

# **ABB BALDOR RELIANCE III**



## **Customer information packet**

ECP4106T-4

20HP, 3540RPM, 3PH, 60HZ, 256T, 0944M, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	256T
<b>Frame Material</b>	Iron
<b>Frequency</b>	60.00 Hz
<b>Haz Area Class and Group</b>	CLI GP A,B,C,D
<b>Haz Area Division</b>	Division II
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	20.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	3600 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	460.0 V @ 60 HZ
<b>Agency Approvals</b>	CSA EEV NEMA PREMIUM NEMA_PREMIUM UR CCSA US
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Auxiliary Box Lead Termination</b>	None
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Blower</b>	None
<b>Constant Torque Speed Range</b>	6
<b>Current @ Voltage</b>	23.000 A @ 460.0 V
<b>Design Code</b>	A
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	92.4 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Enclosure Modification</b>	Severe Duty Features
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Face Code</b>	Standard

**Part Detail**

<b>Revision</b>	AX
<b>Type</b>	AC
<b>Mech. spec.</b>	09J371
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	09WGY640
<b>Layout</b>	09LYJ371
<b>Eff. date</b>	09-12-2024
<b>CD Diagram</b>	CD0006
<b>Poles</b>	02
<b>Leads</b>	3#10
<b>Proprietary</b>	False
<b>Created date</b>	08-29-2010

<b>Front Shaft Indicator</b>	None
<b>Haz Area Temp Code</b>	T3
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	23.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	5400 rpm
<b>Motor Lead Exit</b>	Ko Box
<b>Motor Lead Quantity/Wire Size</b>	3 @ 10 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	0944M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	24.78 IN
<b>Power Factor</b>	89
<b>Product Family</b>	Super-E Chemical Processing
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.625 IN
<b>Shaft Extension Location</b>	Pulley End
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	Shaft Slinger
<b>Speed</b>	3540 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None

<b>Thermal Device - Winding</b>	<b>None</b>
<b>Vibration Sensor Indicator</b>	<b>No Vibration Sensor</b>
<b>Winding Thermal 1</b>	<b>None</b>
<b>Winding Thermal 2</b>	<b>None</b>

**Nameplate**

**NP3995ABBL**

<b>CAT #</b>	ECP4106T-4		<b>SER</b>		<b>CC</b>	010A						
<b>SPEC</b>	09J371Y640G1		<b>RATING</b>	40C AMB-CONT								
<b>HZ</b>	<b>VOLTS</b>		<b>AMPS</b>	<b>RPM</b>	<b>HP</b>	<b>CODE</b>	<b>SF</b>	<b>DES</b>	<b>PF</b>	<b>NEMA NOM. EFF</b>		
60	460		23	3540	20	J	1.15	A	89	%	92.4	
										%	%	
<b>PH</b>	3	<b>CL</b>	F	<b>MAX RPM</b>	5400	<b>MAX CORR KVAR</b>		<b>USABLE AT 208V</b>	N/A			
<b>IP55</b>		<b>FR</b>	256T	<b>ENCL</b>	TEFC	<b>DE BRG</b>	6309	<b>ODE BRG</b>	6309			
<b>GREASE</b>	POLYREX EM				<b>MTR WT</b>	328	<b>LBS</b>					
<b>USABLE AT</b>	50HZ 15HP 380V 21A											
<b>CL I DIV 2 GRPS A,B,C,D</b>				<b>CL I ZONE 2 GRPS</b>			<b>IIA,IIB,IIC</b>		<b>TEMP T</b>	200	<b>C</b>	
<b>1.0 SF ON PWM INVERTER</b>				<b>POWER</b>	<b>INV TEMP CL</b>	200	<b>C</b>					
<b>CHP</b>	60-90	<b>HZ</b>	1.5:1	<b>CT</b>	6-60	<b>HZ</b>	10:1	<b>VT</b>	3-60	<b>HZ</b>	20:1	
<b>SPACE HEATER LEADS H1-H2:</b>				<b>TIE LIKE NUMBERS</b>			<b>TOGETHER</b>					
<b>V</b>		<b>A</b>		<b>W</b>		<b>MAX SPACE HEATER TEMP</b>						

