



Customer information packet

ECP84107T-5

25HP, 3520RPM, 3PH, 60HZ, 284TS, TEFC, F1

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	CL I 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	575.0 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	0-
Current @ Voltage	23.000 A @ 575.0 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	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3

Part detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ277
Layout	10LYJ567
Eff. date	11-03-2025
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	12-06-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP56
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.57 IN
Power Factor	90
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
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

NP4332

STK.NO.	ECP84107T-5				P/N		ENCLOSURE			TEFC				
SPEC.	10-0000-0401			CC	010A	FRAME	284TS		S/N					
HP	25			CLASS	F	HZ	60	ODE BRG	6311	DE BRG	6311			
RPM	3520	RPM MAX	5400	PH	3	DES	B	D.E. BRG.	55BC03X30X					
VOLT	575			KVA-CODE	F		O.D.E. BRG.		55BC03X30X					
AMP	23			MOTOR WEIGHT			506	GREASE	POLYREX EM					
RATING	40C AMB-CONT				MAX. KVAR		3.2	BLANK						
NEMA-NOM-EFF	91.7	# OF ROTOR BARS			28	SER.F.	1.15	IP	56					
G.MIN.EFF	90.2	# OF STATOR SLOTS			36	PF	90	INV.TYPE	PWM					
TEMP CODE	T3C	INVERTER-TEMP-CODE			200									
TEMP =	160	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 # 76617

Typical performance - not guaranteed values

Winding: 10WGZ277-R002				Type: 1048M		Enclosure: TEFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		25		Full Load Torque		37.3 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		23		Breakdown Torque		132 LB-FT		
R.P.M.		3520		Pull-up Torque		62.7 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		69.7 LB-FT		
NEMA Design Code		B		KVA Code	F	Starting Current		143 A
Service Factor (S.F.)		1.15		No-load Current		5.8 A		
NEMA Nom. Eff.		91.7	Power Factor	90	Line-line Res. @ 25°C		0.42567 Ω	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		64°C		
S.F. Amps				Temp. Rise @ S.F. Load		79°C		
				Locked-rotor Power Factor		23.2		

Load Characteristics 575 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	65	83	88	90	90	90	90
Efficiency	88.7	92.3	92.7	92.2	91.3	90.1	91.7
Speed	3578.8	3560.6	3540.8	3519.1	3495.4	3468.2	3505
Line amperes	8.04	12.2	17.2	22.5	28.3	34.6	26

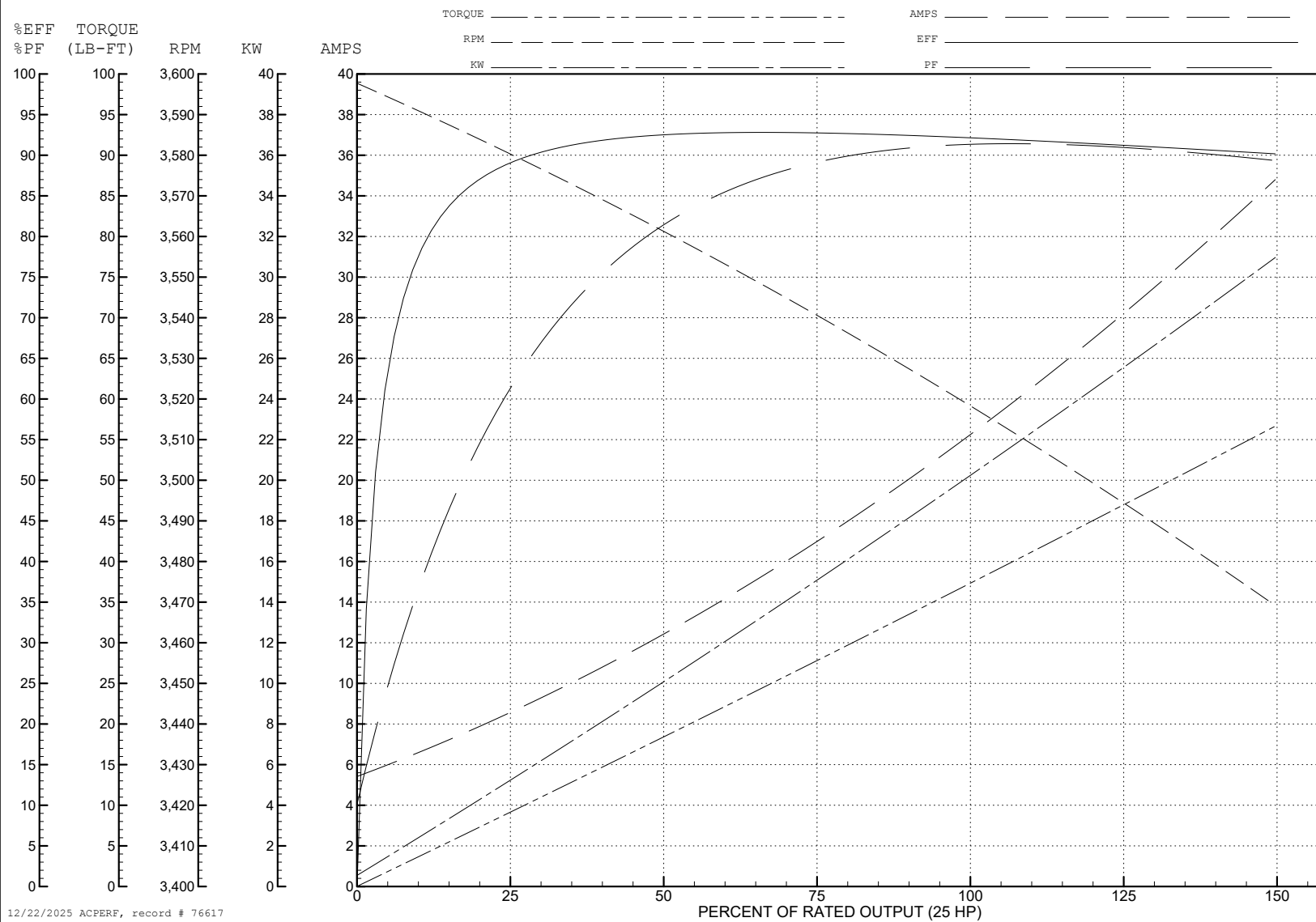
ABB Motors and Mechanical Inc.

