

BALDOR • RELIANCE

Customer information packet

ECP84117T-5

30HP, 1180RPM, 3PH, 60HZ, 326T, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	326T
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	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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
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
Current @ Voltage	30.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	841
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3

Part detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGZ235
Layout	12LYG135
Eff. date	07-19-2023
CD Diagram	CD0006
Poles	06
Leads	3#10
Proprietary	False
Created date	12-12-2018

Heater Indicator	No Heater
High Voltage Full Load Amps	30.0 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	1800 rpm
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1268M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.74 IN
Power Factor	80
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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.	ECP84117T-5	P/N		ENCLOSURE	TEFC
SPEC.	12-0000-0369	CC	010A	FRAME	326T
HP	30	CLASS	F	HZ	60
RPM	1180	RPM MAX	1800	ODE BRG	6312
VOLT	575	PH	3	DE BRG	6312
AMP	30	DES	B	D.E. BRG.	60BC03X30X
RATING	40C AMB-CONT	KVA-CODE	G	O.D.E. BRG.	60BC03X30X
NEMA-NOM-EFF	93	MOTOR WEIGHT	635	GREASE	POLYREX EM
G.MIN.EFF	91.7	MAX. KVAR	9.8	BLANK	
TEMP CODE	T3	# OF ROTOR BARS	42	SER.F.	1.15
TEMP =	200	# OF STATOR SLOTS	54	IP	56
CT HZ FROM	1	PF	80	INV.TYPE	PWM
HTR-VOLTS		INVERTER-TEMP-CODE	200		
HTR-AMPS		C HP FR	60	C HP TO	90
HTR-WATTS		CT HZ TO	60		
MAX. SPACE HEATER TEMP.				VT HZ FROM	0
				VT HZ TO	60

AC Induction Motor Performance Data

Record # 93184

Typical performance - not guaranteed values

Winding: 12WGZ235-R001		Type: 1268M	Enclosure: TEFC		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)	30	Full Load Torque	134 LB-FT		
Volts	575	Start Configuration	direct on line		
Full Load Amps	30	Breakdown Torque	340 LB-FT		
R.P.M.	1180	Pull-up Torque	153 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque	188 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	174 A
Service Factor (S.F.)	1.15	No-load Current	11.9 A		
NEMA Nom. Eff.	93	Power Factor	80	Line-line Res. @ 25°C	0.4 Ω
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	55°C	
S.F. Amps			Temp. Rise @ S.F. Load	69°C	
			Locked-rotor Power Factor	29.2	
			Rotor inertia	13 lb-ft ²	

Load Characteristics 575 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	45	67	76	80	82	81	81
Efficiency	90.6	93.5	94	93	92.5	91.1	92.9
Speed	1196	1191	1186	1180	1174	1166	1176
Line amperes	13.67	17.93	23.55	29.99	37.27	45.63	34.4

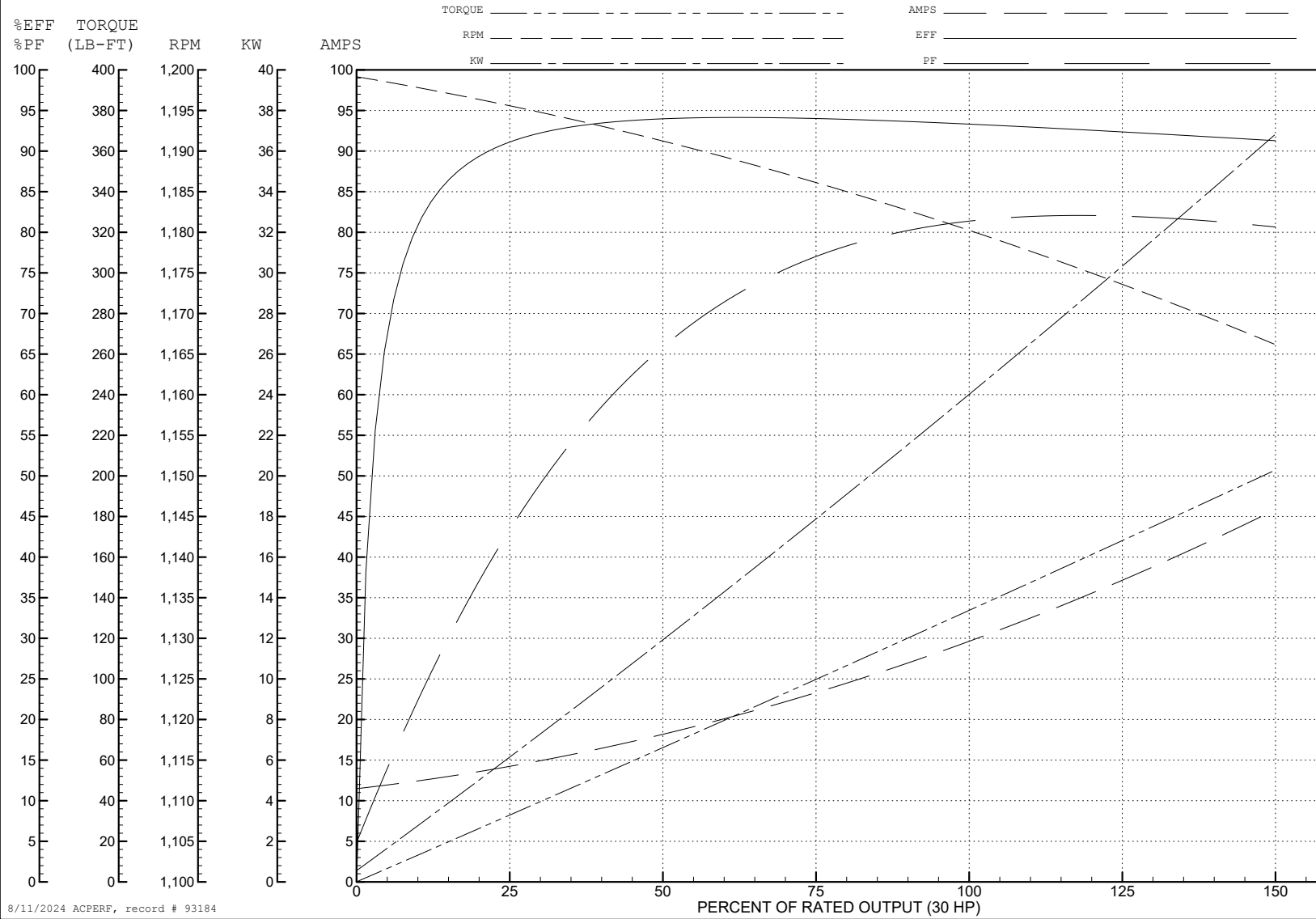
ABB Motors and Mechanical Inc.

