

ABB BALDOR RELIANCE III

Customer information packet

ECP4107T-4

25HP, 3520RPM, 3PH, 60HZ, 284TS, 1048M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	284TS
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	25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	28.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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.	10H423
Base	
Status	PRD/A
Elec. spec.	10WGZ242
Layout	10LYH423
Eff. date	09-29-2025
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	12-12-2014

Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.63 IN
Power Factor	90
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	3520 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

NP3241																		
CAT.NO.	ECP4107T-4			P/N						ENCLOSURE		TEFC						
SPEC.	10H423Z242G3		CC	010A	FRAME	284TS		S/N										
HP	25			CLASS	F	HZ	60	DES	B									
RPM	3520			RPM MAX		5400		PH	3	KVA-CODE		F						
VOLT	460			MOTOR WEIGHT				342										
AMP	28			SER.F.	1.15		PF	90	ODE BRG		6311	DE BRG		6311				
RATING	40C AMB-CONT			NEMA-NOM-EFF				91.7		GREASE		POLYREX EM						
						INV.TYPE				PWM								
TEMP CODE	T3	INVERTER-TEMP-CODE				200												
TEMP =	200	C HP FR	60	C HP TO		90												
CT HZ FROM	1.3	CT HZ TO		60														
HTR-VOLTS		HTR-AMPS			HTR-WATTS			MAX. SPACE HEATER TEMP.					VT HZ FROM		0-	VT HZ TO		60

AC Induction Motor Performance Data

Record # 47223

Typical performance - not guaranteed values

Winding: 10WGZ242-R004			Type: 1048M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		25	Full Load Torque		37.3 LB-FT		
Volts		460	Start Configuration		direct on line		
Full Load Amps		28	Breakdown Torque		103 LB-FT		
R.P.M.		3520	Pull-up Torque		42.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		54 LB-FT	
NEMA Design Code		B	KVA Code	F	Starting Current		171 A
Service Factor (S.F.)		1.15	No-load Current		6.99 A		
NEMA Nom. Eff.		91.7	Power Factor	90	Line-line Res. @ 25°C		0.29072 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		57°C
S.F. Amps			Temp. Rise @ S.F. Load		70°C		
			Locked-rotor Power Factor		23.3		

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	69	83	89	90	90	90	90
Efficiency	87.8	91.6	92.2	91.8	90.9	89.7	91.3
Speed	3580.1	3563.2	3542.7	3521.3	3497	3469.9	3507
Line amperes	10.1	15.4	21.7	28.3	35.7	43.5	32.7

