

ABB BALDOR RELIANCE III

Customer information packet

ECP2401T-4

7.5HP, 880RPM, 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	CL I GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 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	1.3
Current @ Voltage	12.100 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	S
Type	AC
Mech. spec.	09J371
Base	
Status	PRD/A
Elec. spec.	09WGT416
Layout	09LYJ371
Eff. date	09-16-2025
CD Diagram	CD0006
Poles	08
Leads	3#12
Proprietary	False
Created date	02-03-2017

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	12.1 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1350 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	24.78 IN
Power Factor	67
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	880 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 #		ECP2401T-4					SER				CC		010A										
SPEC		09J371T416G1					RATING		40C AMB-CONT														
HZ		VOLTS			AMPS			RPM		HP		CODE		SF		DES		PF		NEMA NOM. EFF			
60		460			12.1			880		7.5		J		1.15		A		67 %		86.5 %			
																		% %					
PH		3	CL		F	MAX RPM		1350	MAX CORR KVAR			5.09		USABLE AT 208V				N/A					
IP55				FR		256T		ENCL		TEFC		DE BRG		6309		ODE BRG		6309					
GREASE		POLYREX EM												MTR WT		347		LBS					
USABLE AT		50HZ 5HP 380V 10.5A												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		1.3-60		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											

AC Induction Motor Performance Data

Record # 62356

Typical performance - not guaranteed values

Winding: 09WGT416-R001				Type: 0960M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		7.5		Full Load Torque		44.3 LB-FT	
Volts		460		Start Configuration		direct on line	
Full Load Amps		12.1		Breakdown Torque		105 LB-FT	
R.P.M.		880		Pull-up Torque		58 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		A		KVA Code		J	
Service Factor (S.F.)		1.15		Starting Current		68.6 A	
NEMA Nom. Eff.		86.5		Power Factor		67	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps						Temp. Rise @ S.F. Load	
						Locked-rotor Power Factor	

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	30	49	60	67	70	72	69
Efficiency	80.8	86.8	87.4	86.6	85	82.9	85.6
Speed	896.4	892	887.4	882.3	875.8	868.3	878
Line amperes	7.16	8.42	10.1	12.1	14.7	17.6	13.7

