



Customer information packet

ECP84108T-4

30HP, 3525RPM, 3PH, 60HZ, 286TS, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	286TS
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	30.000 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	1.3
Current @ Voltage	34.000 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	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGZ522
Layout	10LYJ567
Eff. date	09-26-2025
CD Diagram	CD0006
Poles	02
Leads	3#10
Proprietary	False
Created date	12-06-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	34.0 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	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	3525 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.	ECP84108T-4			P/N					ENCLOSURE	TEFC			
SPEC.	10-0000-0397		CC	010A	FRAME	286TS		S/N					
HP	30			CLASS	F	HZ	60	ODE BRG	6311	DE BRG	6311		
RPM	3525	RPM MAX	5400	PH	3	DES	B	D.E. BRG.	55BC03X30X				
VOLT	460			KVA-CODE	G		O.D.E. BRG.	55BC03X30X					
AMP	34			MOTOR WEIGHT			442	GREASE	POLYREX EM				
RATING	40C AMB-CONT			MAX. KVAR			3.7	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	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

Accessories

Part number	Description	Multiplier
10EP1305A129P	PUEP MACH,INPRO,EPOXY (10EP1110A01 SWAP)	P1

AC Induction Motor Performance Data

Record # 93058

Typical performance - not guaranteed values

Winding: 10WGZ522-R001			Type: 1048M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		30	Full Load Torque		44.8 LB-FT			
Volts		460	Start Configuration		direct on line			
Full Load Amps		34	Breakdown Torque		135 LB-FT			
R.P.M.		3525	Pull-up Torque		47 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		65.2 LB-FT		
NEMA Design Code		B	KVA Code	G	Starting Current		212 A	
Service Factor (S.F.)		1.15	No-load Current		8.74 A			
NEMA Nom. Eff.		91.7	Power Factor		90	Line-line Res. @ 25°C		0.24052 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		69°C	
S.F. Amps			Temp. Rise @ S.F. Load		85°C			
			Locked-rotor Power Factor		23.2			

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	67	83	88	90	90	90	90
Efficiency	87	91.3	92	91.7	90.9	89.7	91.2
Speed	3583	3565.7	3547.3	3526.7	3504.4	3479.1	3513
Line amperes	12.4	18.7	26.1	34.1	43.1	52.5	39.5

