ABB BALDOR RELIANCE

Customer information packet

SPM4115T

50HP, 1775RPM, 3PH, 60HZ, 326T, 1288M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	326T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	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	120.000 A @ 230.0 V
	60.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None

Part Detail

Revision	F
Type	AC
Mech. spec.	12T116
Base	
Status	PRD/A
Elec. spec.	12WGZ340
Layout	12LYT116
Eff. date	04-17-2026
CD Diagram	CD0180
Poles	04
Leads	9#6
Proprietary	False
Created date	10-03-2023

Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	60.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1288M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	30.71 IN
Power Factor	84
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	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 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 # SPM4115T **SER #** **CC** 010A **WGT** 720 **LBS**

SPEC 12T116Z340 **FRAME** 326T **ENCL** TEFC **IP** 55

RATING 40C AMB-CONT **NEMA NOM. EFF** 95.4

HP 50 **VOLTS** 230/460

AMPS 116/58 **RPM** 1775 **HZ** 60

PH 3 **CL** F **CODE** J **DES** A **PF** 84 **%** **SER.F.** 1.15 **SF AMP**

DE BRG 6312 **ODE BRG** 6312 **LUBE** POLYREX EM

INV TYPE: **VPWM** **SL HZ** 0.8 **CHP** 60 **TO** 90 1.5:1

WK2 11.7 **LBFT2** **MAX RPM** 2700 **CT** 6 **TO** 60 10:1

MAG CUR 42/21 **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 # 107565
Typical performance - not guaranteed values

Winding: 12WGZ340-R001	**Type:** 1288M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			50	**Full Load Torque**	147.7 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			120/60	**Breakdown Torque**	506 LB-FT
R.P.M.			1775	**Pull-up Torque**	272 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	269 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	436 A
Service Factor (S.F.)			1.15	**No-load Current**	21.8 A
NEMA Nom. Eff.	95.4	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.094907 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	25.3

Load Characteristics 460 V, 60 Hz, 50 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	71	81	85	86	87	86
Efficiency	93.3	95.5	95.9	95.7	95.2	94.6	95.4
Speed	1794.8	1790	1784.7	1779.7	1772.9	1766.3	1776
Line amperes	25.7	34.4	45.4	57.7	71.2	85.5	65.8

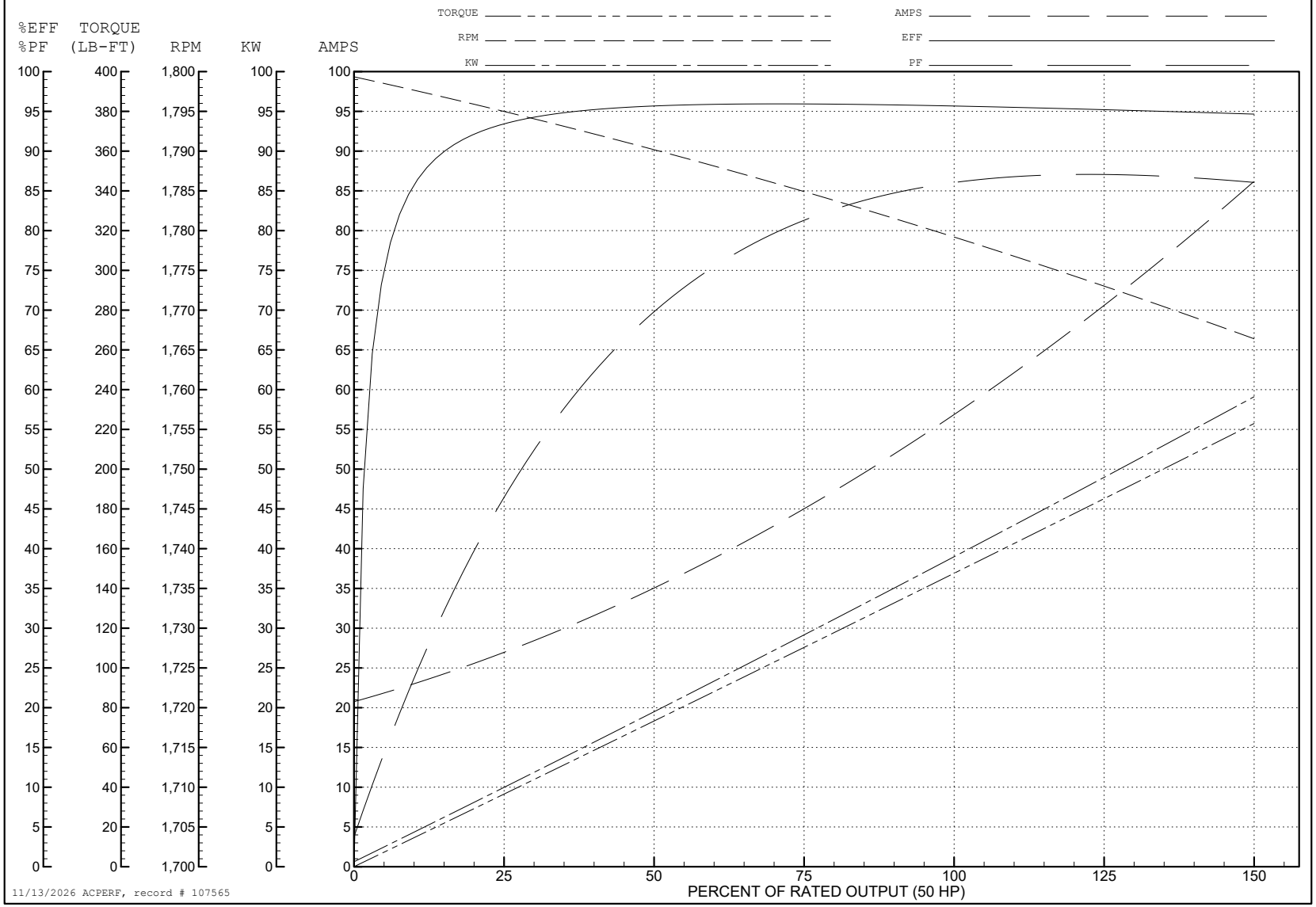
ABB Motors and Mechanical Inc.

