

ABB BALDOR RELIANCE III

Customer information packet

ECP84109T-4

40HP, 3545RPM, 3PH, 60HZ, 324TS, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	324TS
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	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 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
Constant Torque Speed Range	1.2
Current @ Voltage	44.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY667
Layout	12LYF808
Eff. date	11-03-2025
CD Diagram	CD0006
Poles	02
Leads	3#8
Proprietary	False
Created date	12-11-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	44.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1256M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	29.24 IN
Power Factor	91
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3545 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

NP4332

CAT.NO.	ECP84109T-4	P/N		ENCLOSURE	TEFC
SPEC.	12-0000-0363	CC	010A	FRAME	324TS
HP	40	CLASS	F	HZ	60
RPM	3545	RPM MAX	5400	ODE BRG	6312
VOLT	460	PH	3	DE BRG	6312
AMP	44	DES	B	D.E. BRG.	60BC03X30X
RATING	40C AMB-CONT	PH	3	D.E. BRG.	60BC03X30X
NEMA-NOM-EFF	92.4	KVA-CODE	G	O.D.E. BRG.	60BC03X30X
G.MIN.EFF	91	MOTOR WEIGHT	626	GREASE	POLYREX EM
TEMP CODE	T3	MAX. KVAR	4	BLANK	
TEMP =	200	SER.F.	1.15	IP	56
CT HZ FROM	1.2	# OF ROTOR BARS	28	INV.TYPE	PWM
HTR-VOLTS		# OF STATOR SLOTS	36	PF	91
HTR-AMPS		INVERTER-TEMP-CODE	200		
HTR-WATTS		C HP FR	60	C HP TO	90
MAX. SPACE HEATER TEMP.		CT HZ TO	60		
VT HZ FROM	0-			VT HZ TO	60

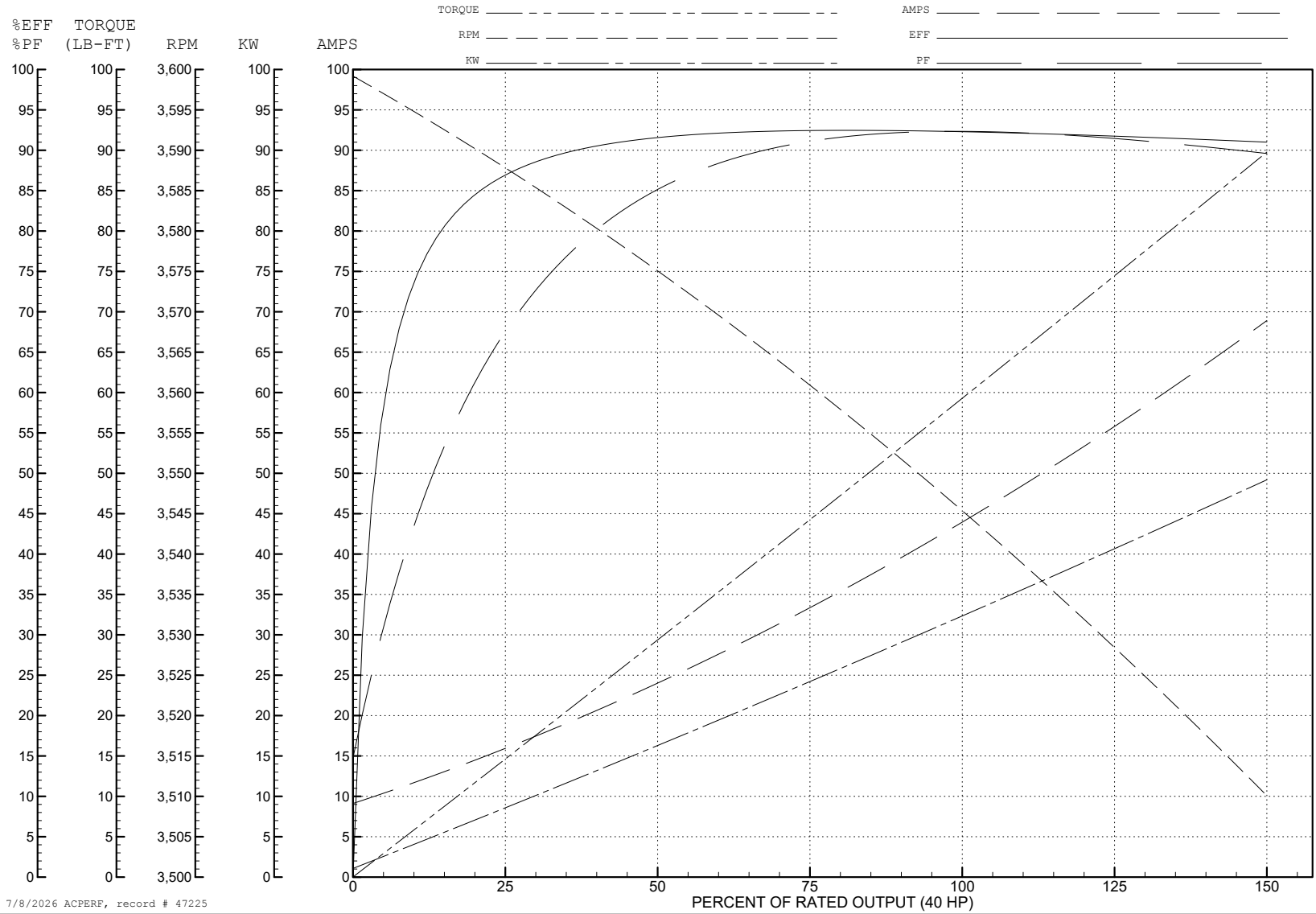
ABB Motors and Mechanical Inc.

