ABB BALDOR RELIANCE

Customer information packet

CECR9504T

50HP, 1775RPM, 3PH, 60HZ, 326T, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	326TC
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	50.000 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	122.000 A @ 230.0 V
	61.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features

Part Detail

Revision	G
Type	AC
Mech. spec.	12H992
Base	
Status	PRD/A
Elec. spec.	12WGY875
Layout	12LYH992
Eff. date	11-18-2025
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	02-21-2019

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	61.0 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 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1272M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.20 IN
Power Factor	81
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	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 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.	CECR9504T		**P/N**					**ENCLOSURE**	TEFC				
SPEC.	12H992Y875G2	**CC**	010A	**FRAME**	326TC		**S/N**						
HP	50	**CLASS**	F	**HZ**	60	**DES**	A						
RPM	1775	**RPM MAX**	2700	**PH**	3	**KVA-CODE**	G						
VOLT	230/460			**I.P.**	55								
AMP	122/61		**SER.F.**	1.25	**PF**	81	**ODE BRG**	6312	**DE BRG**	6313			
RATING	40C AMB-CONT		**NEMA-NOM-EFF**	94.5	**GREASE**	POLYREX EM							
HTR-VOLTS	**HTR-AMPS**		**HTR-WATTS**		**INV.TYPE**								
	SFA 150/75												
			C HP FR	60	**C HP TO**	90							
			CT HZ FROM	6	**CT HZ TO**	60							
			MOTOR WEIGHT	700	**VT HZ FROM**	6			**VT HZ TO**	60			

AC Induction Motor Performance Data
Record # 48738
Typical performance - not guaranteed values

Winding: 12WGY875-R001	**Type:** 1272M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	147 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			122/61	**Breakdown Torque**	406 LB-FT
R.P.M.			1775	**Pull-up Torque**	292 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	403 LB-FT
NEMA Design Code	A	**KVA Code**	G	**Starting Current**	394 A
Service Factor (S.F.)			1.25	**No-load Current**	24.6 A
NEMA Nom. Eff.	94.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.106 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps			150/75	**Temp. Rise @ S.F. Load**	83°C
				Locked-rotor Power Factor	29.4
				Rotor inertia	9.55 LB-FT2

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	68	77	81	83	83	83
Efficiency	92.9	95.1	95.6	94.9	94.9	93.9	94.9
Speed	1795	1790	1785	1780	1774	1767	1774
Line amperes	28	36.9	47.8	60.5	75.1	90.5	75.1

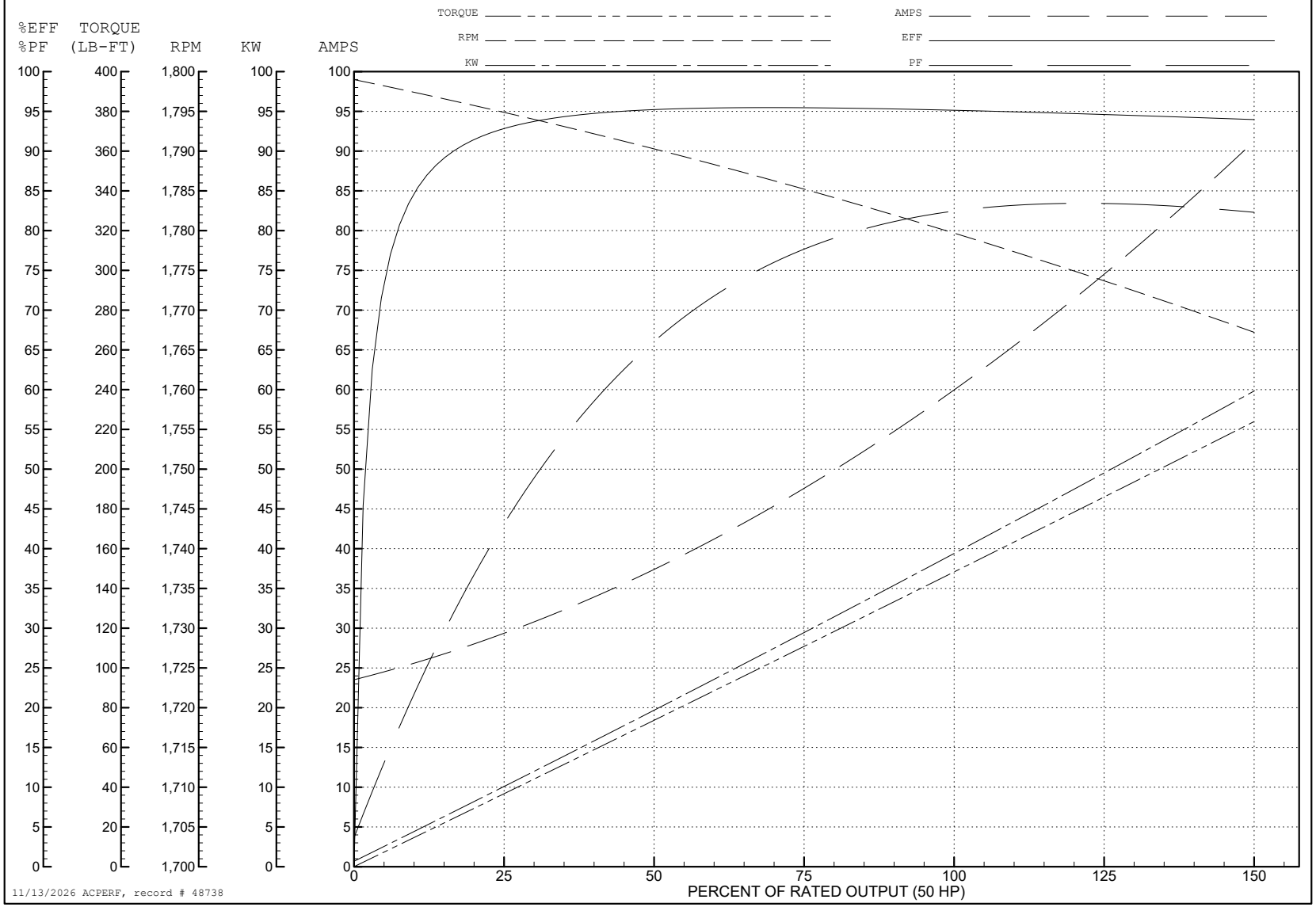
ABB Motors and Mechanical Inc.

