

ABB BALDOR RELIANCE III

Customer information packet

ECP2333T

15HP, 1765RPM, 3PH, 60HZ, 254T, 0944M, 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	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	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
Current @ Voltage	38.000 A @ 208.0 V 36.200 A @ 230.0 V 18.100 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features

Part Detail

Revision	K
Type	AC
Mech. spec.	09J371
Base	
Status	PRD/A
Elec. spec.	09WGT597
Layout	09LYJ371
Eff. date	09-16-2025
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-02-2021

Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	18.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.78 IN
Power Factor	84
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	1765 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

NP3995ABAL																
CAT #		ECP2333T				SER				CC		010A				
SPEC		09J371T597				RATING		40C AMB-CONT								
HZ		VOLTS		AMPS		RPM		HP	CODE		SF	DES	PF	NEMA NOM. EFF		
60		230/460		36.2/18.1		1765		15	H		1.15	A	84	%	92.4	%
													%		%	
PH	3	CL	F	MAX RPM 2700		MAX CORR KVAR		3.8	USABLE AT 208V				N/A			
IP55		FR		254T		ENCL TEFC		DE BRG		6309		ODE BRG		6309		
GREASE		POLYREX EM								MTR WT		319	LBS			
USABLE AT			50HZ 10HP 190/380V 30.4/15.2A								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	1.2-60		HZ	50:1	VT	0-60	HZ	1000:1			
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 # 86511

Preliminary Data Sheet

Winding: 09WGT597-R006			Type: 0944M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		15		Full Load Torque		44.5 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		36.2/18.1		Breakdown Torque		154 LB-FT	
R.P.M.		1765		Pull-up Torque		67.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		83.5 LB-FT	
NEMA Design Code		A	KVA Code	H		Starting Current	129 A
Service Factor (S.F.)		1.15		No-load Current		7.32 A	
NEMA Nom. Eff.		92.4	Power Factor	84		Line-line Res. @ 25°C	0.61 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		52°C	
S.F. Amps		41.0/20.5		Temp. Rise @ S.F. Load		67°C	
				Locked-rotor Power Factor		38.1	
				Rotor inertia		1.92 lb-ft²	

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	69	79	84	86	87	86
Efficiency	88	92.1	92.7	92.5	91.7	90.7	91.9
Speed	1792	1785	1777	1768	1759	1749	1761
Line amperes	8.45	11	14.3	18.1	22.2	26.7	20.5

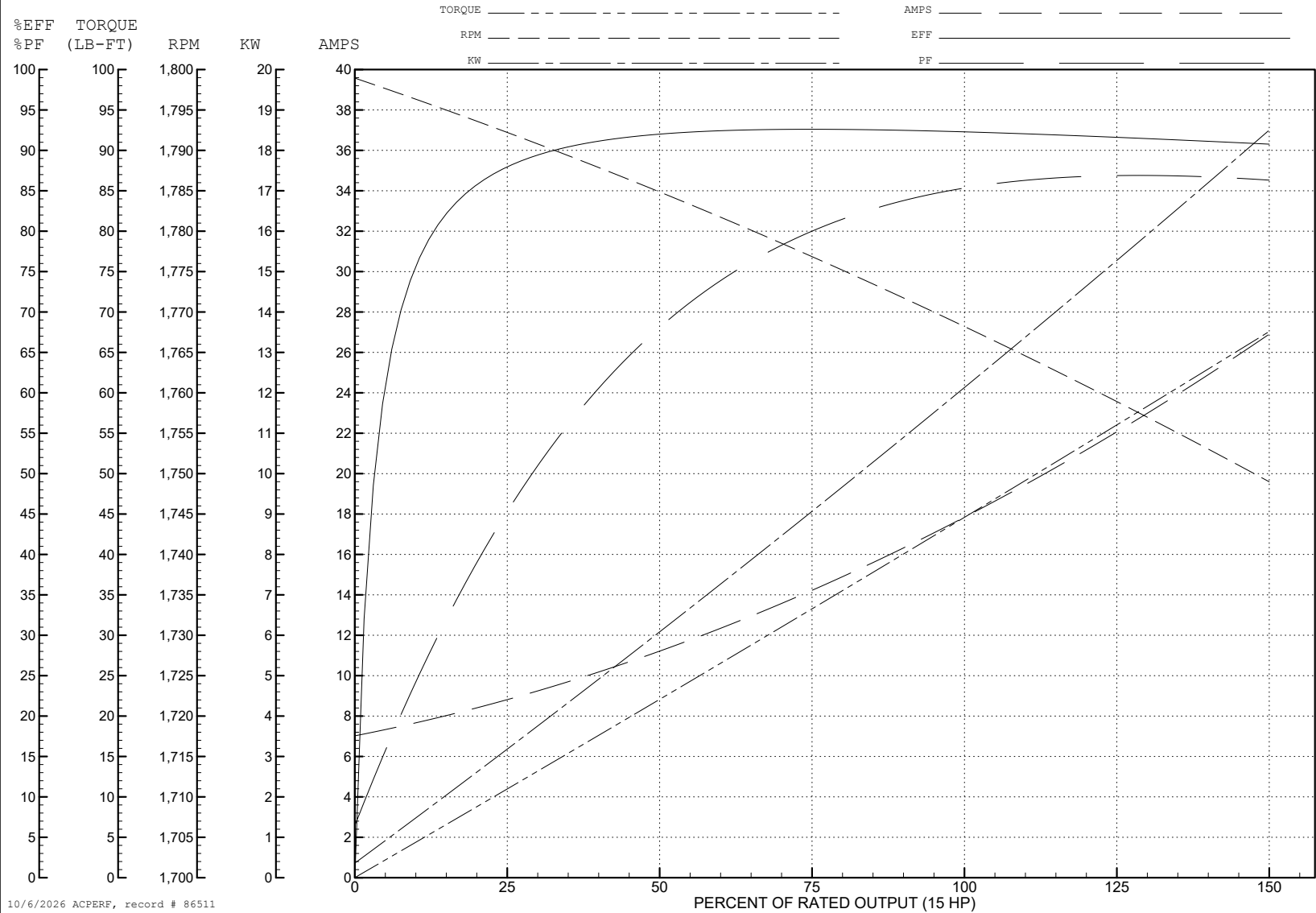
ABB Motors and Mechanical Inc.

