

ABB BALDOR RELIANCE III

Customer information packet

ECP2294T

30M 2P TEFC HOR 254T CHEM SERV SP32-6 SE

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	254T
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.	09J371
Base	
Status	PRD/A
Elec. spec.	09WGZ602
Layout	09LYJ371
Eff. date	09-12-2024
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	05-29-2018

Enclosure Modification	Severe Duty Features
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	24.78 IN
Power Factor	87
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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 #		ECP2294T					SER				CC		010A										
SPEC		09J371Z602G2					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		254T		ENCL		TEFC		DE BRG		6309		ODE BRG			6309					
GREASE			POLYREX EM												MTR WT			300		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. @ 25°C		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

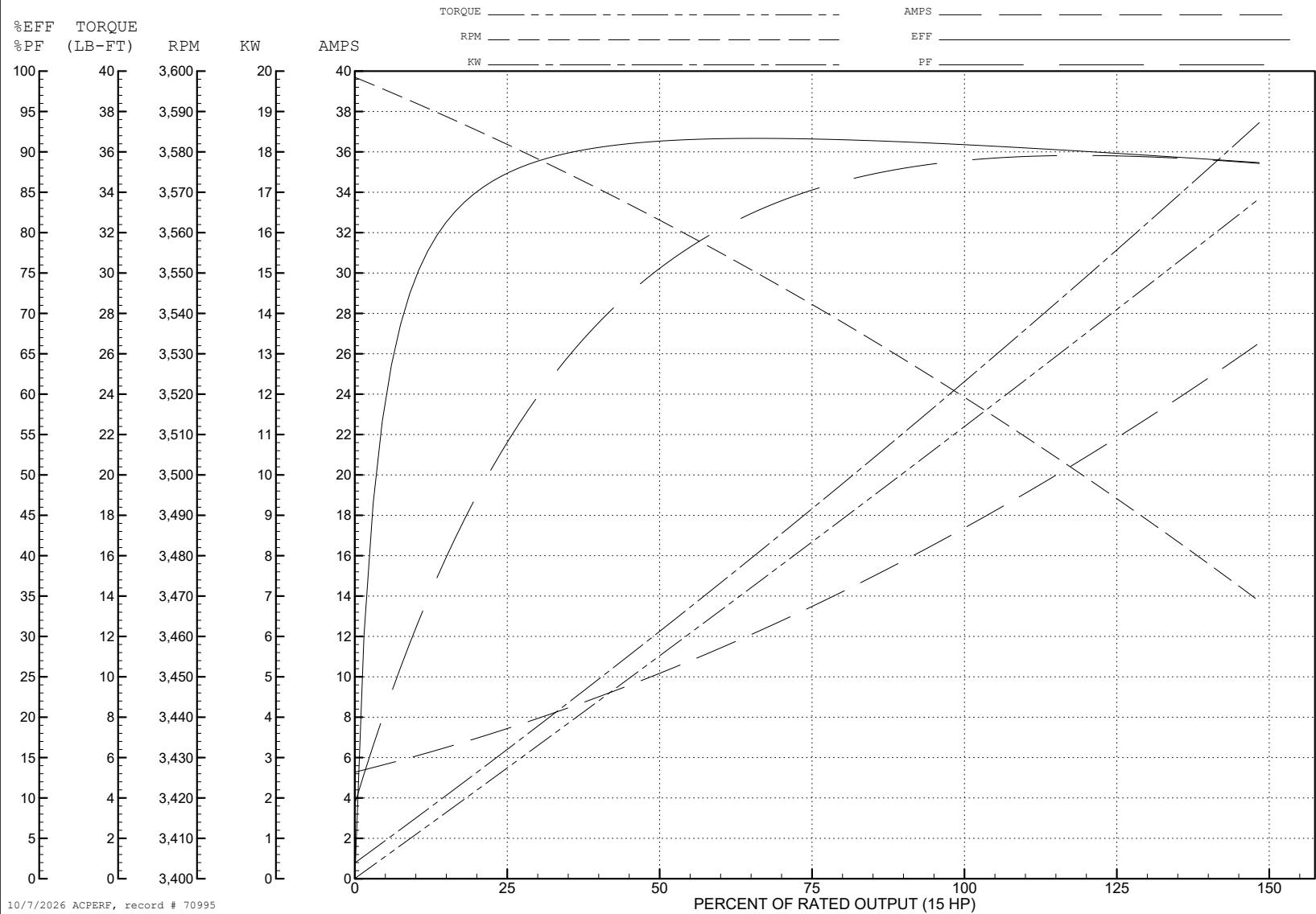
ABB Motors and Mechanical Inc.