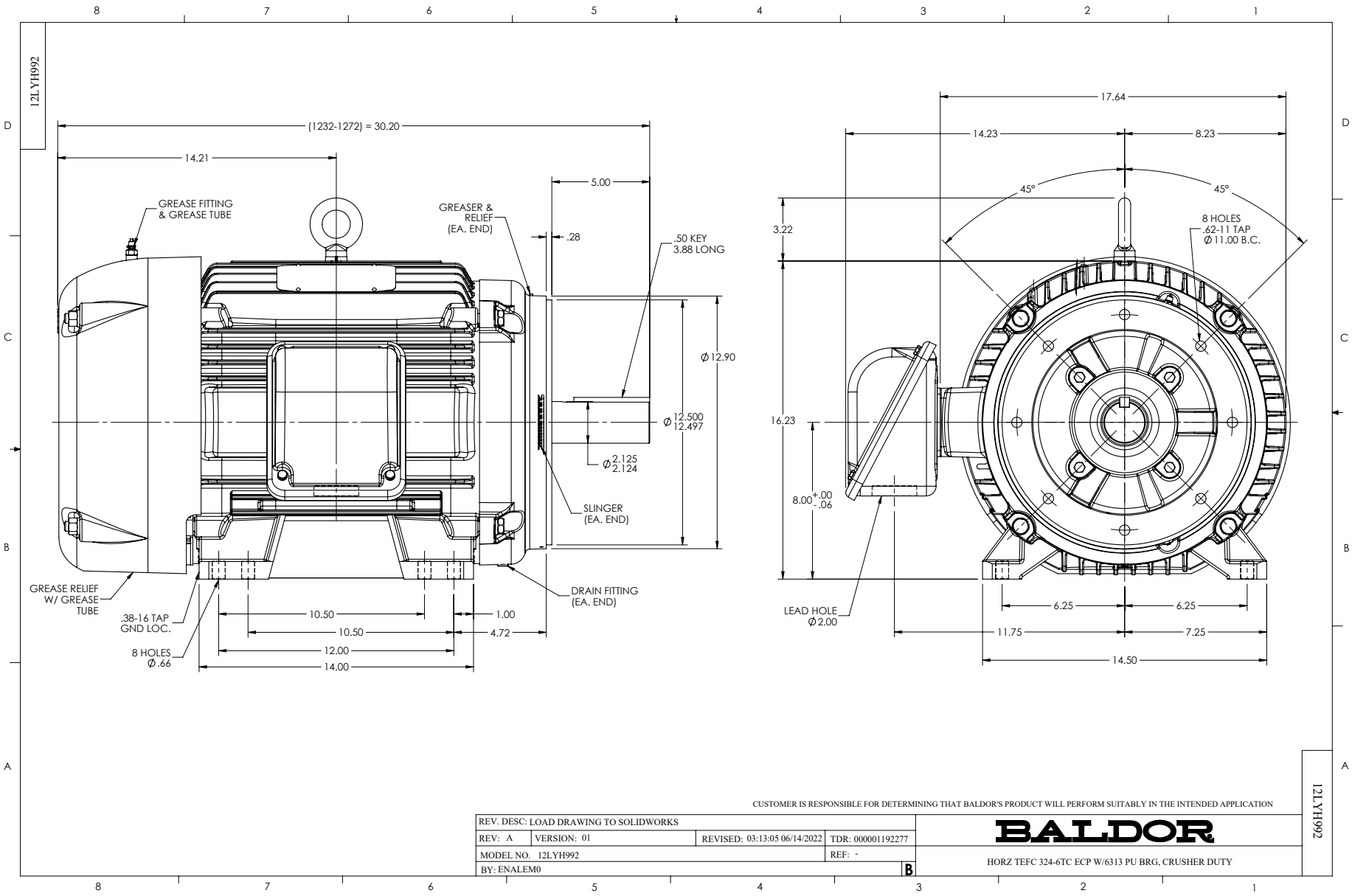
WINDING # 12WGY875

50 HP 3 PH 60 HZ 1775 RPM 460 V 1272M

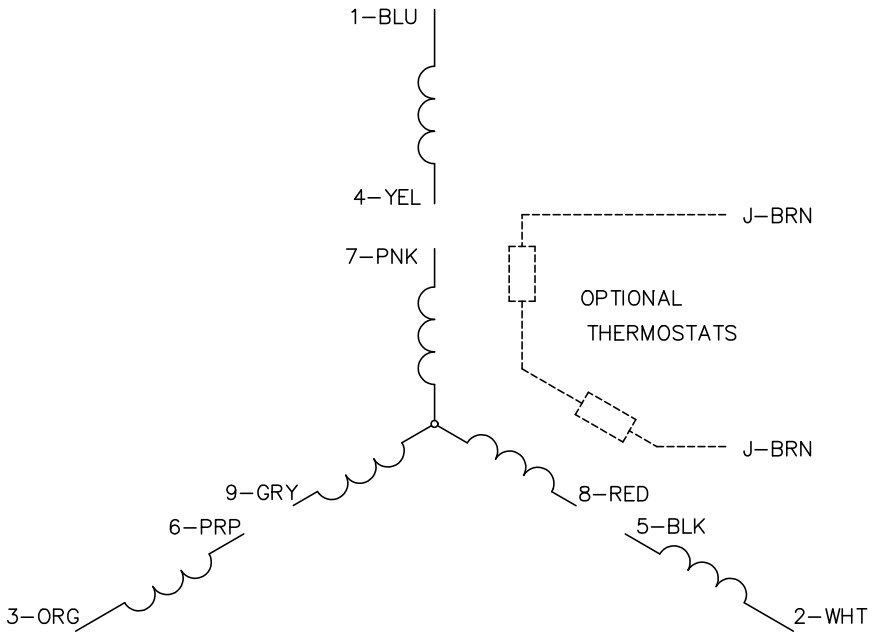
Typical performance - not guaranteed values.

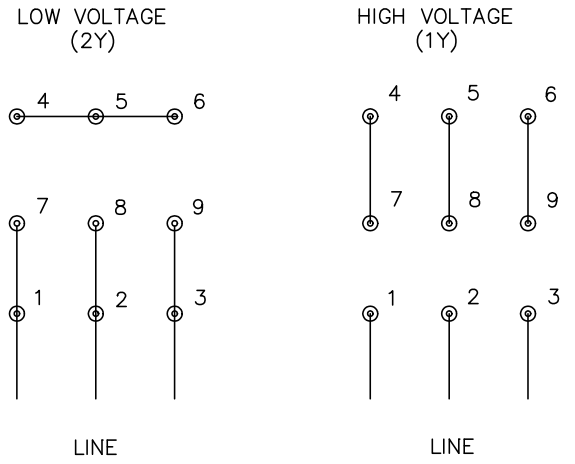
TORQUES(LB-FT): PO=406 PU=292 LR=403 LRA=394




12LYH992
(1232-1272) = 30.20
14.21
5.00
.28
.50 KEY
3.88 LONG
GREASE FITTING
& GREASE TUBE
GREASER &
RELIEF
(EA. END)
Ø12.90
Ø12.500
12.497
Ø2.125
2.124
SLINGER
(EA. END)
DRAIN FITTING
(EA. END)
GREASE RELIEF
W/ GREASE
TUBE
.38-16 TAP
GND LOC.
8 HOLES
Ø.66
10.50
10.50
12.00
14.00
1.00
4.72
17.64
14.23
8.23
45°
45°
3.22
8 HOLES
.62-11 TAP
Ø11.00 B.C.
16.23
8.00 +.00 -.06
LEAD HOLE
Ø2.00
6.25
6.25
11.75
7.25
14.50
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: 03:13:05 06/14/2022
TDR: 000001192277
MODEL NO. 12LYH992
REF: -
BY: ENALEM0
B
BALDOR
HORZ TEFC 324-6TC ECP W/6313 PU BRG, CRUSHER DUTY
12LYH992

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS