ABB BALDOR RELIANCE

Customer information packet

SPM4114TS

50HP, 3540RPM, 3PH, 60HZ, 326TS, 1256M, TEFC, F
Class - CLI GP A,B,C,D; CLII GP F,G
Division - Division II

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11/16/2026 1:11:16 AM

Specifications

Enclosure	TEFC
Frame	326TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D; CLII GP F,G
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CURUSEEV
	NEMA PREMIUM
	NEMA_PREMIUM
	WEEE
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
Current @ Voltage	56.000 A @ 460.0 V
	124.000 A @ 208.0 V
	112.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	D
Type	AC
Mech. spec.	12T115
Base	
Status	PRD/A
Elec. spec.	12WGZ343
Layout	12LYT115
Eff. date	04-17-2026
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	10-02-2023

Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	56.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4500 rpm
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1256M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	29.21 IN
Power Factor	89
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3540 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

NP4439B05C23L

CAT #	SPM4114TS			**SER #**				**CC**	010A	**WGT**	587	**LBS**					
SPEC	12T115Z343			**FRAME**	326TS			**ENCL**	TEFC			**IP**	55				
RATING	40C AMB-CONT							**NEMA NOM. EFF**	94.1								
HP	50			**VOLTS**	230/460												
AMPS	112/56				**RPM**	3540				**HZ**	60						
PH	3	**CL**	F	**CODE**	H	**DES**	B	**PF**	89	**%**		**SER.F.**	1.15	**SF AMP**	128/64		
DE BRG	6312			**ODE BRG**	6312					**LUBE**	POLYREX EM						
	INV TYPE:		**VPWM**		**SL HZ**	1		**CHP**	60	**TO**	75		1.3:1				
WK2	4.38		**LBFT2**		**MAX RPM**	4500		**CT**	6	**TO**	60		10:1				
MAG CUR	33.2/16.6							**VT**	3	**TO**	60		20:1				

MEETS INTENT OF IEEE-45 **FOR WEATHER PROTECTION**

CL I DIV 2 GRPS A,B,C,D	**TEMP CODE**	T3C		**CL I INV TEMP CODE**	T3	**TEMP=**	200	**C**			
CL I ZONE 2 GRPS	**IIA,IIB,IIC**	**TEMP =**	160	**C**		**CL II INV TEMP CODE**	T3	**TEMP =**	200	**C**	
CL II DIV 2 GRPS F&G	**TEMP CODE**	T3C				**1.0 SF ON PWM INVERTER**		**POWER**			
CL II ZONE 22 GRPS IIIB	**TEMP=**	160	**C**								

YR

AC Induction Motor Performance Data
Record # 101346
Typical performance - not guaranteed values

Winding: 12WGZ343-R001	**Type:** 1256M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	74.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			112/56	**Breakdown Torque**	292 LB-FT
R.P.M.			3540	**Pull-up Torque**	97.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	134 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	403 A
Service Factor (S.F.)			1.15	**No-load Current**	16.6 A
NEMA Nom. Eff.	94.1	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.11 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	78°C
S.F. Amps			128/64	**Temp. Rise @ S.F. Load**	96°C
				Locked-rotor Power Factor	20.2
				Rotor inertia	4.38 lb-ft²

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	60	80	87	89	90	91	90
Efficiency	90.3	93.6	94.3	94.2	93.5	92.8	93.8
Speed	3585	3574	3562	3550	3539	3527	3543
Line amperes	21.6	31.3	42.9	55.7	69.3	82.9	63.9

