ABB BALDOR RELIANCE

Customer information packet

ECR9404T

40HP, 1775RPM, 3PH, 60HZ, 324T, 1264M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	324T
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 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	98.000 A @ 230.0 V
	49.000 A @ 460.0 V
	106.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	Q
Type	AC
Mech. spec.	12H518
Base	
Status	PRD/A
Elec. spec.	12WGY872
Layout	12LYH518
Eff. date	10-16-2025
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	01-07-2015

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	49.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1264M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.66 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 Extension Location	Pulley End
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.	ECR9404T		**P/N**				**ENCLOSURE**	TEFC					
SPEC.	12H518Y872G1	**CC**	010A	**FRAME**	324T		**S/N**						
HP	40	**CLASS**	F	**HZ**	60	**DES**	A						
RPM	1775	**RPM MAX**	2700	**PH**	3	**KVA-CODE**	G						
VOLT	230/460			**I.P.**	55								
AMP	98/49		**SER.F.**	1.25	**PF**	81	**ODE BRG**	6312	**DE BRG**	6313			
RATING	40C AMB-CONT		**NEMA-NOM-EFF**	94.1	**GREASE**	POLYREX EM							
HTR-VOLTS	**HTR-AMPS**		**HTR-WATTS**		**INV.TYPE**								
	SFA 122/61												
			C HP FR	60	**C HP TO**	90							
			CT HZ FROM	6	**CT HZ TO**	60							
			MOTOR WEIGHT	645	**VT HZ FROM**	6	**VT HZ TO**	60					

AC Induction Motor Performance Data
Record # 48603
Typical performance - not guaranteed values

Winding: 12WGY872-R001 **Type:** 1264M **Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			40
Volts			230/460
Full Load Amps			98/49
R.P.M.			1775
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	G
Service Factor (S.F.)			1.25
NEMA Nom. Eff.	94.1	**Power Factor**	81
Rating - Duty			40C AMB-CONT
S.F. Amps			122/61

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	118 LB-FT
Start Configuration	direct on line
Breakdown Torque	313 LB-FT
Pull-up Torque	202 LB-FT
Locked-rotor Torque	289 LB-FT
Starting Current	304 A
No-load Current	19.5 A
Line-line Res. @ 25ºC	0.14 Ω
Temp. Rise @ Rated Load	55°C
Temp. Rise @ S.F. Load	76°C
Locked-rotor Power Factor	30
Rotor inertia	8.49 LB-FT2

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	46	67	77	81	82	82	82
Efficiency	89.8	93.7	94.3	94.2	93.4	93	93.6
Speed	1794	1790	1784	1779	1771	1763	1772
Line amperes	22.6	29.7	38.7	49.2	60.7	73.8	60.7

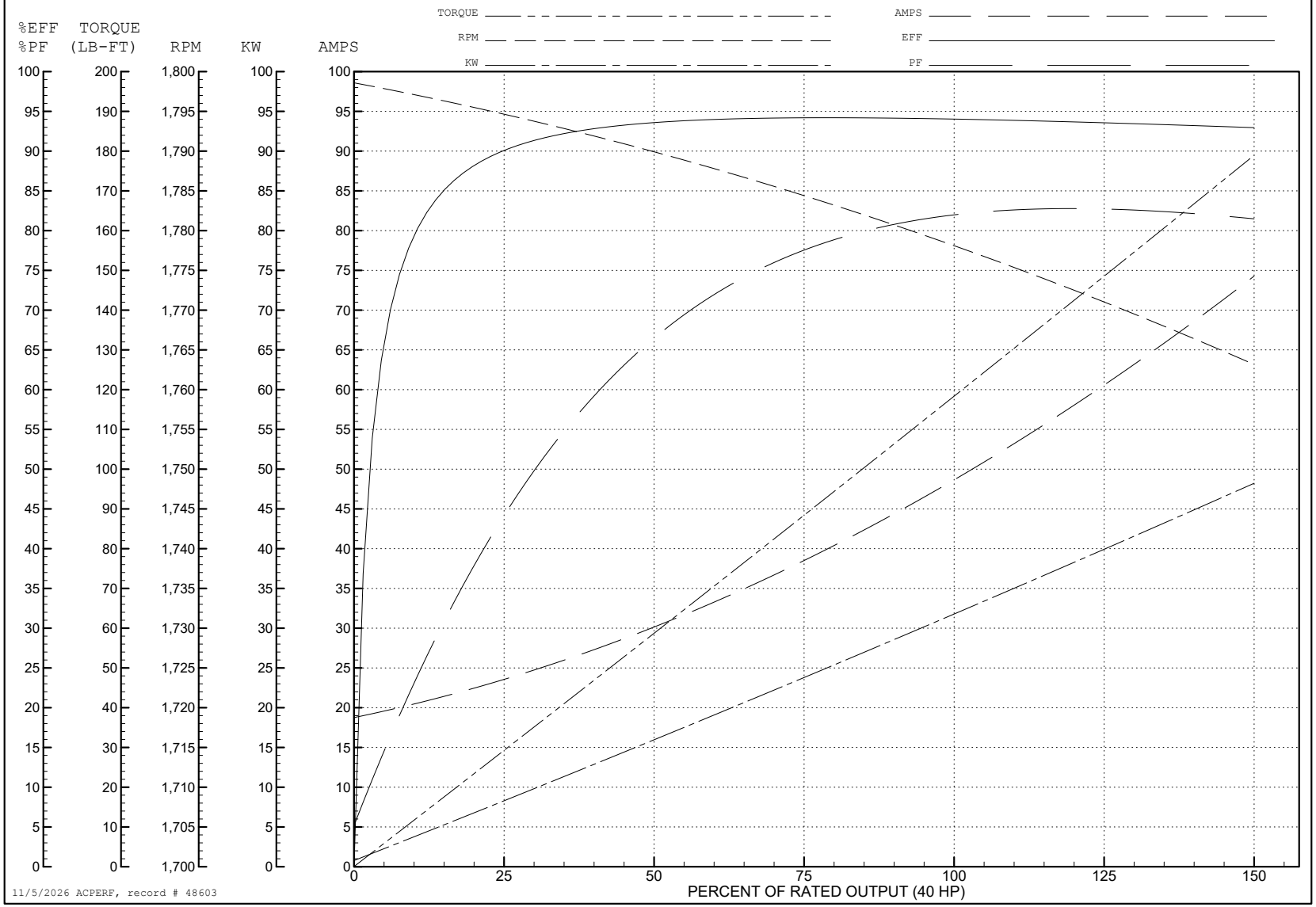
ABB Motors and Mechanical Inc.

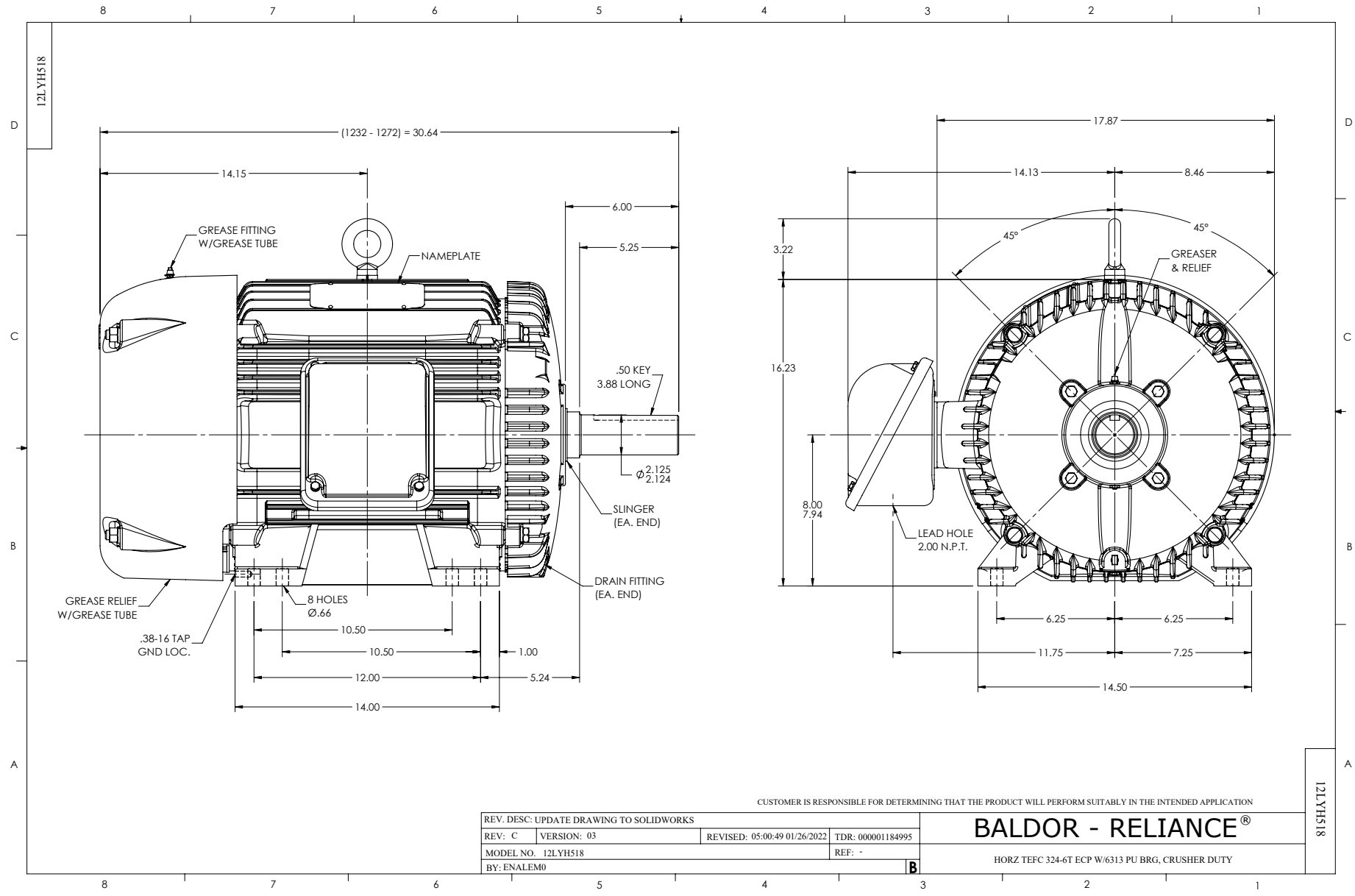
WINDING # 12WGY872

40 HP 3 PH 60 HZ 1775 RPM 460 V 1264M

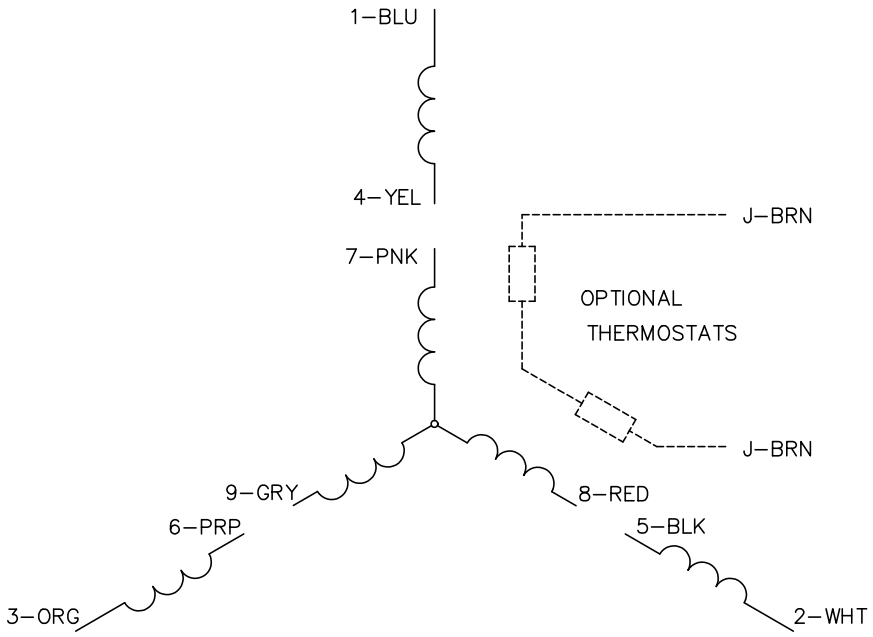
TORQUES(LB-FT): PO=313 PU=202 LR=289 LRA=304

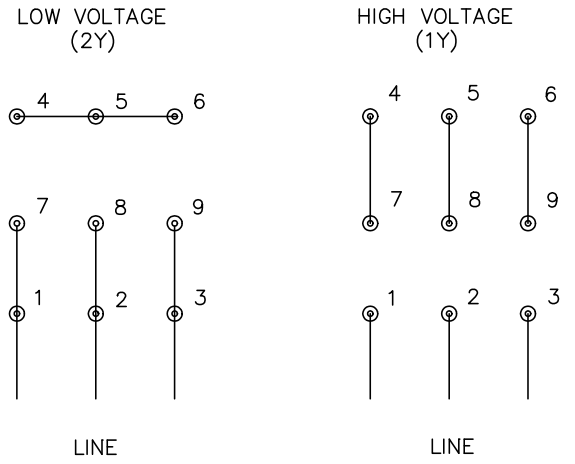
Typical performance - not guaranteed values.




12LYH518
(1232 - 1272) = 30.64
14.15
6.00
5.25
GREASE FITTING
W/GREASE TUBE
NAMEPLATE
.50 KEY
3.88 LONG
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
1.00
12.00
5.24
14.00
17.87
14.13
8.46
45°
45°
3.22
GREASER
& RELIEF
16.23
8.00
7.94
LEAD HOLE
2.00 N.P.T.
6.25
6.25
11.75
7.25
14.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE DRAWING TO SOLIDWORKS
REV: C
VERSION: 03
REVISED: 05:00:49 01/26/2022
TDR: 000001184995
MODEL NO. 12LYH518
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ TEFC 324-6T ECP W/6313 PU BRG, CRUSHER DUTY
12LYH518

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