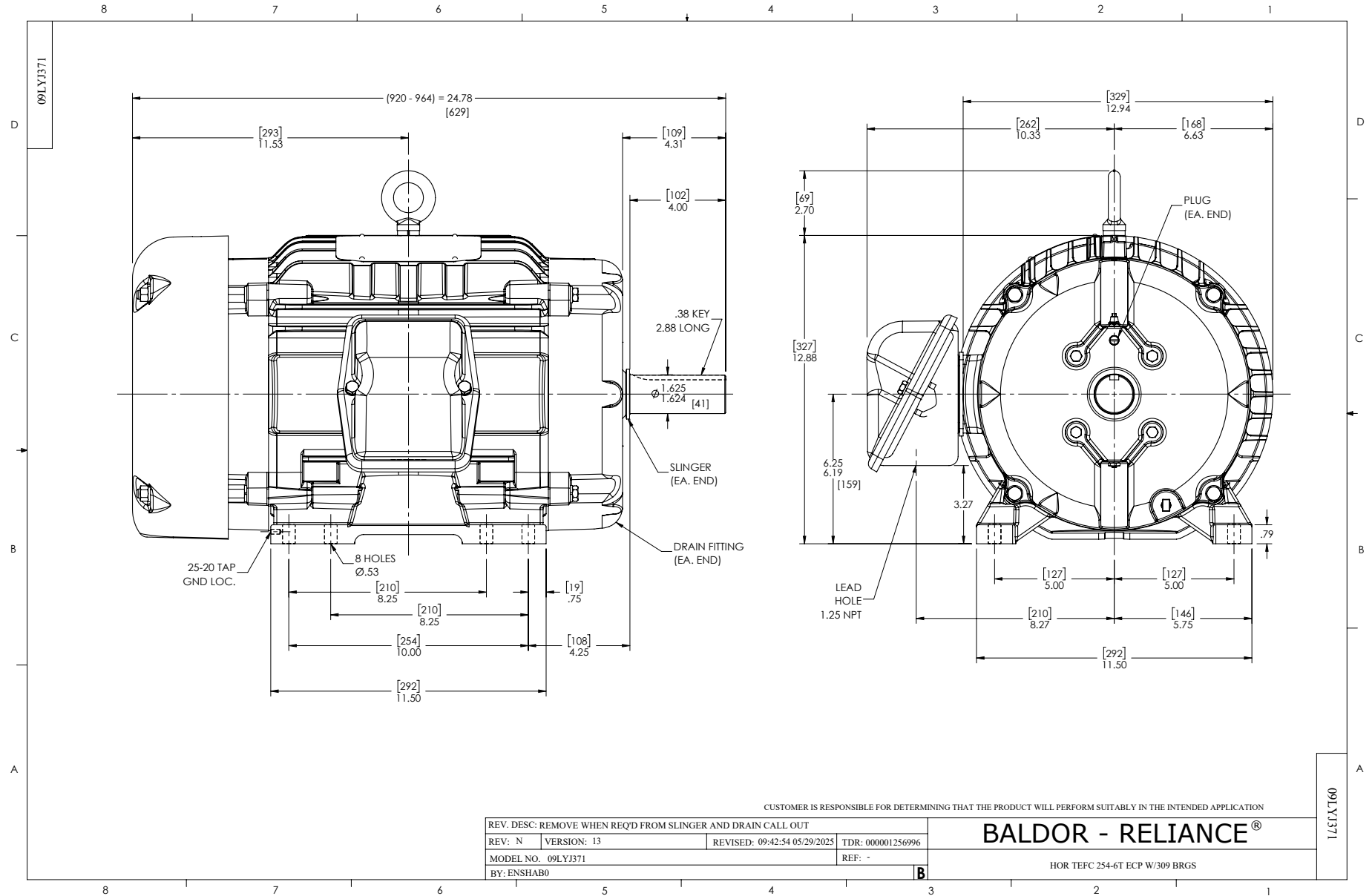
WINDING # 09WGZ602

Typical performance - not guaranteed values.

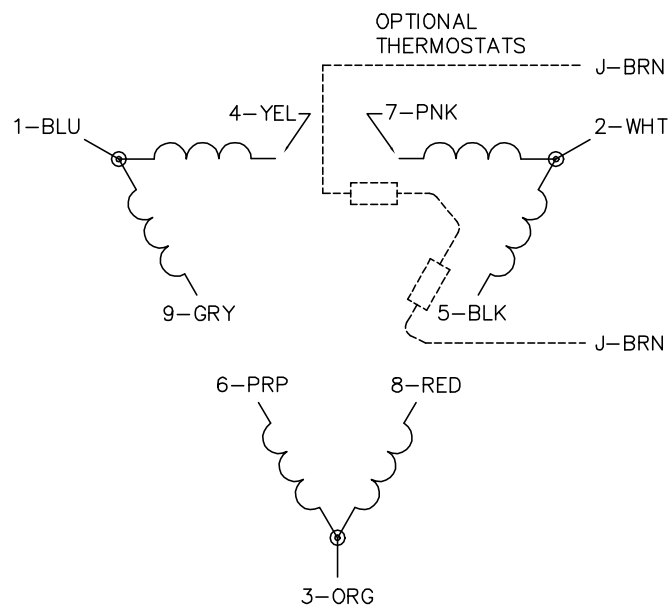
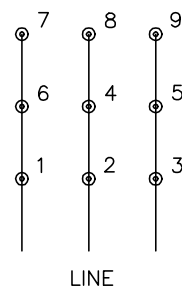
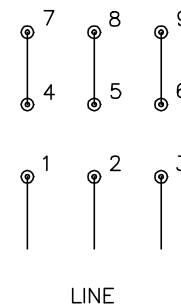
15 HP 3 PH 60 HZ 3520 RPM 460 V 0930M

TORQUES (LB-FT): PO=105 PU=26.2 LR=36.3 LRA=110





CD0180


 LOW VOLTAGE
(2D)

 HIGH VOLTAGE
(1D)

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: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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