

ABB BALDOR RELIANCE III

Customer information packet

ECP2394T-4

15HP, 3525RPM, 3PH, 60HZ, 254T, 0934M, TEFC, F1

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	CL I 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
Agency Approvals	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
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	17.200 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	AX
Type	AC
Mech. spec.	09J371
Base	
Status	PRD/A
Elec. spec.	09WGY614
Layout	09LYJ371
Eff. date	09-12-2024
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	08-29-2010

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	17.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0934M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	24.78 IN
Power Factor	88
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 Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3525 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

NP3995ABBL																
CAT #		ECP2394T-4				SER				CC		010A				
SPEC		09J371Y614				RATING		40C AMB-CONT								
HZ		VOLTS		AMPS		RPM		HP	CODE	SF	DES	PF	NEMA NOM. EFF			
60		460		17.2		3525		15	H	1.15	A	88	%	91.7	%	
												%		%		
PH	3	CL	F	MAX RPM	5400	MAX CORR KVAR		2.6		USABLE AT 208V			N/A			
IP55		FR	254T		ENCL	TEFC	DE BRG	6309		ODE BRG		6309				
GREASE		POLYREX EM								MTR WT		297	LBS			
USABLE AT			50HZ 10HP 380V 14.4A								SF1.0					
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							

Accessories

Part number	Description	Multiplier
09-1309	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 47272

Typical performance - not guaranteed values

Winding: 09WGY614-R020				Type: 0934M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15		Full Load Torque		22.2 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		17.2		Breakdown Torque		103 LB-FT	
R.P.M.		3525		Pull-up Torque		33 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		41 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		128 A
Service Factor (S.F.)		1.15		No-load Current		5.9 A	
NEMA Nom. Eff.		91.7	Power Factor	88	Line-line Res. @ 25°C		0.559 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		55°C	
S.F. Amps				Temp. Rise @ S.F. Load		66°C	
				Locked-rotor Power Factor		28.7	
				Rotor inertia		0.868 LB-FT2	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	86	88	91	91	90
Efficiency	86.2	90.8	91.9	91.9	91.5	90.7	91.7
Speed	3583	3567	3550	3533	3514	3493	3522
Line amperes	7.2	10	13.4	17.2	21.2	25.5	19.6

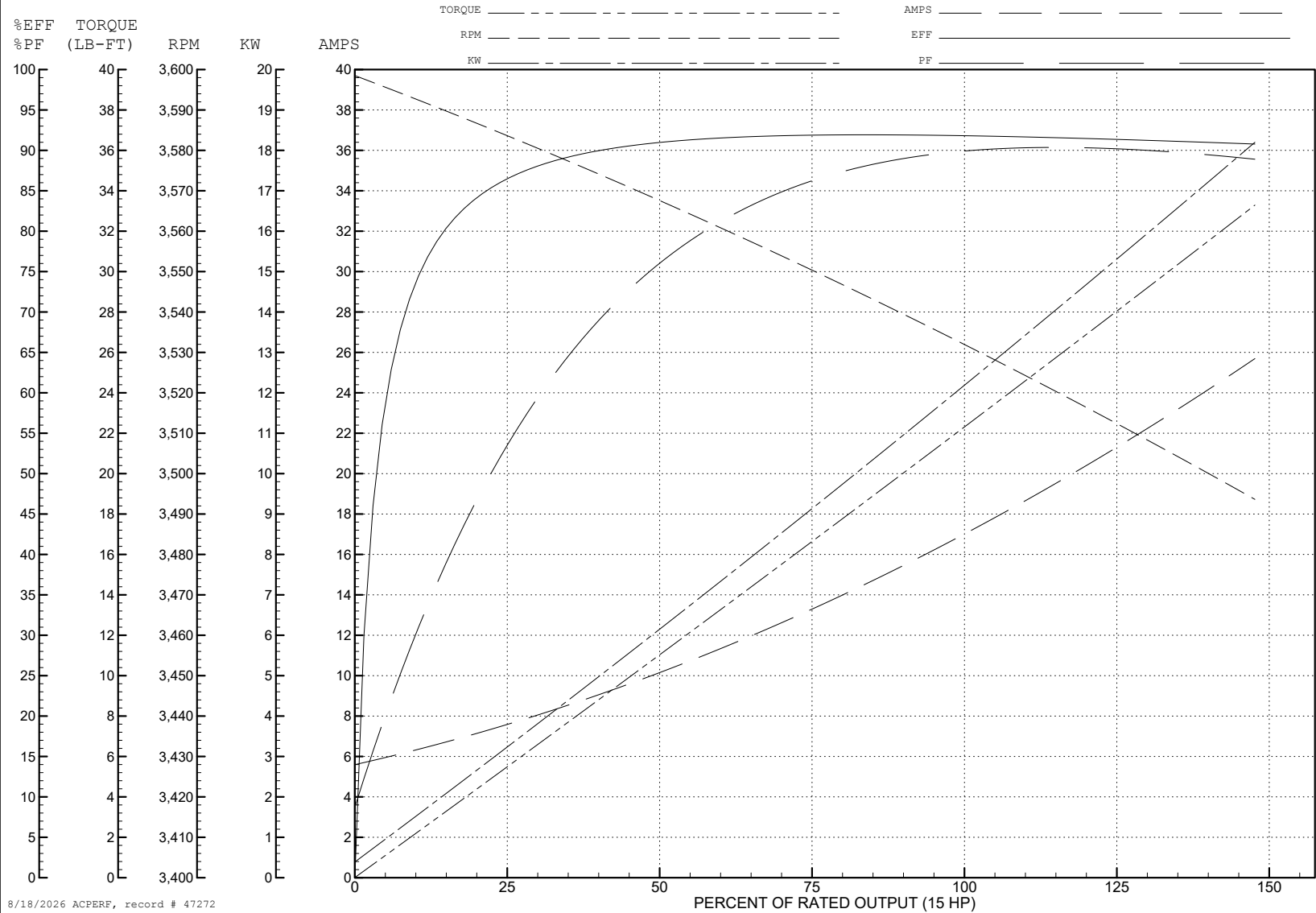
ABB Motors and Mechanical Inc.

