

**BALDOR • RELIANCE**

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# Customer information packet

## ECP84107T-4

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	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	CCSA US CSA EEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary 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	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3

## Part detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ242
Layout	10LYJ567
Eff. date	10-16-2023
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	12-05-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 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**

<b>STK.NO.</b>	ECP84107T-4			<b>P/N</b>				<b>ENCLOSURE</b>	TEFC		
<b>SPEC.</b>	10-0000-0395		<b>CC</b>	010A	<b>FRAME</b>	284TS		<b>S/N</b>			
<b>HP</b>	25			<b>CLASS</b>	F	<b>HZ</b>	60	<b>ODE BRG</b>	6311	<b>DE BRG</b> 6311	
<b>RPM</b>	3520	<b>RPM MAX</b>	5400	<b>PH</b>	3	<b>DES</b>	B	<b>D.E. BRG.</b>	55BC03X30X		
<b>VOLT</b>	460			<b>KVA-CODE</b>	F		<b>O.D.E. BRG.</b>	55BC03X30X			
<b>AMP</b>	28			<b>MOTOR WEIGHT</b>	360		<b>GREASE</b>	POLYREX EM			
<b>RATING</b>	40C AMB-CONT			<b>MAX. KVAR</b>	3.1		<b>BLANK</b>				
<b>NEMA-NOM-EFF</b>	91.7	<b># OF ROTOR BARS</b>	28	<b>SER.F.</b>	1.15	<b>IP</b>	56				
<b>G.MIN.EFF</b>	90.2	<b># OF STATOR SLOTS</b>	36	<b>PF</b>	90	<b>INV.TYPE</b>	PWM				
<b>TEMP CODE</b>	T3C			<b>INVERTER-TEMP-CODE</b>	200						
<b>TEMP =</b>	160	<b>C HP FR</b>	60	<b>C HP TO</b>	90						
<b>CT HZ FROM</b>	1.3	<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>	0-	<b>VT HZ TO</b> 60	

**AC Induction Motor Performance Data**

Record # 47223

Typical performance - not guaranteed values

Winding: 10WGZ242-R004		Type: 1048M	Enclosure: TEFC
<b>Nameplate Data</b>		<b>460 V, 60 Hz: Single Voltage Motor</b>	
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	Locked-rotor Torque	54 LB-FT
NEMA Design Code	B KVA Code	Starting Current	171 A
Service Factor (S.F.)	1.15	No-load Current	6.99 A
NEMA Nom. Eff.	91.7 Power Factor	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

