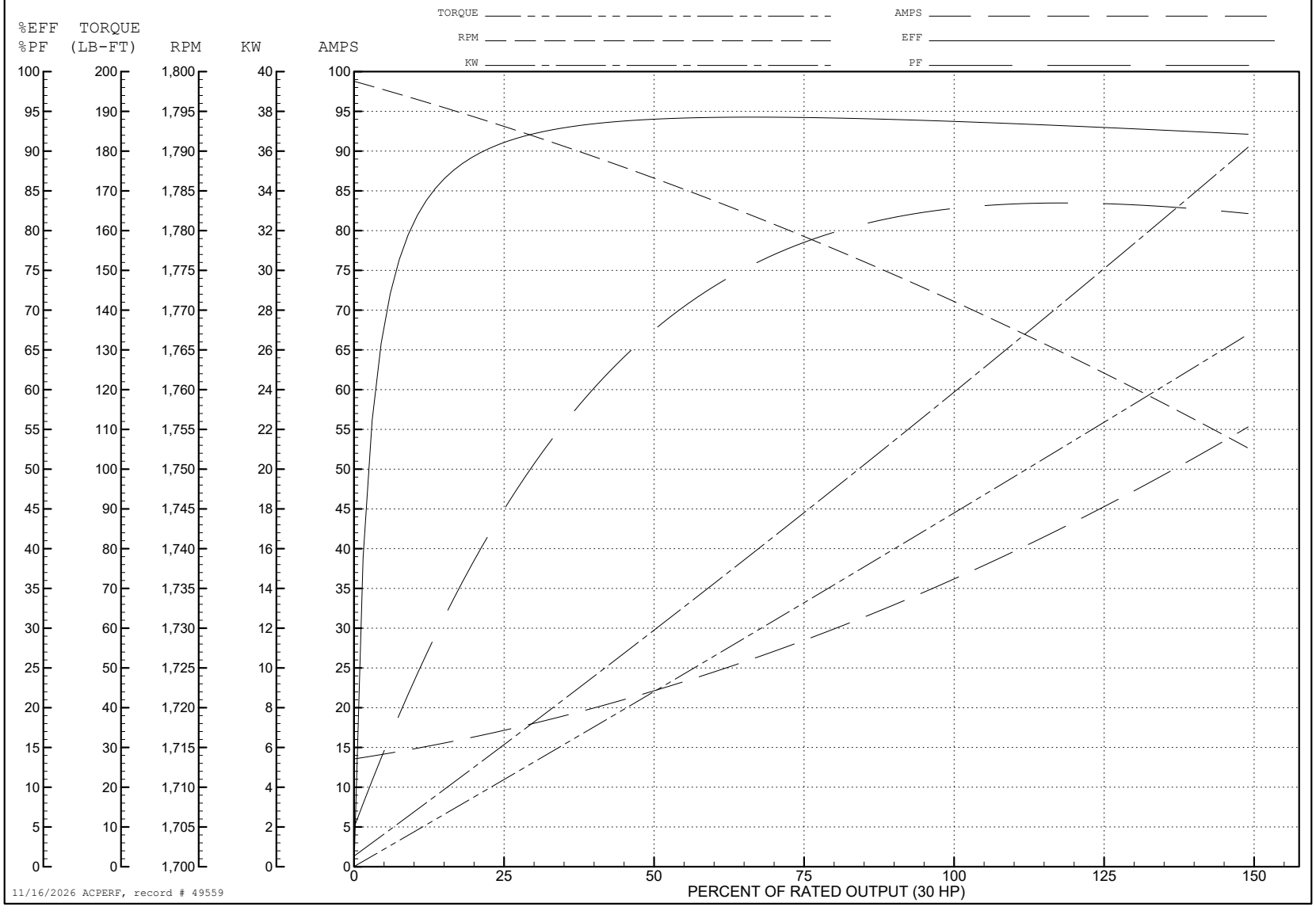
ABB Motors and Mechanical Inc.

