ABB BALDOR RELIANCE

Customer information packet

CECP2294T

15HP, 3520RPM, 3PH, 60HZ, 254TC, 0930M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	254TC
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	38.000 A @ 208.0 V
	35.000 A @ 230.0 V
	17.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	N
Type	AC
Mech. spec.	09J540
Base	
Status	PRD/A
Elec. spec.	09WGZ602
Layout	09LYJ540
Eff. date	06-12-2024
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	05-29-2018

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	17.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0930M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.28 IN
Power Factor	87
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	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3520 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

NP3995ABEL

CAT #	CECP2294T			**SER**				**CC**	010A										
SPEC	09J540Z602G4			**RATING**	40C AMB-CONT														
HZ	**VOLTS**			**AMPS**			**RPM**	**HP**	**CODE**		**SF**	**DES**	**PF**		**NEMA NOM. EFF**				
60	230/460			35/17.5			3520	15	G		1.15	B	87	%	91	%			
														%		%			
PH	3	**CL**	F	**MAX RPM**	5400		**MAX CORR KVAR**	2.85			**USABLE AT 208V**		N/A						
IP55		**FR**	254TC		**ENCL**	TEFC		**DE BRG**	6309			**ODE BRG**	6309						
GREASE	POLYREX EM										**MTR WT**	307	**LBS**						
USABLE AT	50HZ 10HP 190/380V 29.4/14.7A																		
CL I DIV 2 GRPS A,B,C,D					**CL I ZONE 2 GRPS**					**IIA,IIB,IIC**			**TEMP T**	160	C				
1.0 SF ON PWM INVERTER				**POWER**			**INV TEMP CL**	180	C										
CHP	60-90	**HZ**	1.5:1	**CT**	6-60	**HZ**	10:1	**VT**	3-60	**HZ**	20:1								
SPACE HEATER LEADS H1-H2:					**TIE LIKE NUMBERS**			**TOGETHER**											
V		**A**		**W**			**MAX SPACE HEATER TEMP**												

AC Induction Motor Performance Data
Record # 70995
Typical performance - not guaranteed values

Winding: 09WGZ602-R050	**Type:** 0930M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			15	**Full Load Torque**	22.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			35/17.5	**Breakdown Torque**	105 LB-FT
R.P.M.			3520	**Pull-up Torque**	26.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	36.3 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	110 A
Service Factor (S.F.)			1.15	**No-load Current**	5.58 A
NEMA Nom. Eff.	91	**Power Factor**	87	**Line-line Res. @ 25ºC**	0.68654 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	30
				Rotor inertia	0.766 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	55	77	85	87	89	89	88
Efficiency	86.4	91	91.6	91	90	88.6	90.4
Speed	3582.7	3563.6	3542.7	3520.9	3495.8	3468.3	3506
Line amperes	6.93	9.78	13.5	17.5	21.6	26.4	20