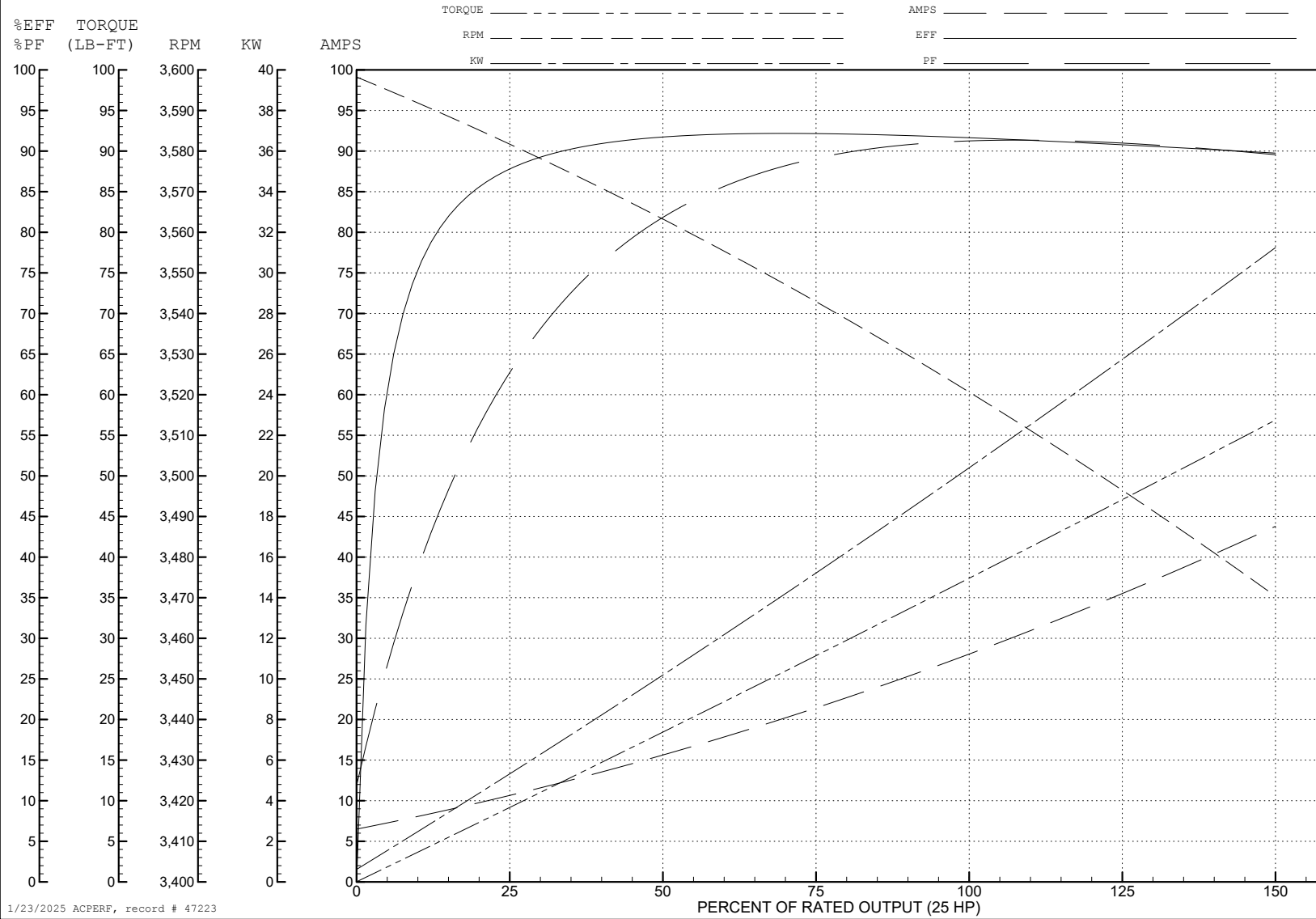
ABB Motors and Mechanical Inc.