WINDING # 12WGY667

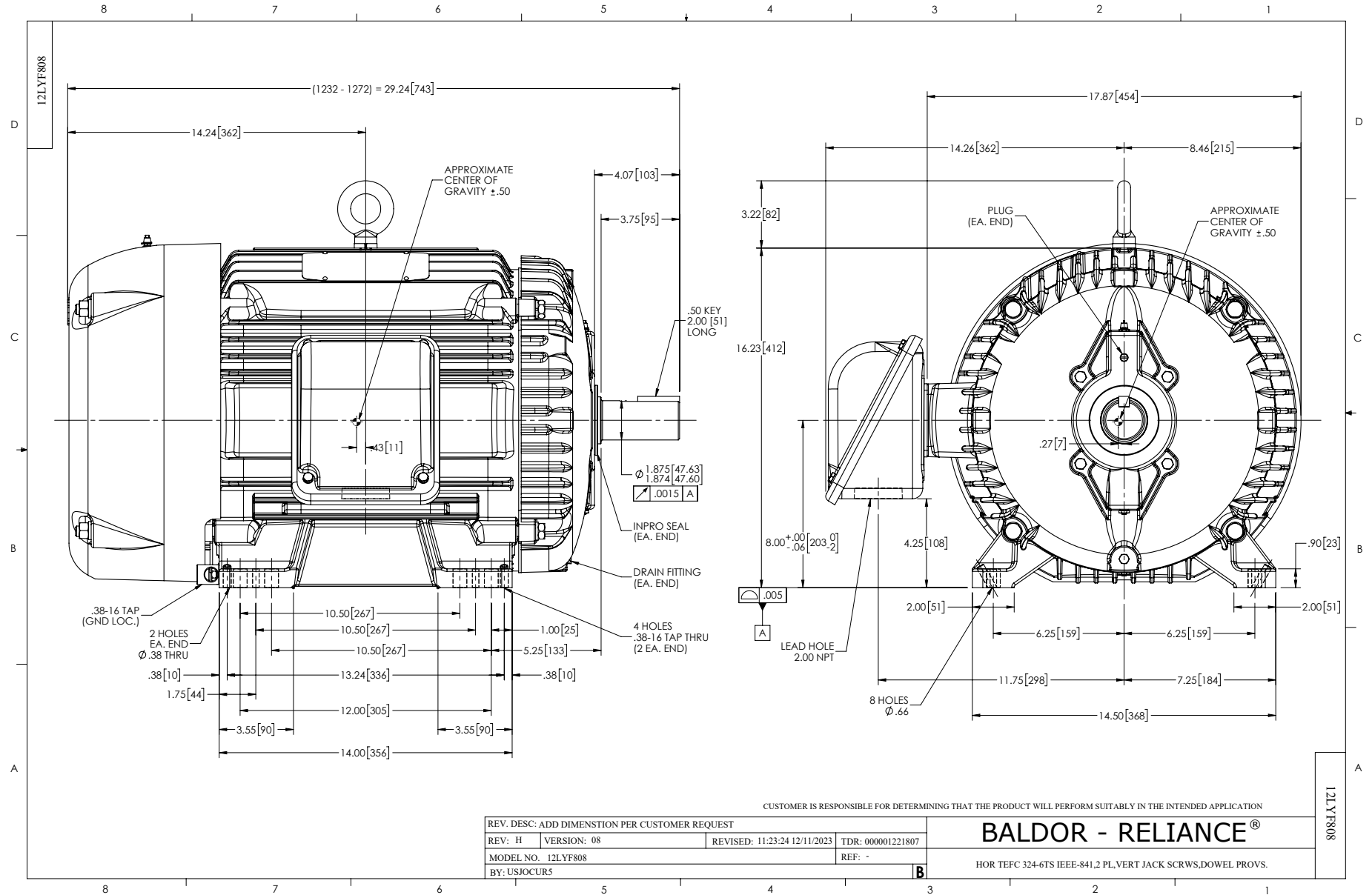
Typical performance - not guaranteed values.

