

ABB BALDOR RELIANCE III

Customer information packet

CECP2294T

15HP, 3520RPM, 3PH, 60HZ, 254TC, 0930M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

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	Starting Current		110 A	
Service Factor (S.F.)		1.15	No-load Current		5.58 A	
NEMA Nom. Eff.		91 Power Factor	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

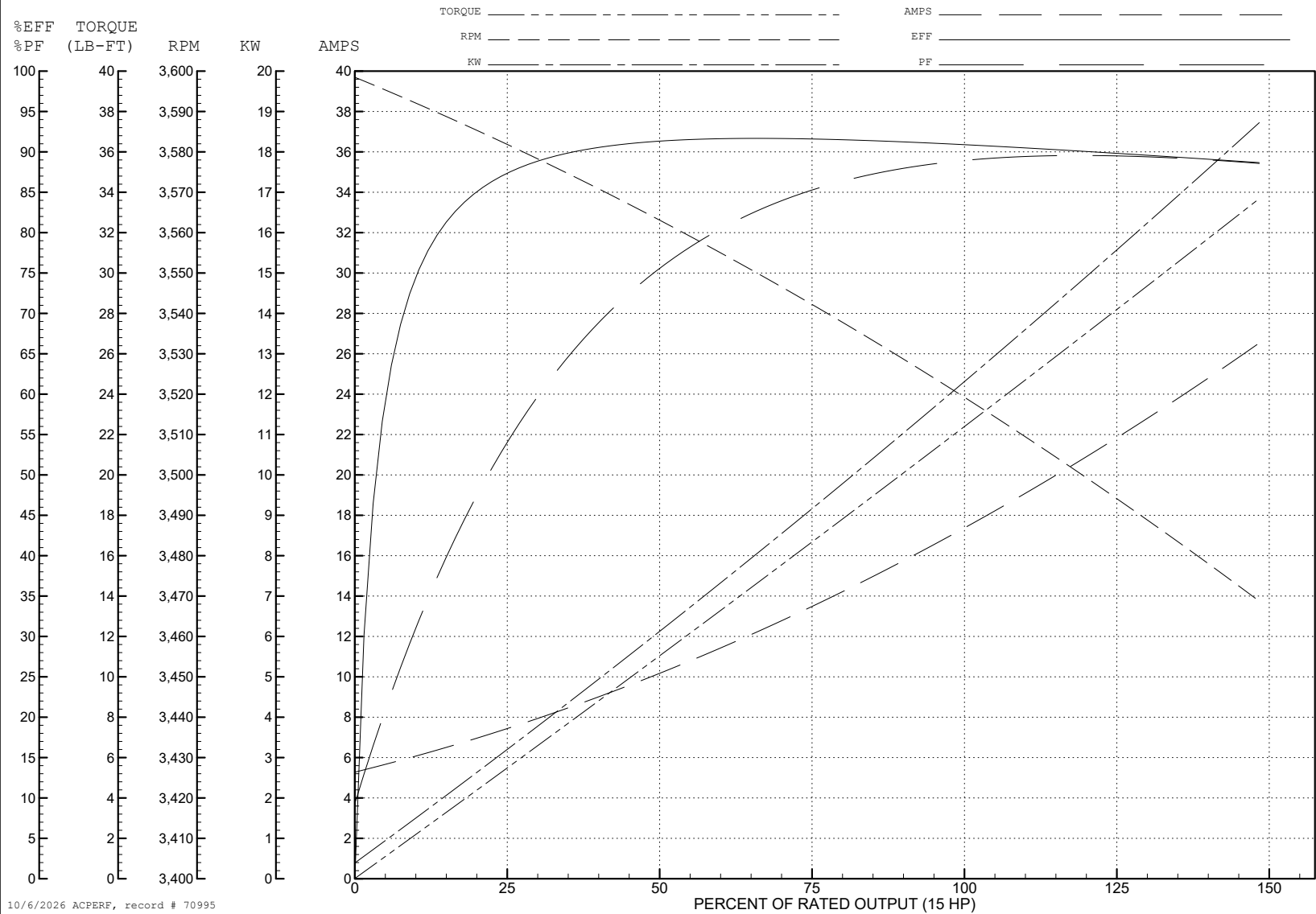
ABB Motors and Mechanical Inc.

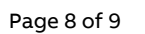
WINDING # 09WGZ602

Typical performance - not guaranteed values.

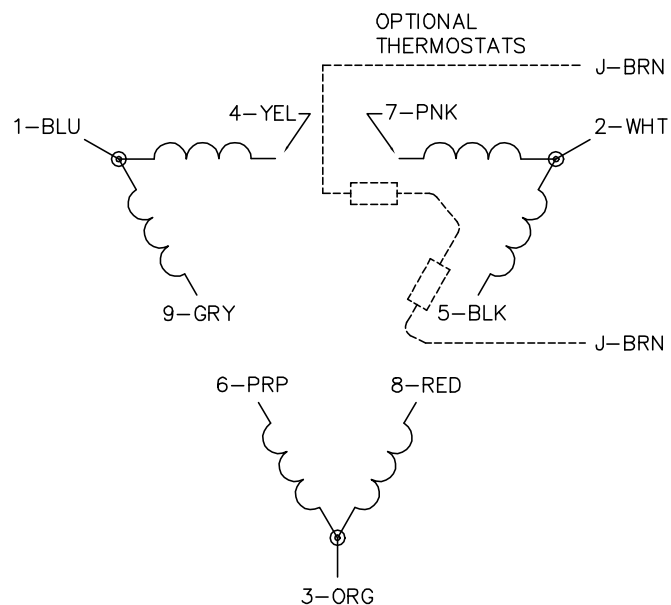
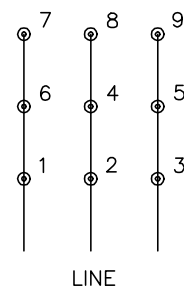
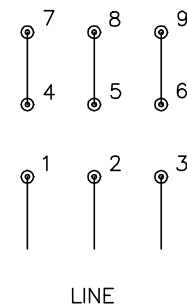
15 HP 3 PH 60 HZ 3520 RPM 460 V 0930M

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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