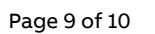
WINDING # 09WGT597

Typical performance - not guaranteed values.

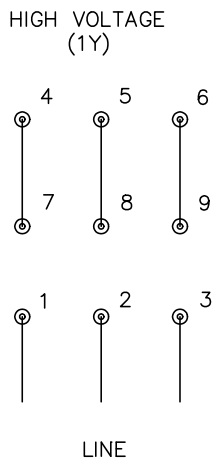
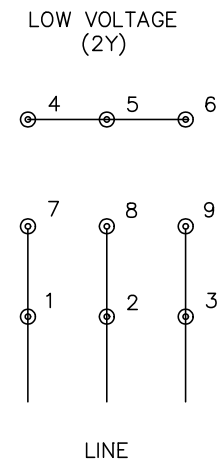
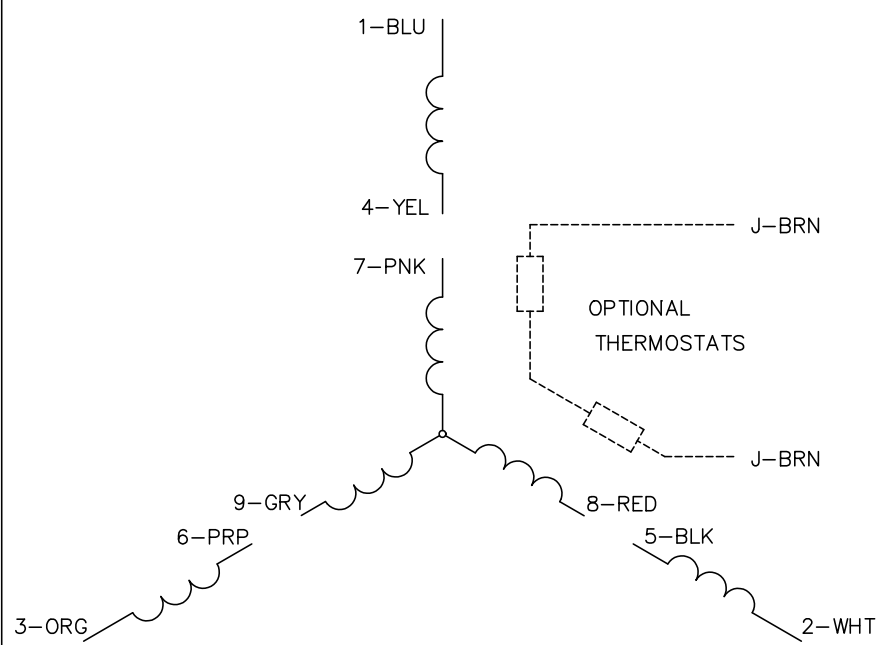
15 HP 3 PH 60 HZ 1765 RPM 460 V 0944M

TORQUES (LB-FT): PO=154 PU=67.2 LR=83.5 LRA=129





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.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005