ABB BALDOR RELIANCE

Customer information packet

CSPM4114TS

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

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Specifications

Enclosure	TEFC
Frame	326TSC
Frame Material	Cast 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	CURUSEEV
	NEMA_PREMIUM
	WEEE
	CSA
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	124.000 A @ 208.0 V
	56.000 A @ 460.0 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
Front Shaft Indicator	None

Part Detail

Revision	B
Type	AC
Mech. spec.	12T119
Base	
Status	PRD/A
Elec. spec.	12WGZ343
Layout	12LYT119
Eff. date	04-17-2026
CD Diagram	CD0180
Poles	02
Leads	9#8
Proprietary	False
Created date	09-23-2024

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	C-Face
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 #	CSPM4114TS			**SER #**				**CC**	010A	**WGT**	587	**LBS**					
SPEC	12T119Z343			**FRAME**	326TSC			**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			
Rated Output (HP)			50
Volts			230/460
Full Load Amps			112/56
R.P.M.			3540
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	94.1	**Power Factor**	89
Rating - Duty			40C AMB-CONT
S.F. Amps			128/64

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	74.1 LB-FT
Start Configuration	direct on line
Breakdown Torque	292 LB-FT
Pull-up Torque	97.3 LB-FT
Locked-rotor Torque	134 LB-FT
Starting Current	403 A
No-load Current	16.6 A
Line-line Res. @ 25ºC	0.11 Ω
Temp. Rise @ Rated Load	78°C
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

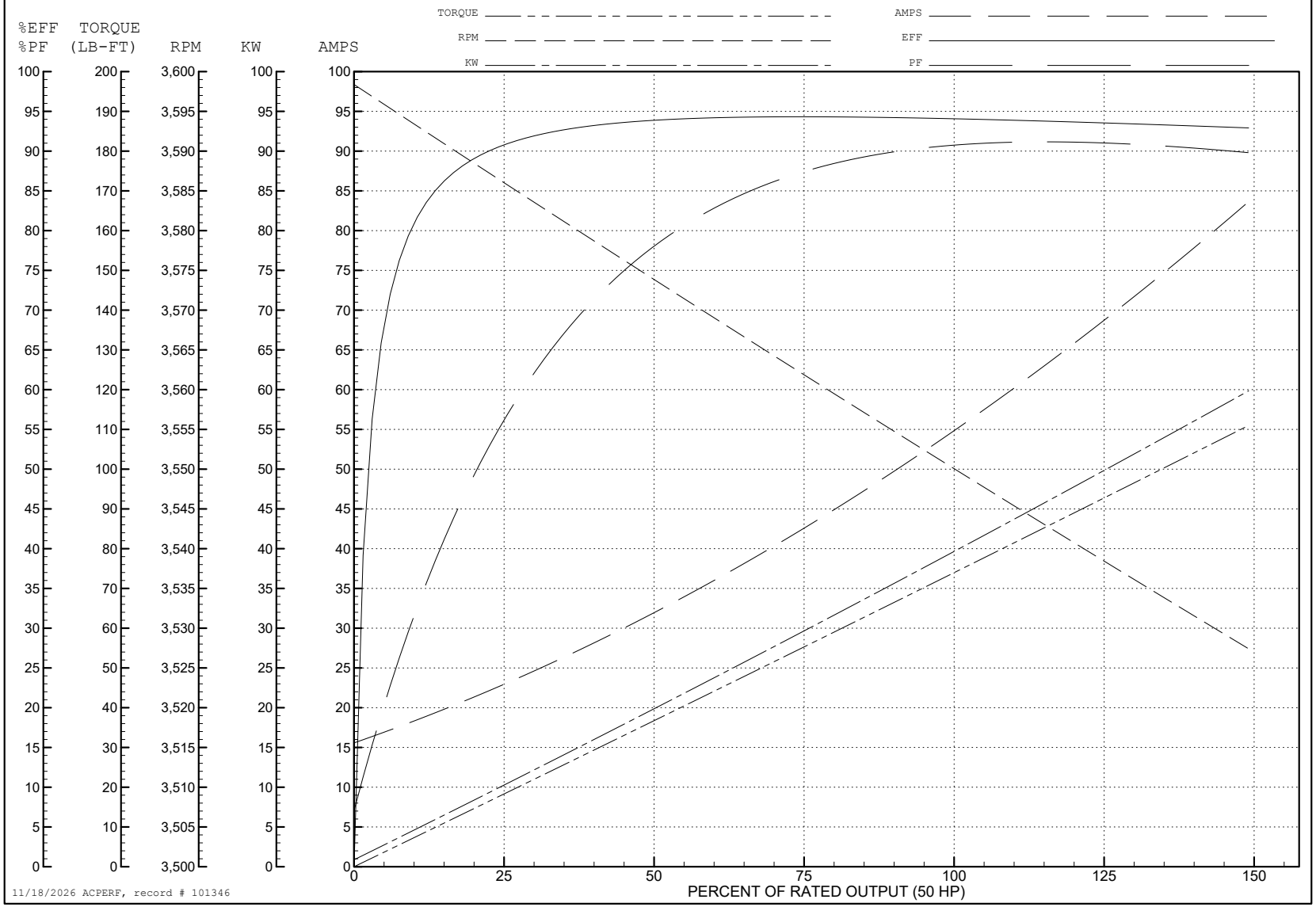
ABB Motors and Mechanical Inc.