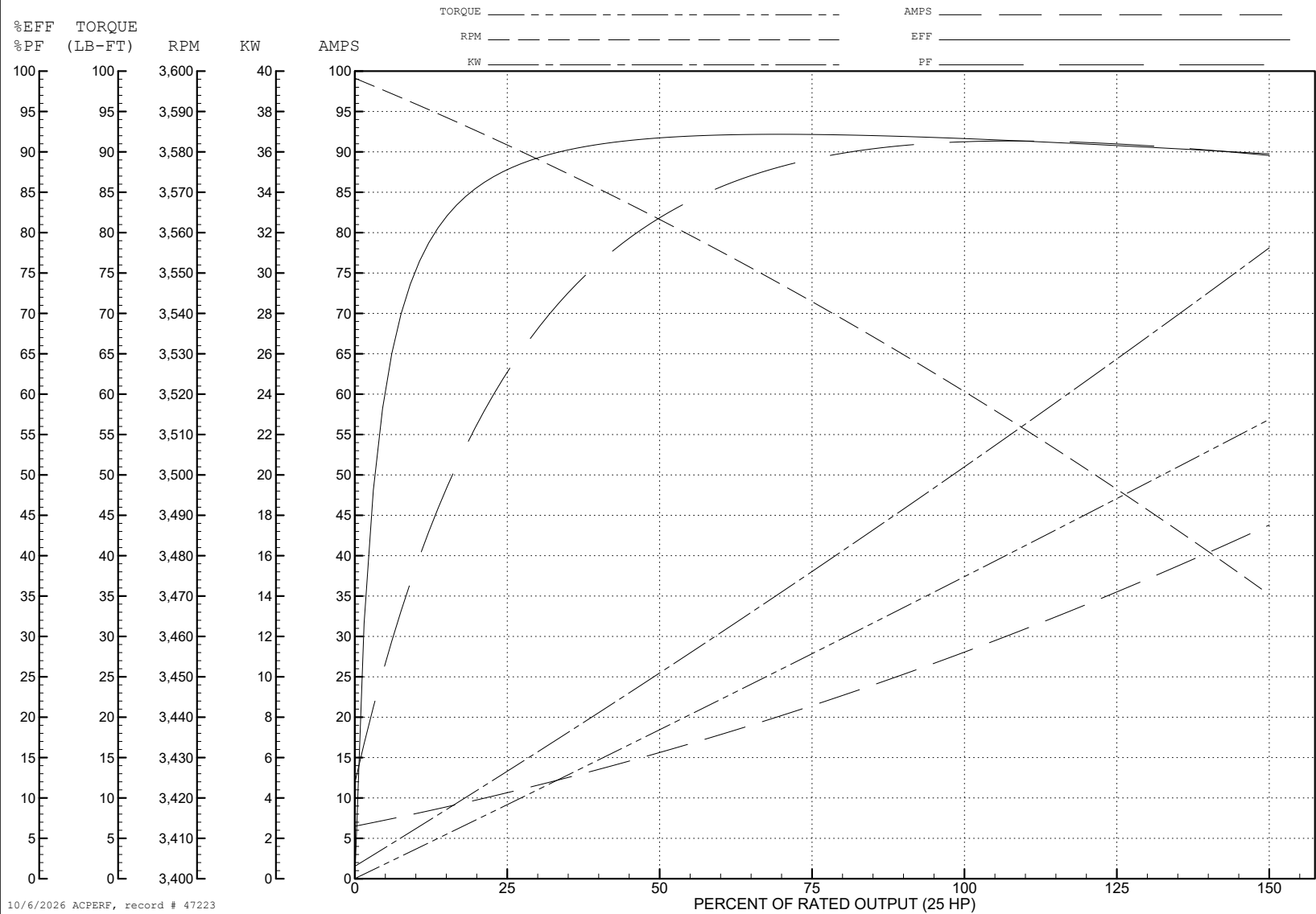
ABB Motors and Mechanical Inc.