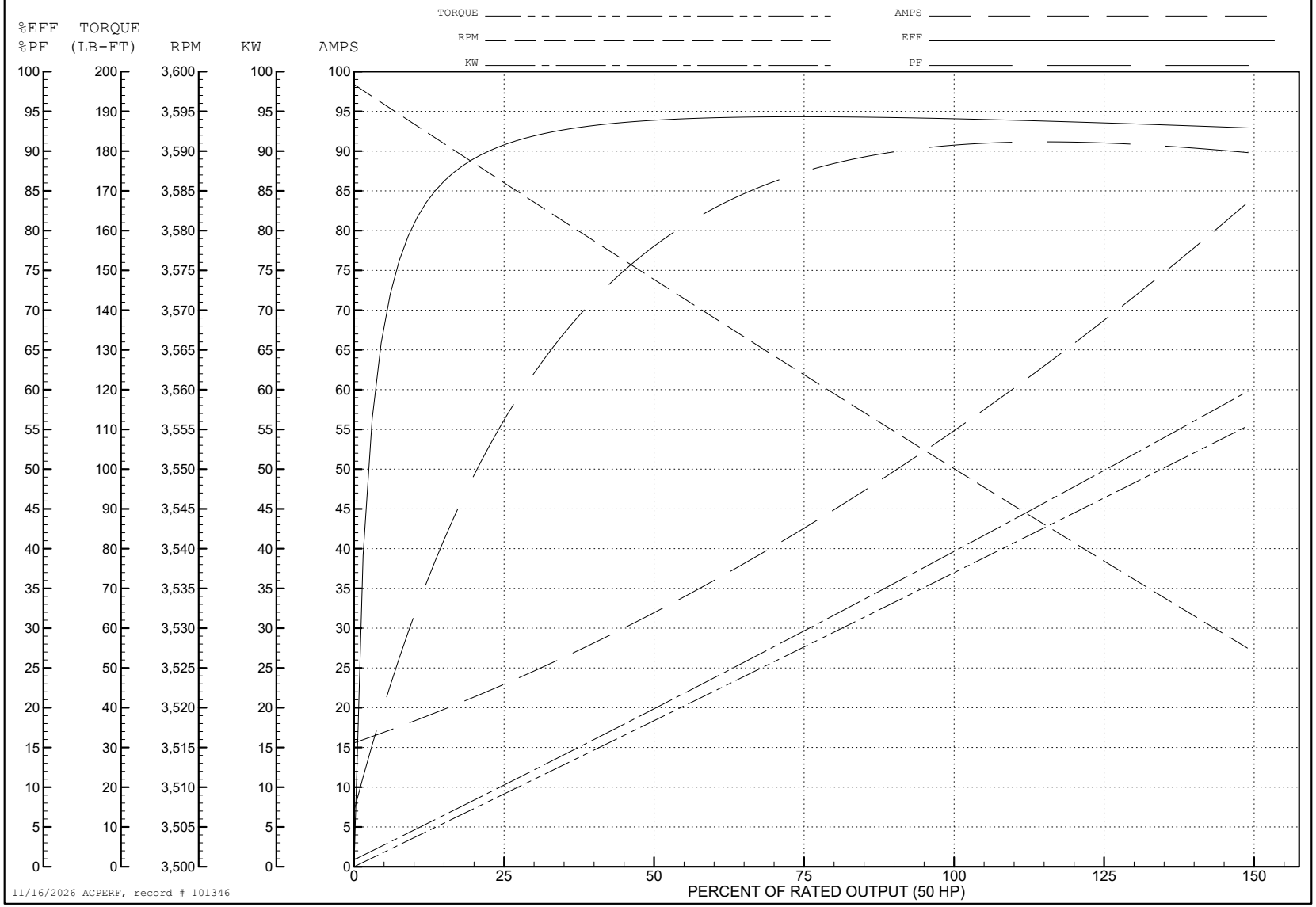
ABB Motors and Mechanical Inc.