WINDING # 10WGZ242

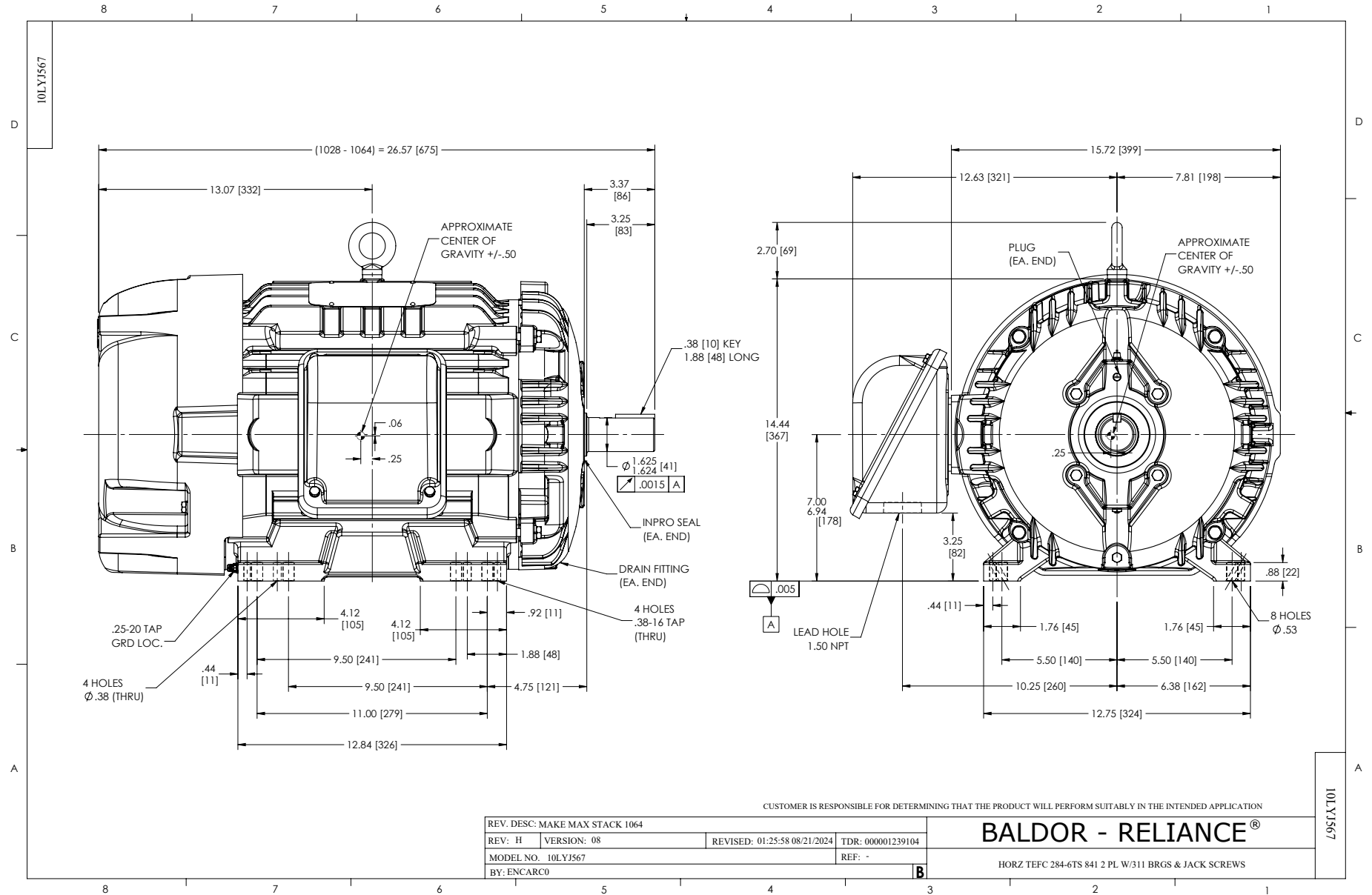
25 HP 3 PH 60 HZ 3520 RPM 460 V 1048M

Typical performance - not guaranteed values.

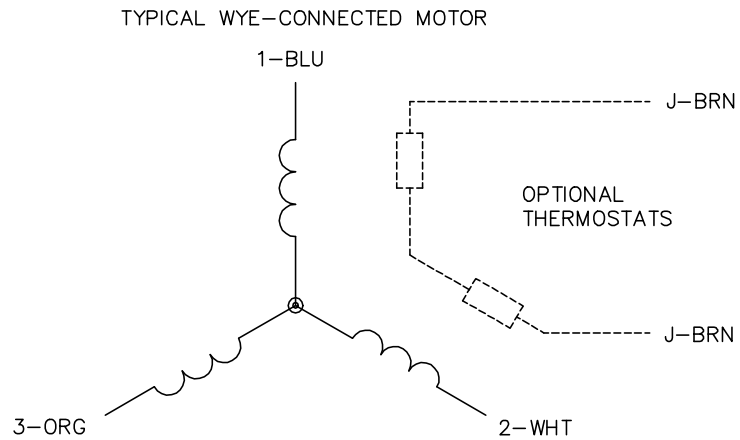
TORQUES (LB-FT): PO=103 PU=42.1 LR=54 LRA=171



1/23/2025 ACPERF, record # 47223



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: -	© □	

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3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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