

# **ABB BALDOR RELIANCE III**

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## **Customer information packet**

ECP4109T-4

40HP, 3540RPM, 3PH, 60HZ, 324TS, 1244M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	324TS
<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>	40.000 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>	46.000 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>	93.0 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Face Code</b>	Standard
<b>Front Shaft Indicator</b>	None

**Part Detail**

<b>Revision</b>	Q
<b>Type</b>	AC
<b>Mech. spec.</b>	12G154
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	12WGY192
<b>Layout</b>	12LYG154
<b>Eff. date</b>	11-03-2025
<b>CD Diagram</b>	CD0006
<b>Poles</b>	02
<b>Leads</b>	3#8
<b>Proprietary</b>	False
<b>Created date</b>	01-27-2015

<b>Haz Area Temp Code</b>	T3
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	46.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	H
<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 @ 8 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	1244M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	2
<b>Overall Length</b>	29.15 IN
<b>Power Factor</b>	88
<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>RoHS Status</b>	ROHS NON-COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.875 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**

**NP3241**

<b>CAT.NO.</b>	ECP4109T-4	<b>P/N</b>		<b>ENCLOSURE</b>	TEFC
<b>SPEC.</b>	12G154Y192G2	<b>CC</b>	010A	<b>FRAME</b>	324TS
<b>HP</b>	40	<b>CLASS</b>	F	<b>HZ</b>	60
<b>RPM</b>	3540	<b>RPM MAX</b>	5400	<b>PH</b>	3
<b>VOLT</b>	460	<b>MOTOR WEIGHT</b>	635	<b>ODE BRG</b>	6312
<b>AMP</b>	46	<b>SER.F.</b>	1.15	<b>PF</b>	88
<b>RATING</b>	40C AMB-CONT	<b>NEMA-NOM-EFF</b>	93	<b>GREASE</b>	POLYREX EM
				<b>INV.TYPE</b>	PWM
<b>TEMP CODE</b>	T3	<b>INVERTER-TEMP-CODE</b>	200		
<b>TEMP =</b>	200	<b>C HP FR</b>	60	<b>C HP TO</b>	90
<b>CT HZ FROM</b>	6	<b>CT HZ TO</b>	60		
<b>HTR-VOLTS</b>		<b>HTR-AMPS</b>		<b>HTR-WATTS</b>	
				<b>MAX. SPACE HEATER TEMP.</b>	
				<b>VT HZ FROM</b>	3
				<b>VT HZ TO</b>	60

**Accessories**

<b>Part number</b>	<b>Description</b>	<b>Multiplier</b>
12-1105ECP	C FACE KIT (C-FACE SWAP FOR ECP MOTOR)	A8

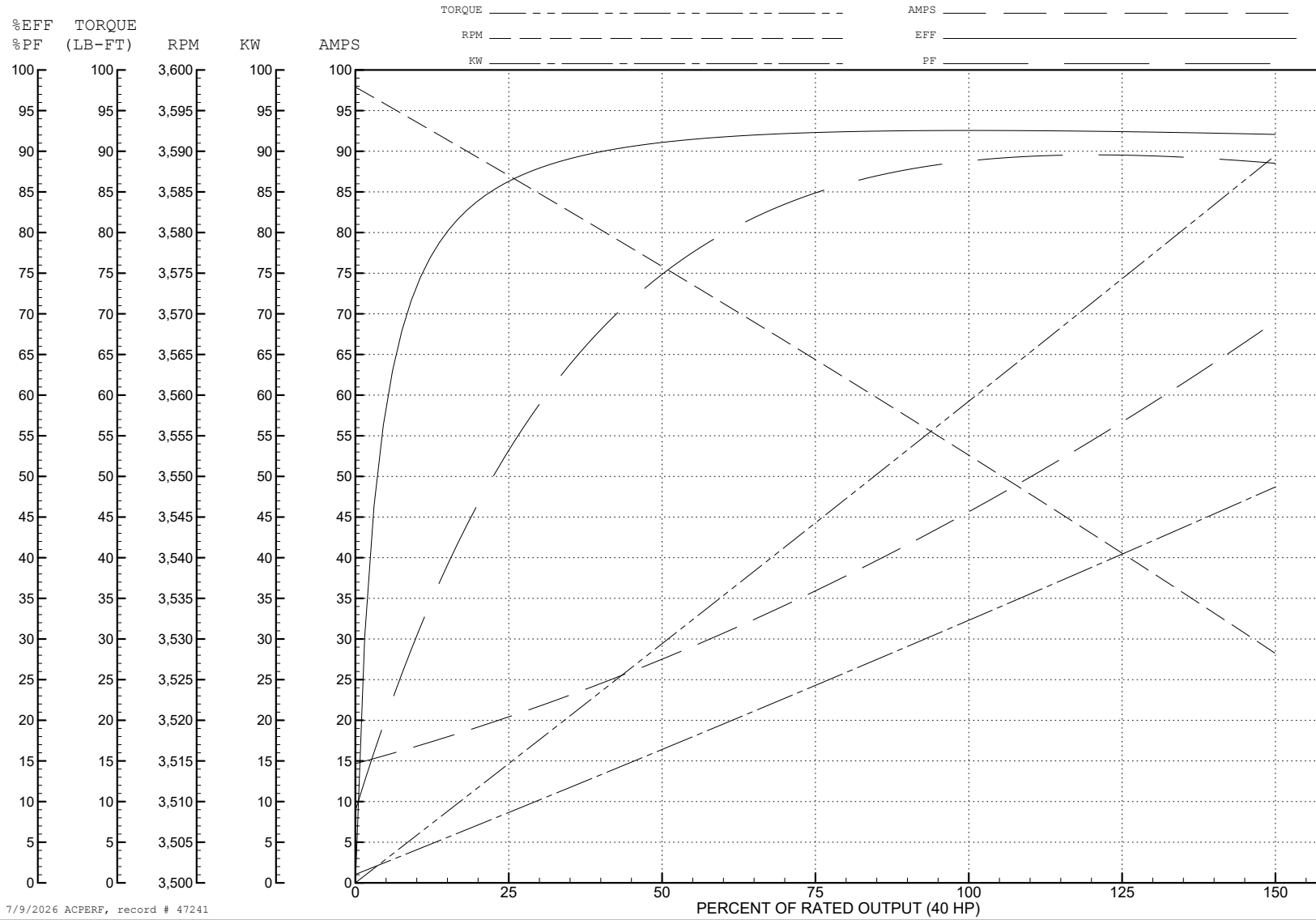
ABB Motors and Mechanical Inc.

WINDING # 12WGY192

Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 3540 RPM 460 V 1244M

TORQUES (LB-FT): PO=235 PU=84.3 LR=100 LRA=352



7/9/2026 ACPERF, record # 47241



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

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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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