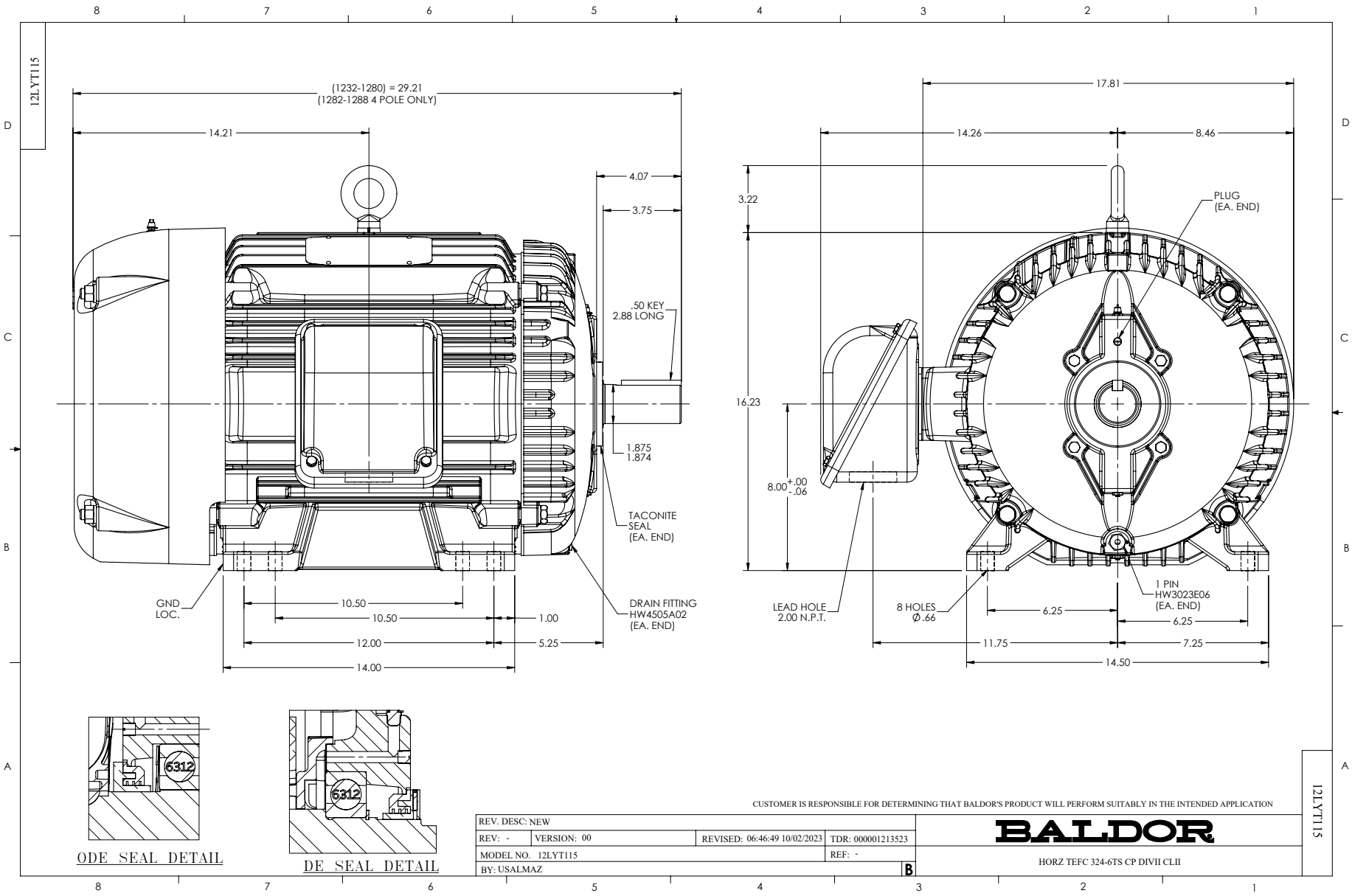
WINDING # 12WGZ343

50 HP 3 PH 60 HZ 3540 RPM 460 V 1256M

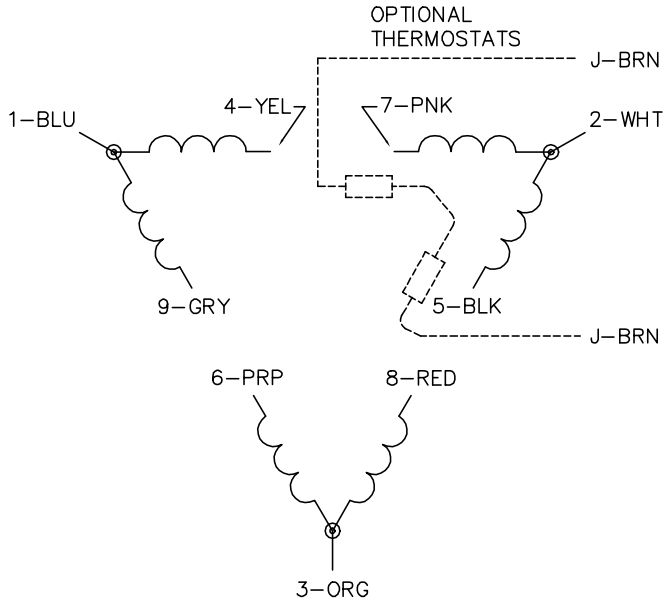
Typical performance - not guaranteed values.

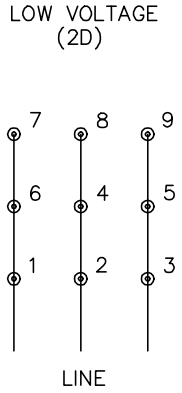
TORQUES(LB-FT): PO=292 PU=97.3 LR=134 LRA=403

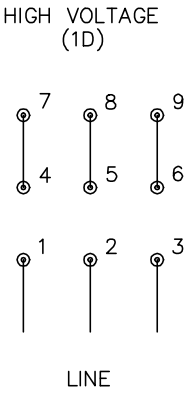



12LYT115
(1232-1280) = 29.21
(1282-1288 4 POLE ONLY)
14.21
4.07
3.75
.50 KEY
2.88 LONG
1.875
1.874
TACONITE
SEAL
(EA. END)
GND
LOC.
10.50
10.50
1.00
12.00
5.25
14.00
DRAIN FITTING
HW4505A02
(EA. END)
17.81
14.26
8.46
3.22
PLUG
(EA. END)
16.23
8.00 +.00 -.06
LEAD HOLE
2.00 N.P.T.
8 HOLES
Ø .66
6.25
6.25
1 PIN
HW3023E06
(EA. END)
11.75
7.25
14.50
6312
ODE SEAL DETAIL
6312
DE SEAL DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 06:46:49 10/02/2023 TDR: 000001213523
MODEL NO. 12LYT115 REF: -
BY: USALMAZ B
BALDOR
HORZ TEFC 324-6TS CP DIVII CLII
12LYT115

CD0180







NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1