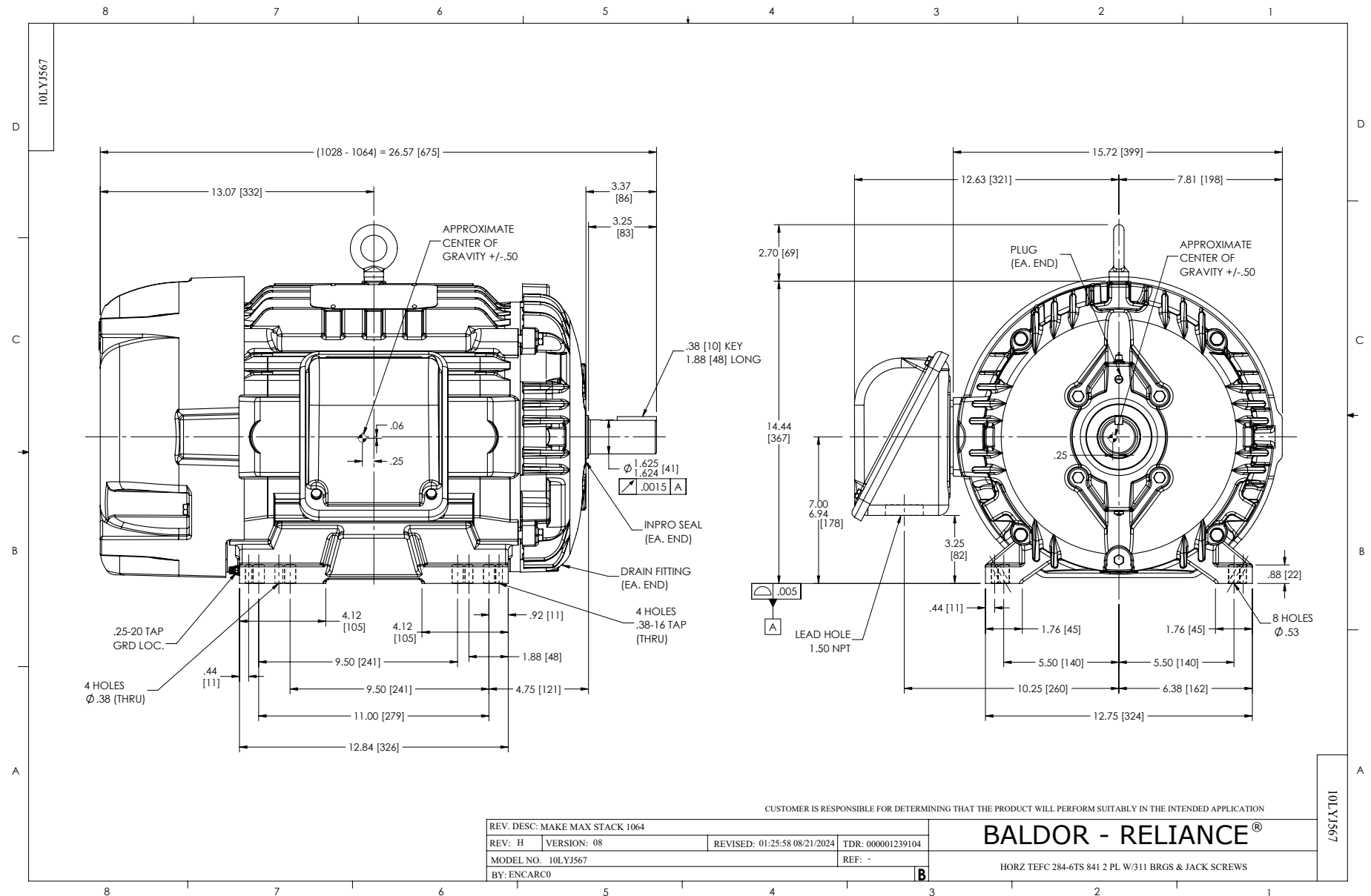
WINDING # 10WGZ277

Typical performance - not guaranteed values.

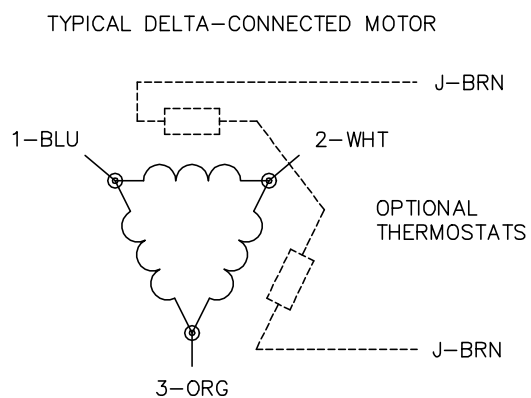
25 HP 3 PH 60 HZ 3520 RPM 575 V 1048M

TORQUES (LB-FT): PO=132 PU=62.7 LR=69.7 LRA=143





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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