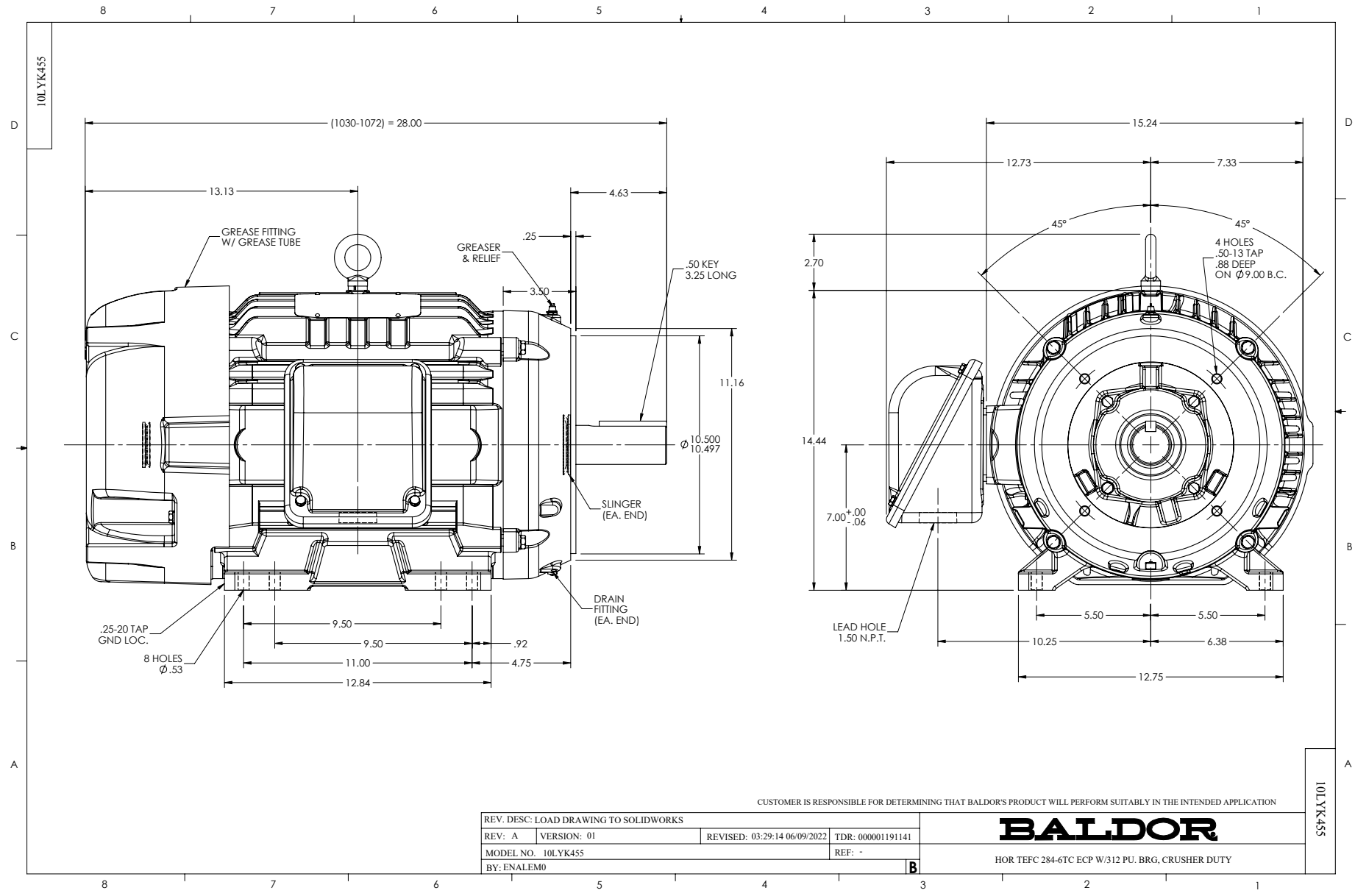
WINDING # 10WGZ351

30 HP 3 PH 60 HZ 1770 RPM 460 V 1072M

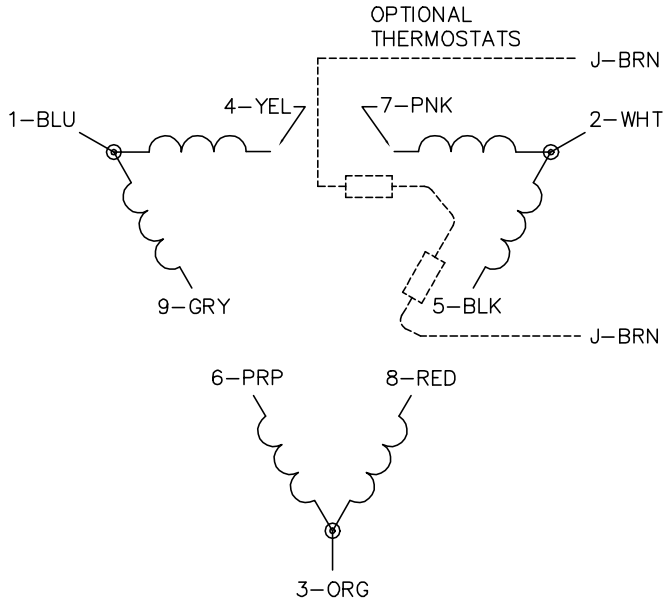
Typical performance - not guaranteed values.

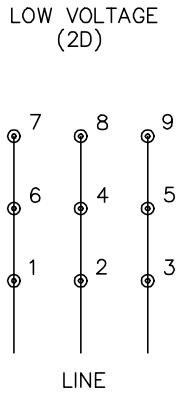
TORQUES(LB-FT): PO=237 PU=156 LR=233 LRA=221

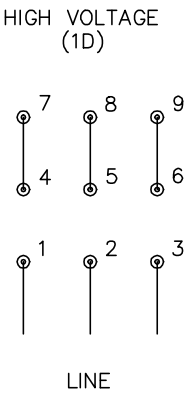



10LYK455
(1030-1072) = 28.00
13.13
4.63
GREASE FITTING
W/ GREASE TUBE
GREASER
& RELIEF
.25
3.50
.50 KEY
3.25 LONG
11.16
Ø 10.500
10.497
SLINGER
(EA. END)
DRAIN
FITTING
(EA. END)
.25-20 TAP
GND LOC.
8 HOLES
Ø .53
9.50
9.50
.92
11.00
4.75
12.84
15.24
12.73
7.33
45°
45°
4 HOLES
.50-13 TAP
.88 DEEP
ON Ø 9.00 B.C.
2.70
14.44
7.00 +.00 -.06
LEAD HOLE
1.50 N.P.T.
5.50
5.50
10.25
6.38
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: A
VERSION: 01
REVISED: 03:29:14 06/09/2022
TDR: 000001191141
MODEL NO. 10LYK455
REF: -
BY: ENALEM0
B
BALDOR
HOR TEFC 284-6TC ECP W/312 PU. BRG, CRUSHER DUTY
10LYK455

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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