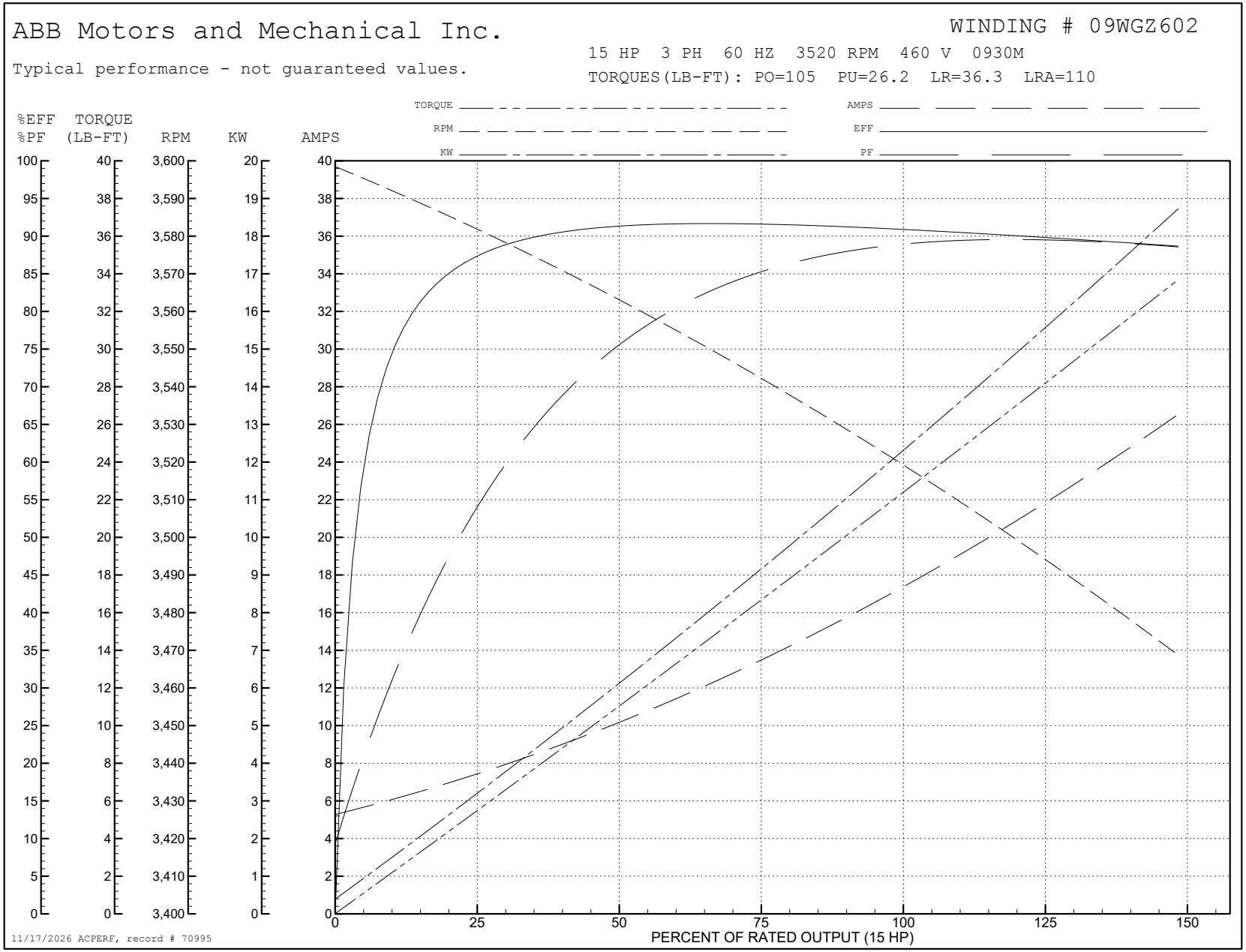
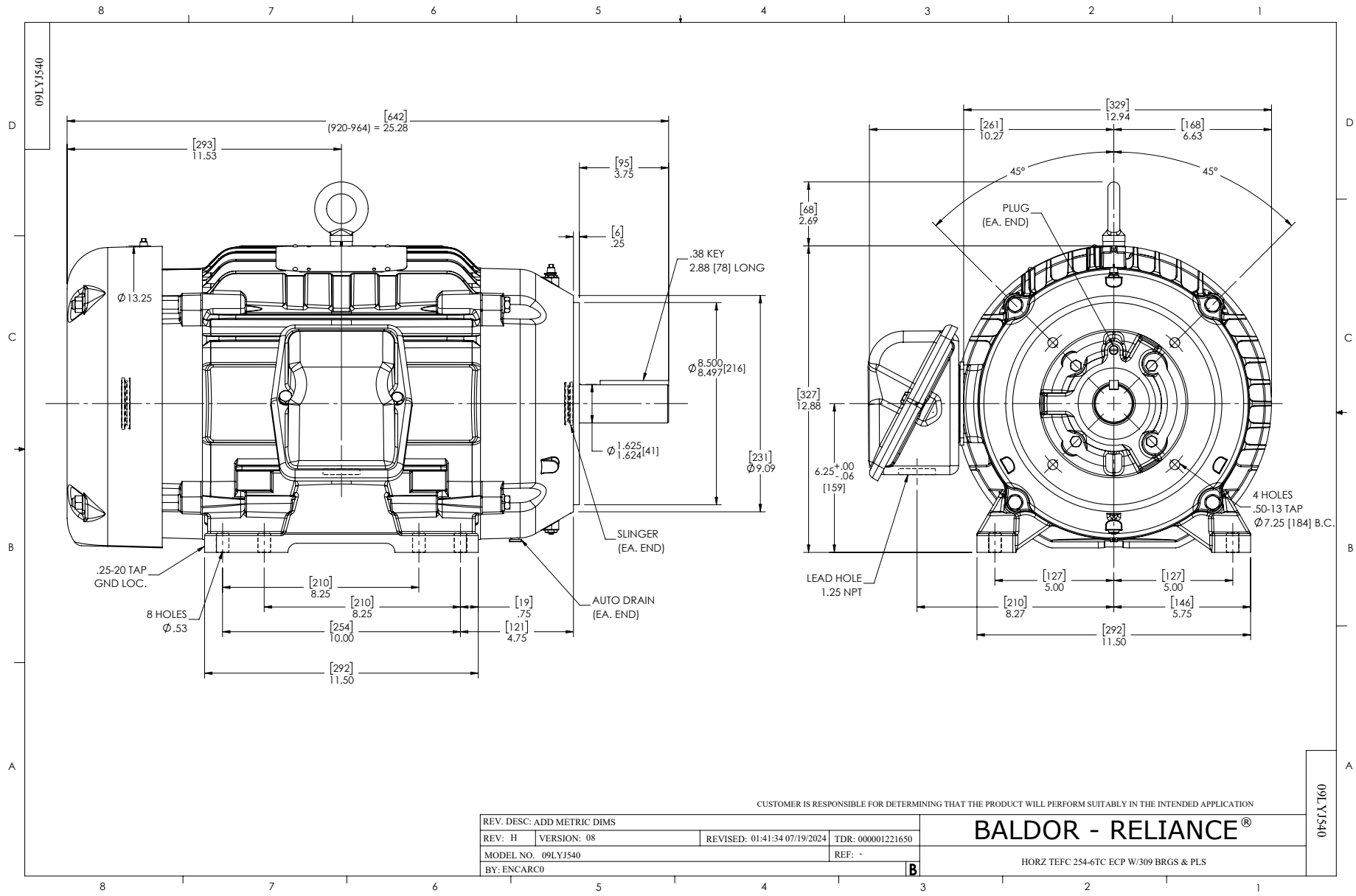