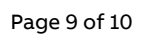
WINDING # 09WGY614

Typical performance - not guaranteed values.

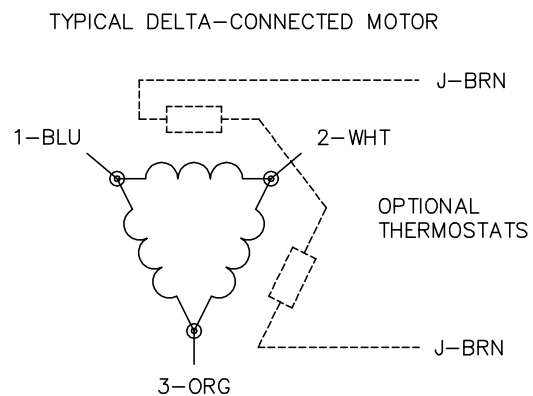
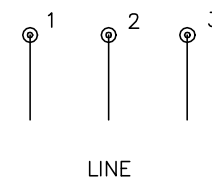
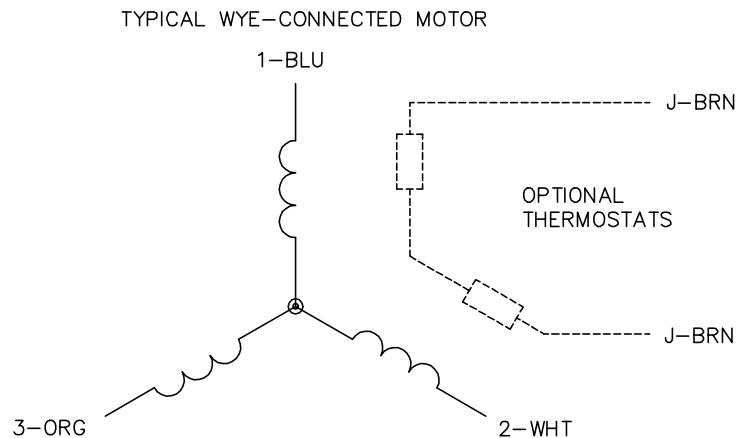
15 HP 3 PH 60 HZ 3525 RPM 460 V 0934M

TORQUES (LB-FT): PO=103 PU=33 LR=41 LRA=128





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10: 24: 49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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