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
09-1309	C FACE KIT	A8

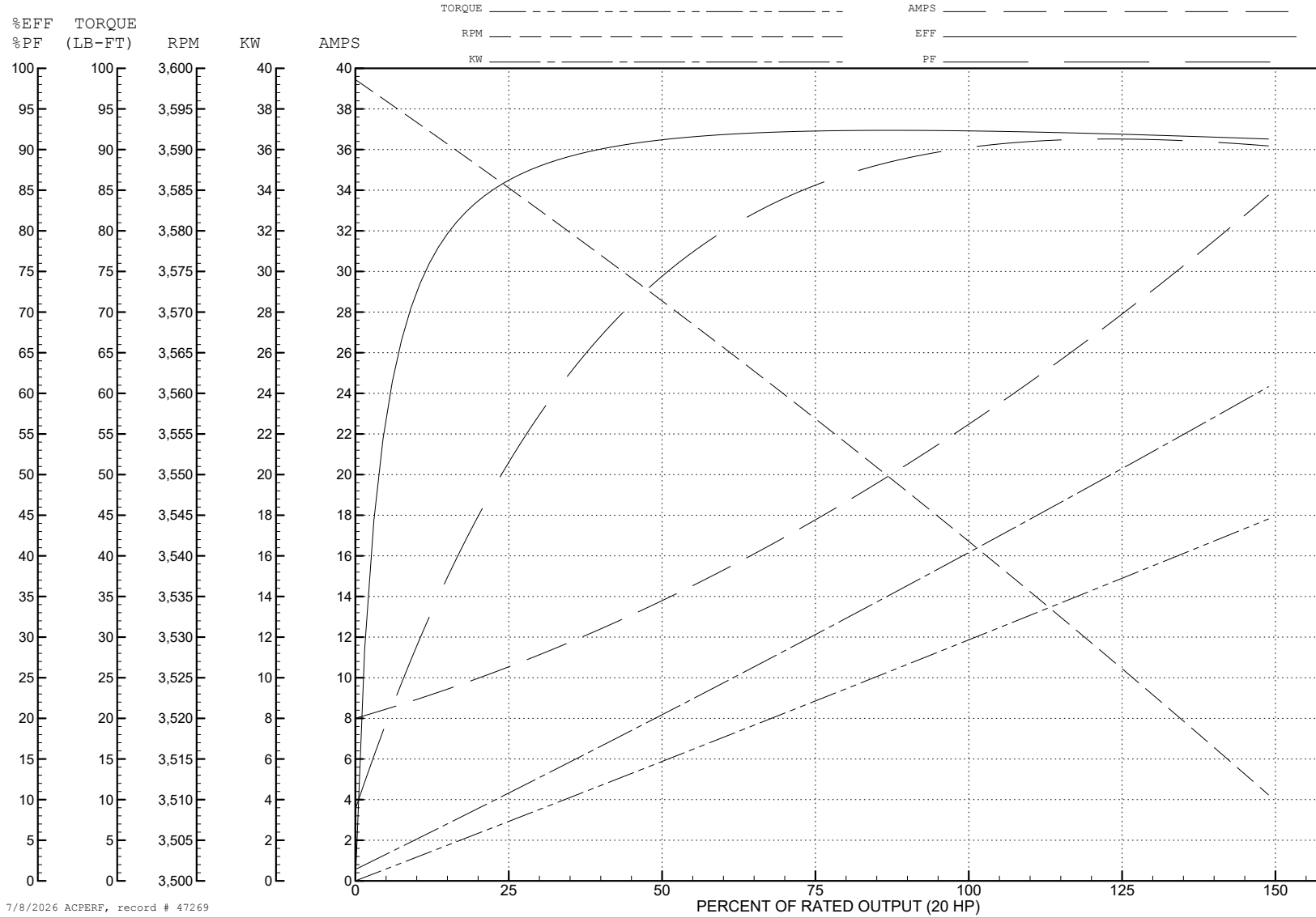
ABB Motors and Mechanical Inc.

WINDING # 09WGY640

Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 3540 RPM 460 V 0944M

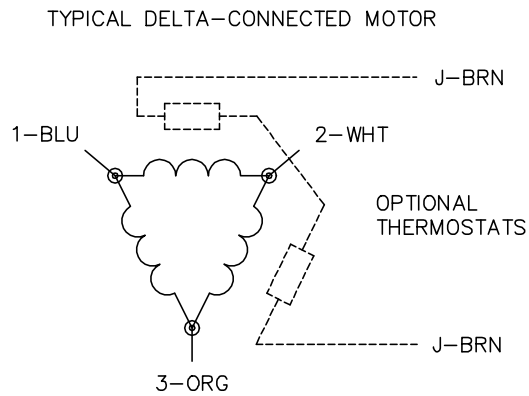
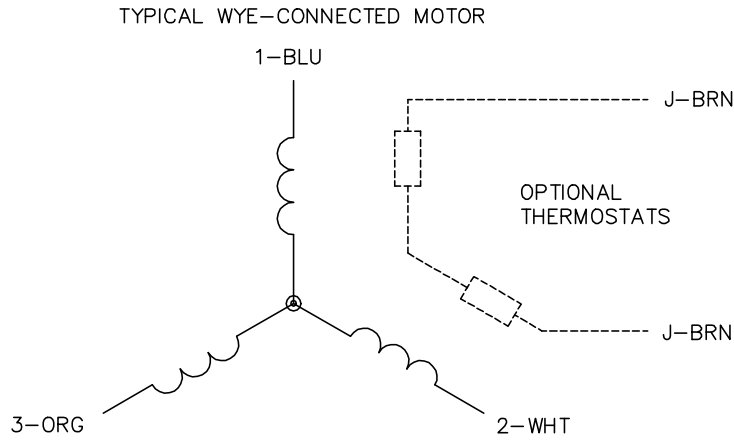
TORQUES (LB-FT): PO=159 PU=51 LR=74 LRA=201



7/8/2026 ACPERF, record # 47269



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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