ABB Motors and Mechanical Inc.
WINDING # 09WGZ602
15 HP 3 PH 60 HZ 3520 RPM 460 V 0930M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=105 PU=26.2 LR=36.3 LRA=110
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (15 HP)
11/17/2026 ACPERF, record # 70995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(920-964) = 25.28
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3.75
[6]
.25
.38 KEY
2.88 [78] LONG
Ø13.25
Ø8.500
8.497 [216]
Ø1.625
1.624 [41]
[231]
Ø9.09
SLINGER
(EA. END)
.25-20 TAP
GND LOC.
8 HOLES
Ø.53
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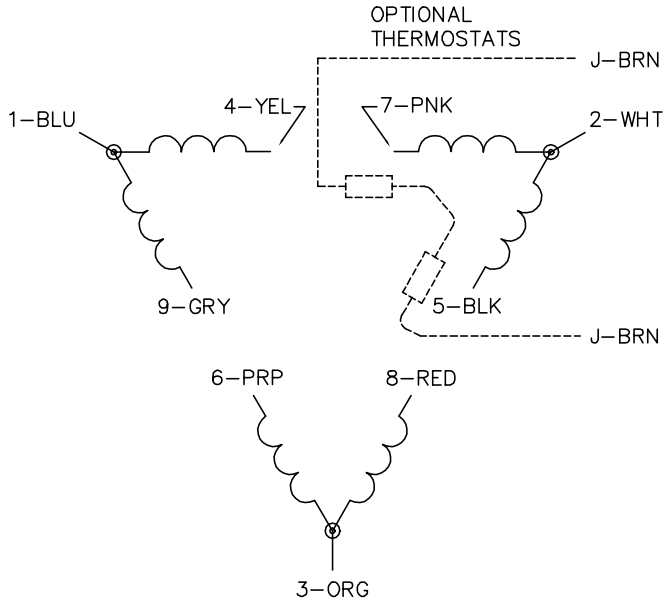
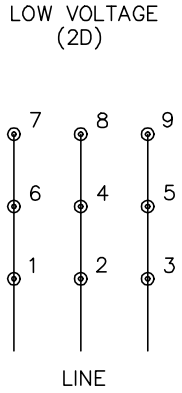
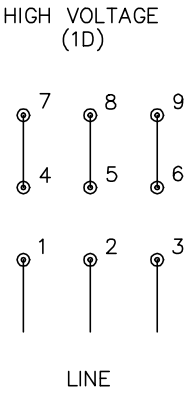
8.25
[210]
8.25
[19]
.75
[254]
10.00
[121]
4.75
[292]
11.50
AUTO DRAIN
(EA. END)
[329]
12.94
[261]
10.27
[168]
6.63
45°
45°
[68]
2.69
PLUG
(EA. END)
[327]
12.88
6.25 +.00 -.06
[159]
4 HOLES
.50-13 TAP
Ø7.25 [184] B.C.
LEAD HOLE
1.25 NPT
[127]
5.00
[127]
5.00
[210]
8.27
[146]
5.75
[292]
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD METRIC DIMS
REV: H
VERSION: 08
REVISED: 01:41:34 07/19/2024
TDR: 000001221650
MODEL NO. 09LYJ540
REF: -
BY: ENCARC0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6TC ECP W/309 BRGS & PLS
09LYJ540

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

SH 1 of 1