40 HP 3 PH 60 HZ 3545 RPM 460 V 1256M

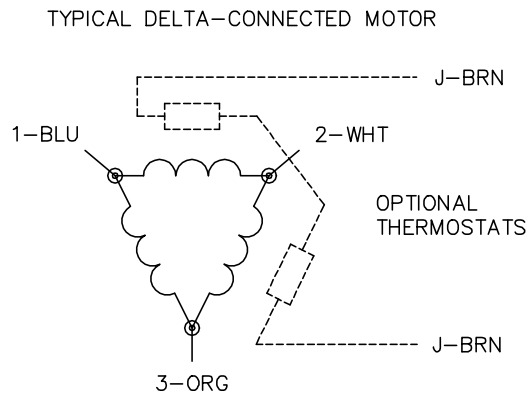
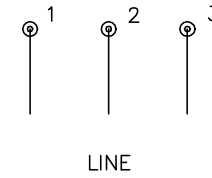
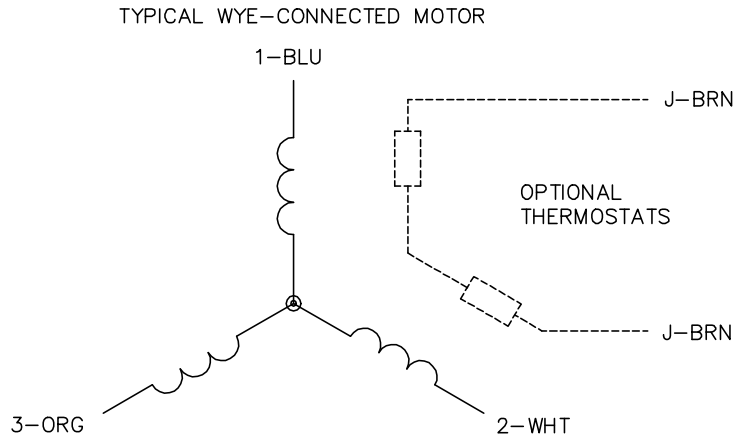
TORQUES (LB-FT): PO=194 PU=63.8 LR=80.9 LRA=284



7/8/2026 ACPERF, record # 47225



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		
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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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