WINDING # 12WGZ235

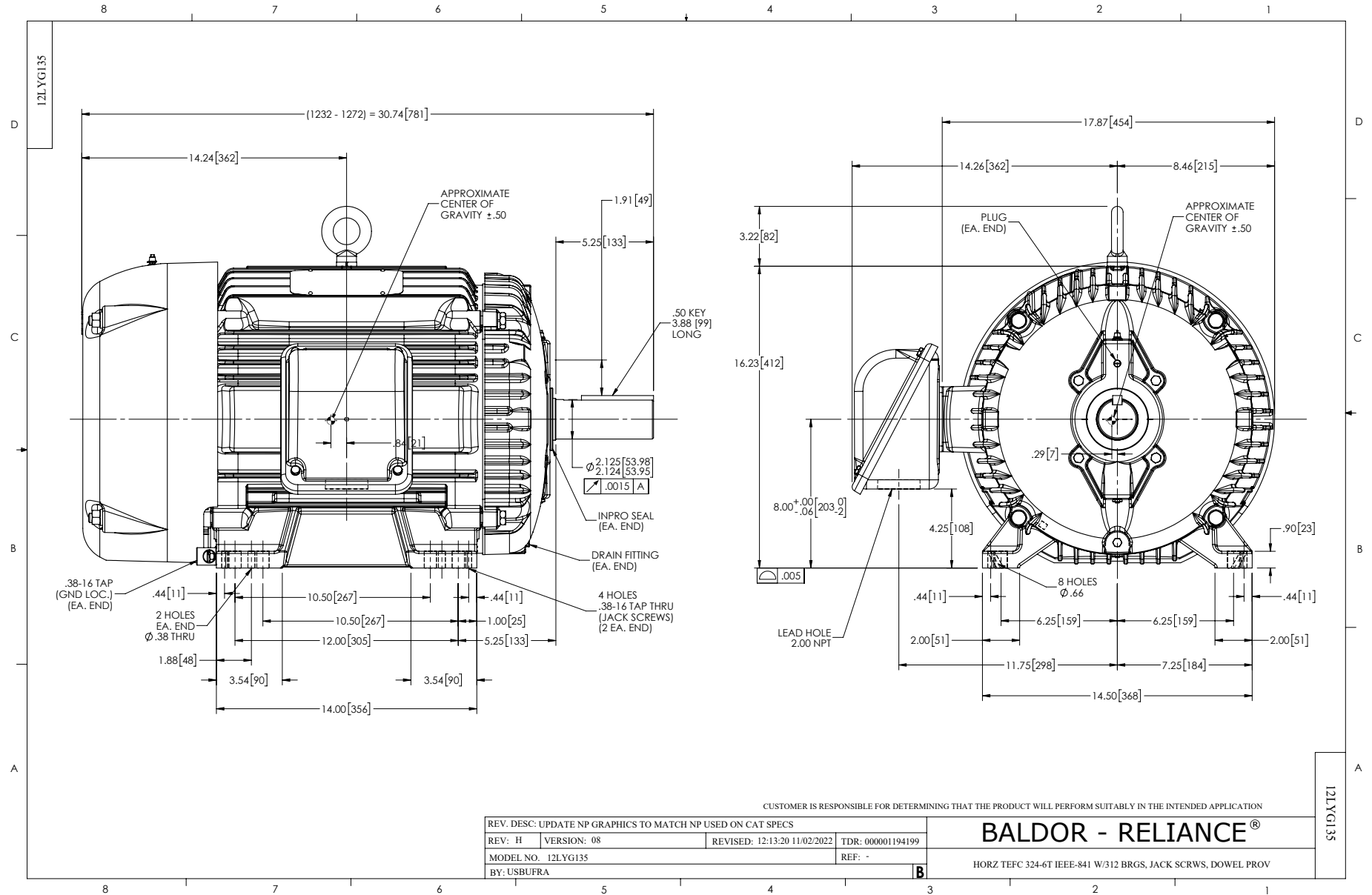
30 HP 3 PH 60 HZ 1180 RPM 575 V 1268M

Typical performance - not guaranteed values.

TORQUES (LB-FT): PO=340 PU=153 LR=188 LRA=174



8/11/2024 ACPERF, record # 93184



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

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

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