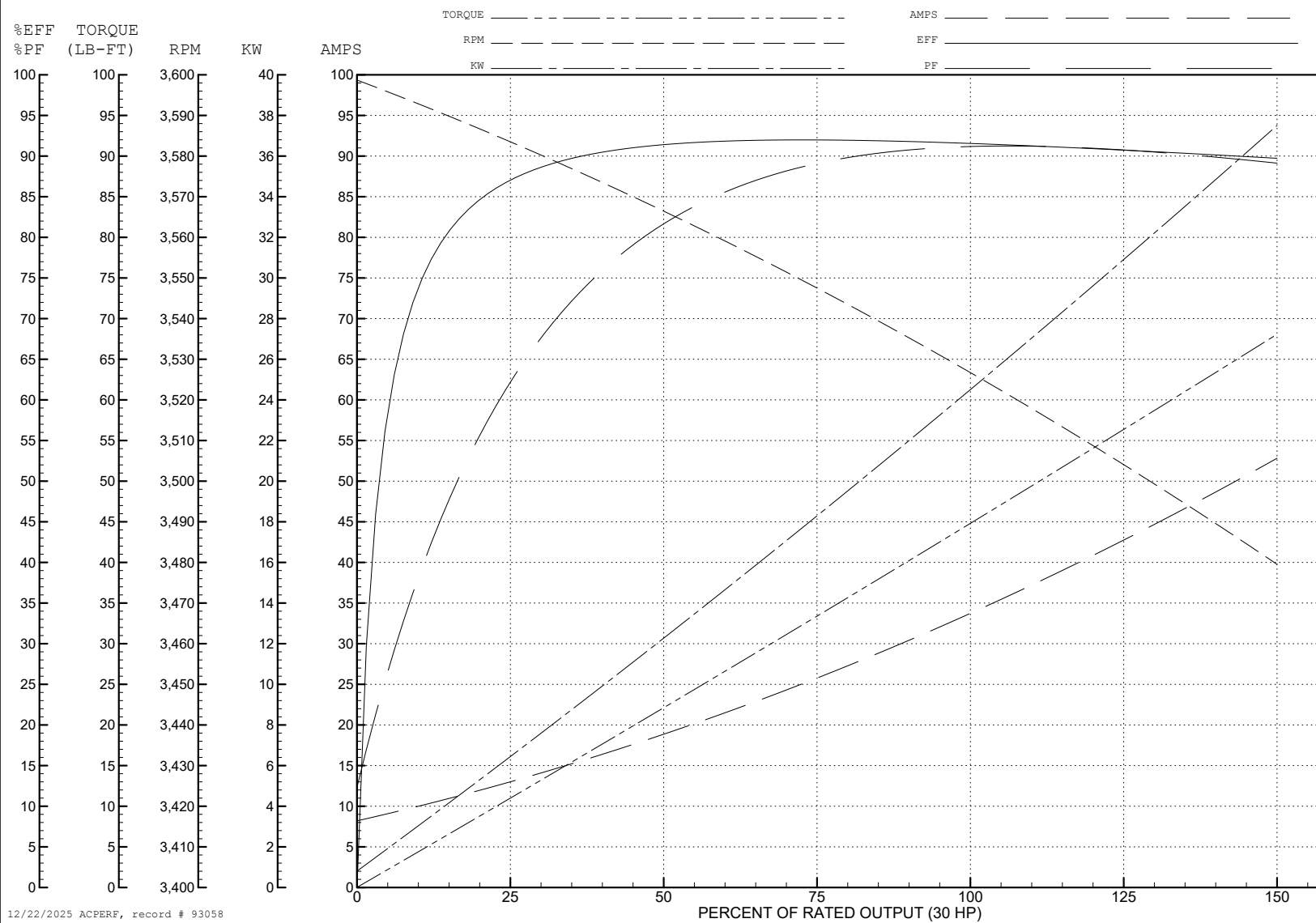
ABB Motors and Mechanical Inc.