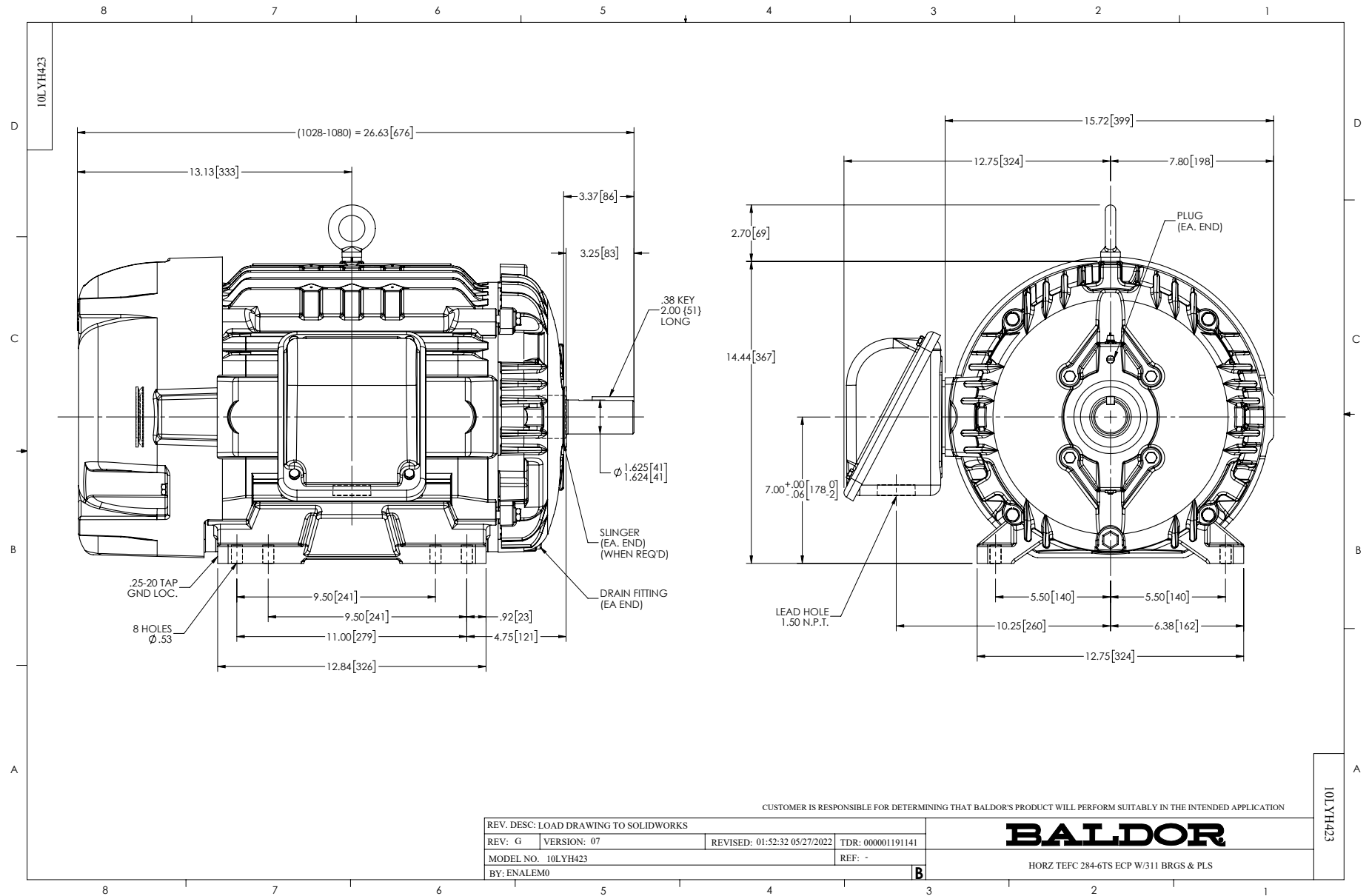
WINDING # 10WGZ242

Typical performance - not guaranteed values.

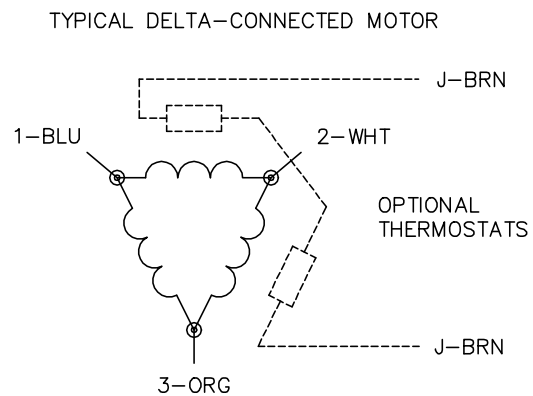
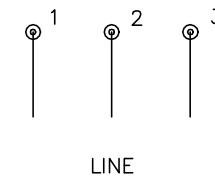
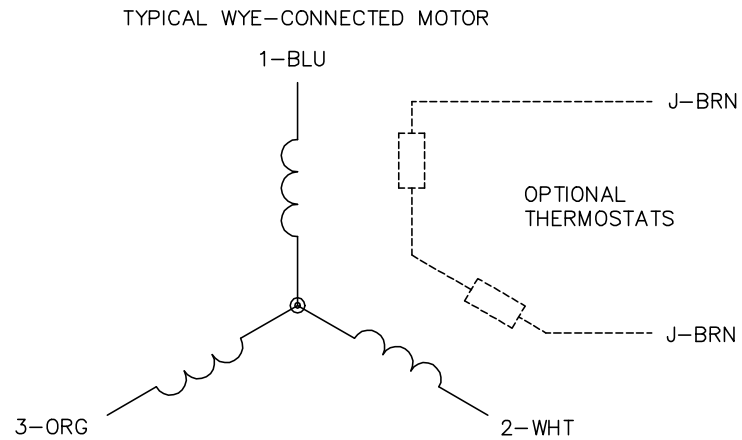
25 HP 3 PH 60 HZ 3520 RPM 460 V 1048M

TORQUES (LB-FT): PO=103 PU=42.1 LR=54 LRA=171





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