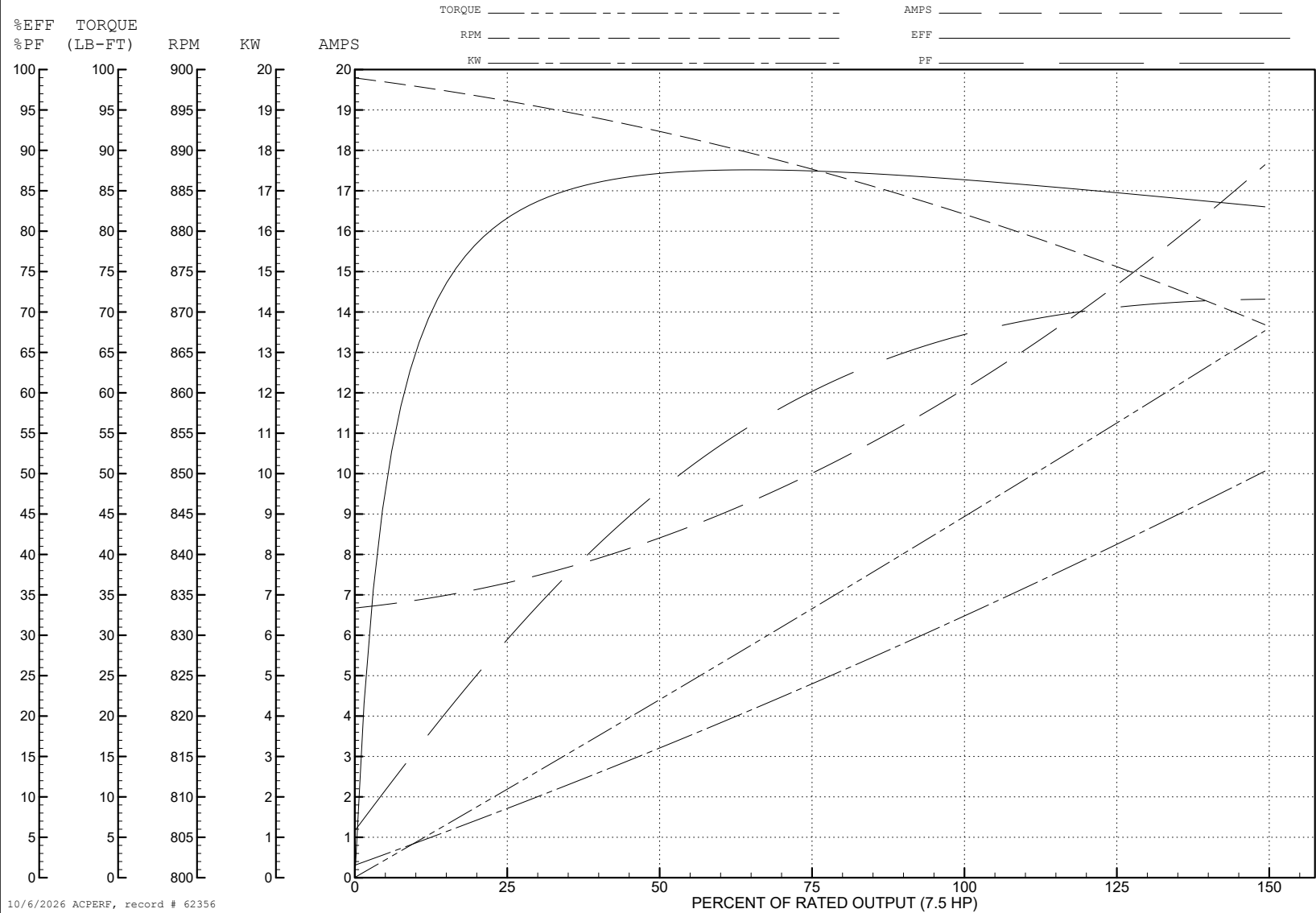
ABB Motors and Mechanical Inc.

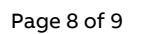
WINDING # 09WGT416

Typical performance - not guaranteed values.

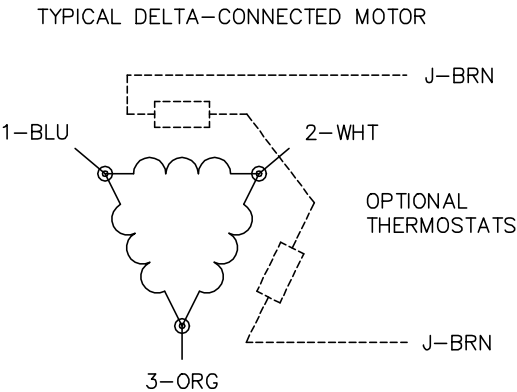
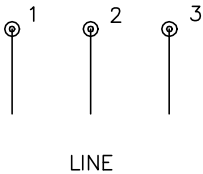
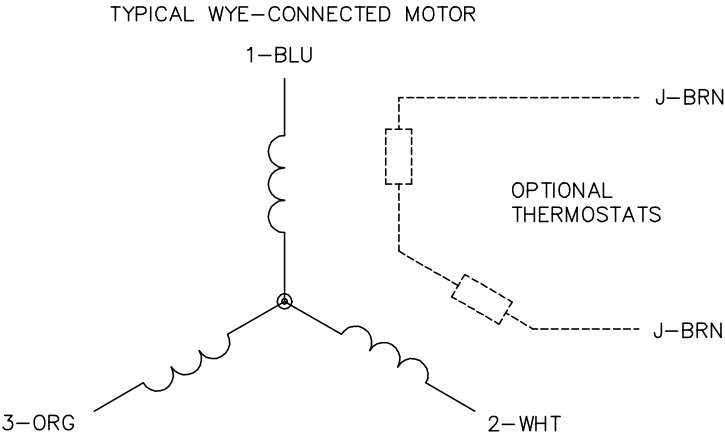
7.5 HP 3 PH 60 HZ 880 RPM 460 V 0960M

TORQUES (LB-FT): PO=105 PU=58 LR=95.1 LRA=68.6





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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