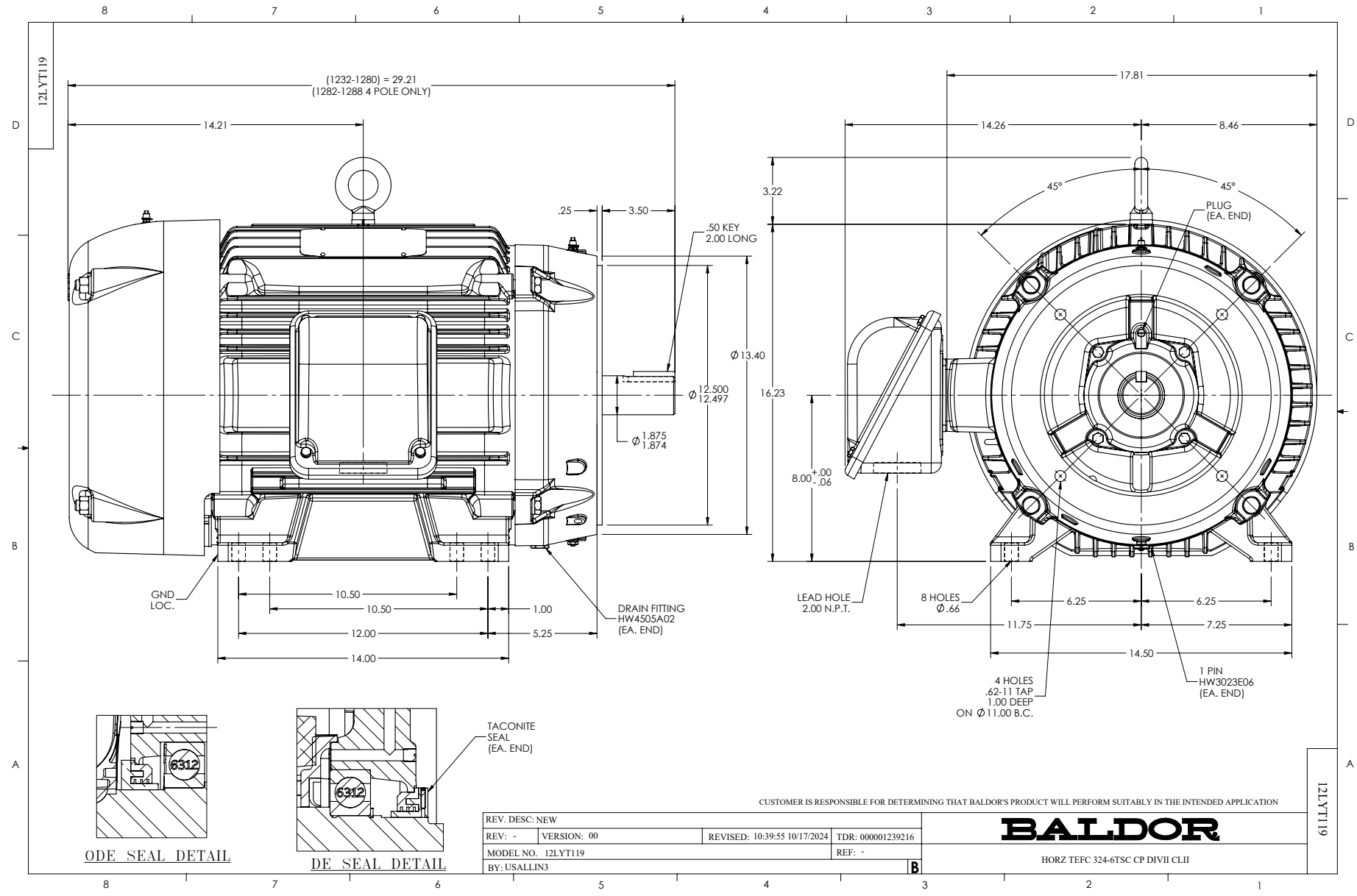
WINDING # 12WGZ343

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

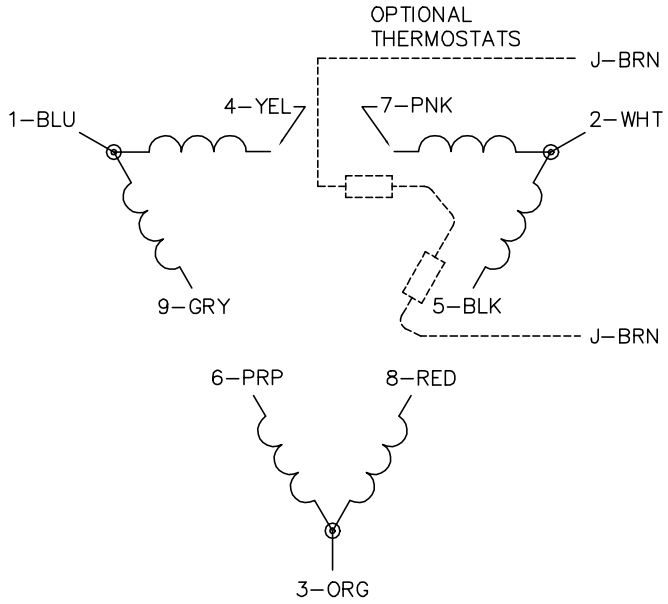
Typical performance - not guaranteed values.

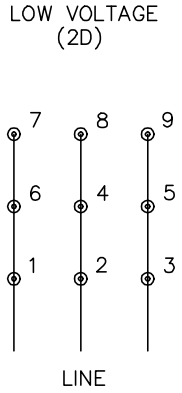
TORQUES(LB-FT): PO=292 PU=97.3 LR=134 LRA=403

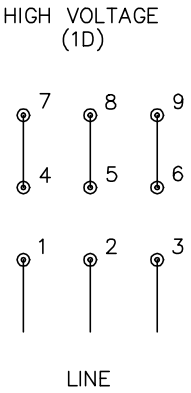



12LYT119
(1232-1280) = 29.21
(1282-1288 4 POLE ONLY)
14.21
.25
3.50
.50 KEY
2.00 LONG
Ø13.40
Ø12.500
12.497
Ø1.875
1.874
GND
LOC.
10.50
10.50
1.00
12.00
5.25
14.00
DRAIN FITTING
HW4505A02
(EA. END)
17.81
14.26
8.46
3.22
45°
45°
PLUG
(EA. END)
16.23
8.00 +.00 -.06
LEAD HOLE
2.00 N.P.T.
8 HOLES
Ø.66
6.25
6.25
11.75
7.25
14.50
4 HOLES
.62-11 TAP
1.00 DEEP
ON Ø11.00 B.C.
1 PIN
HW3023E06
(EA. END)
6312
ODE SEAL DETAIL
6312
TACONITE
SEAL
(EA. END)
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: 10:39:55 10/17/2024 TDR: 000001239216
MODEL NO. 12LYT119 REF: -
BY: USALLIN3 B
BALDOR
HORZ TEFC 324-6TSC CP DIVII CLII
12LYT119

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