

ABB BALDOR RELIANCE III

Customer information packet

ECP2334T-5

20HP, 1770RPM, 3PH, 60HZ, 256T, 0960M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	256T
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 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	1.0
Current @ Voltage	19.200 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	R
Type	AC
Mech. spec.	09J371
Base	
Status	PRD/A
Elec. spec.	09WGT507
Layout	09LYJ371
Eff. date	09-16-2025
CD Diagram	CD0006
Poles	04
Leads	3#10
Proprietary	False
Created date	11-27-2017

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	19.2 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.78 IN
Power Factor	83
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	1770 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 #		ECP2334T-5					SER				CC		010A										
SPEC		09J371T507G1					RATING		40C AMB-CONT														
HZ		VOLTS			AMPS			RPM		HP		CODE		SF		DES		PF		NEMA NOM. EFF			
60		575			19.2			1770		20		J		1.15		A		83 %		93 %			
																		% %					
PH		3	CL		F	MAX RPM		2700	MAX CORR KVAR			5.32	USABLE AT 208V					N/A					
IP55			FR		256T		ENCL		TEFC		DE BRG		6309		ODE BRG			6309					
GREASE			POLYREX EM												MTR WT			325		LBS			
USABLE AT			N/A																				
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		1.0-60		HZ		60:1		VT		0-60		HZ		1000:1	
SPACE HEATER LEADS H1-H2:										TIE LIKE NUMBERS					TOGETHER								
V				A				W				MAX SPACE HEATER TEMP											

AC Induction Motor Performance Data

Record # 68095

Typical performance - not guaranteed values

Winding: 09WGT507-R006			Type: 0960M		Enclosure: TEFC			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		20	Full Load Torque		59.29 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		19.2	Breakdown Torque		231 LB-FT			
R.P.M.		1770	Pull-up Torque		126 LB-FT			
Hz	60 Phase	3	Locked-rotor Torque		140 LB-FT			
NEMA Design Code		A	KVA Code	J	Starting Current		158 A	
Service Factor (S.F.)		1.15	No-load Current		8.28 A			
NEMA Nom. Eff.		93	Power Factor		83	Line-line Res. @ 25°C		0.499 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		58°C	
S.F. Amps					Temp. Rise @ S.F. Load		69°C	
					Locked-rotor Power Factor		26.5	
					Rotor inertia		2.65 LB-FT2	

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	78	83	86	87	85
Efficiency	89.2	93	93.7	93.5	93.1	92.4	93.3
Speed	1793	1786	1779	1772	1764	1755	1767
Line amperes	9.41	11.99	15.34	19.19	23.44	27.92	21.7