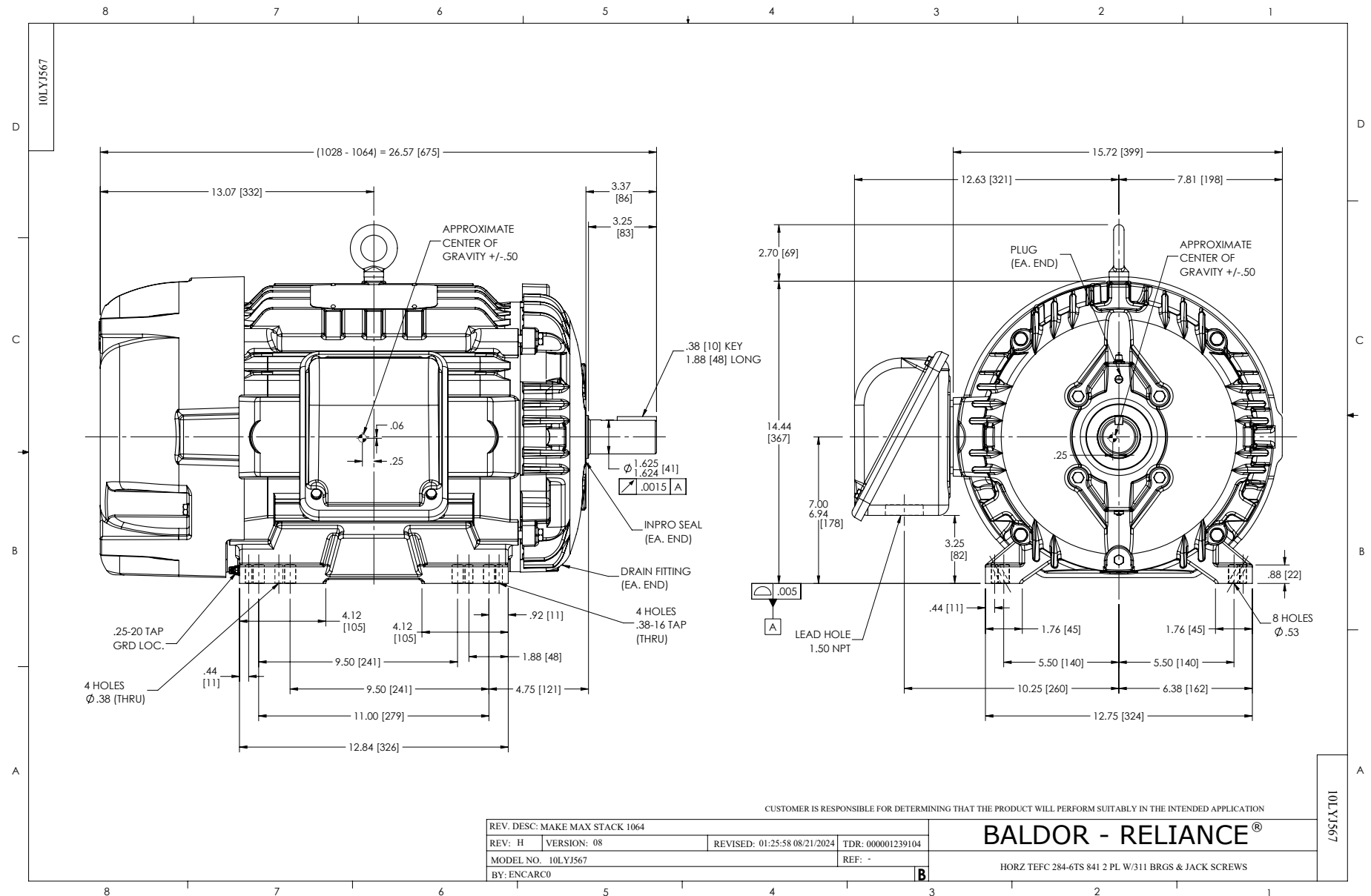
WINDING # 10WGZ522

Typical performance - not guaranteed values.

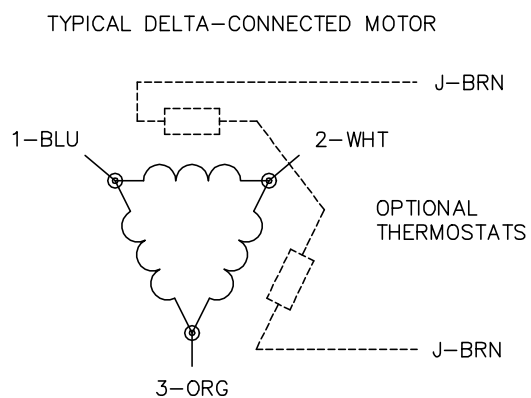
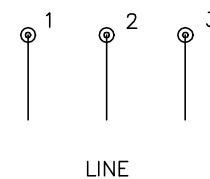
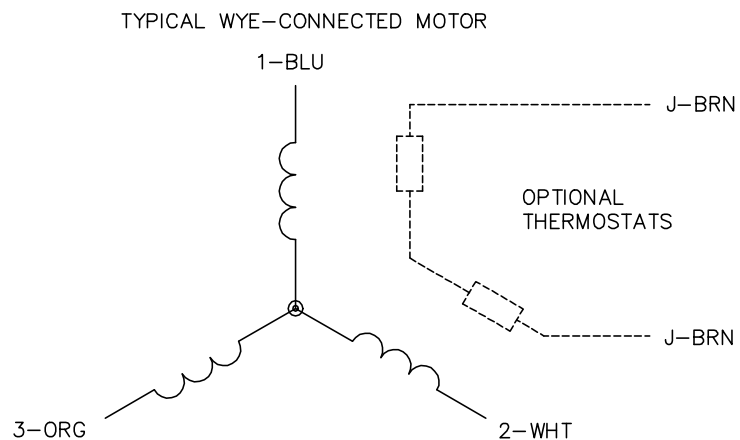
30 HP 3 PH 60 HZ 3525 RPM 460 V 1048M

TORQUES (LB-FT): PO=135 PU=47 LR=65.2 LRA=212





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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