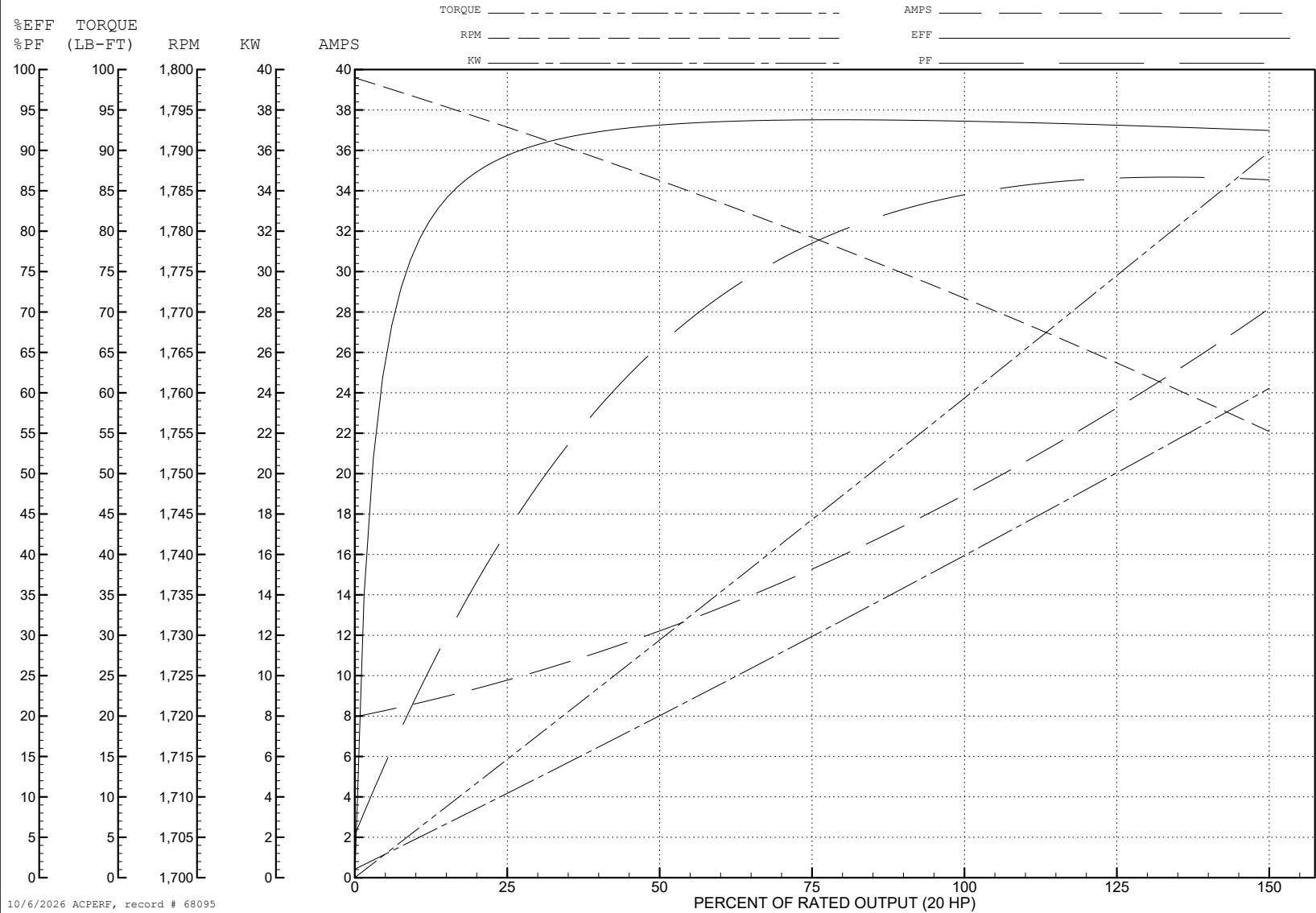
ABB Motors and Mechanical Inc.

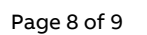
WINDING # 09WGT507

Typical performance - not guaranteed values.

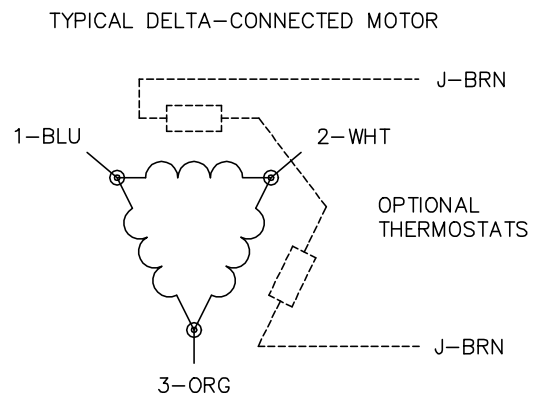
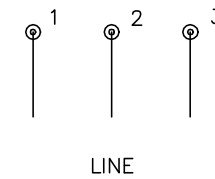
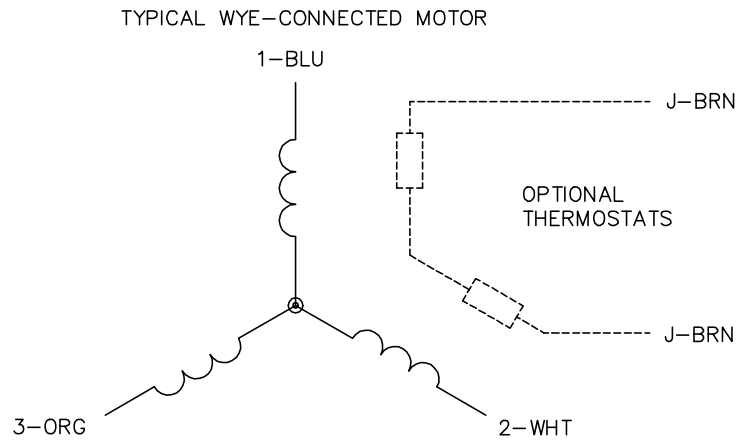
20 HP 3 PH 60 HZ 1770 RPM 575 V 0960M

TORQUES (LB-FT): PO=231 PU=126 LR=140 LRA=158





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

SH 1 of 1