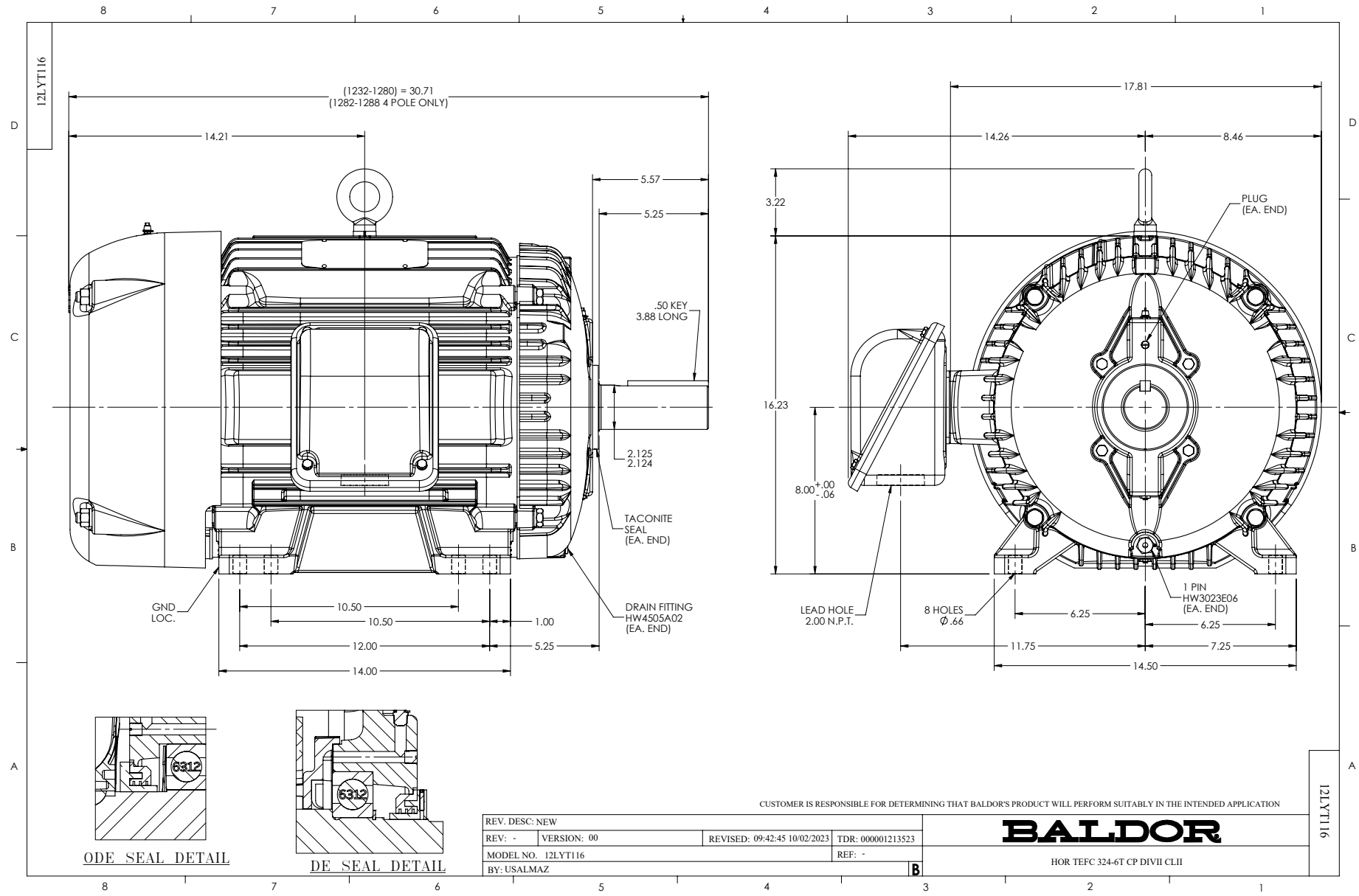
WINDING # 12WGZ340

50 HP 3 PH 60 HZ 1775 RPM 460 V 1288M

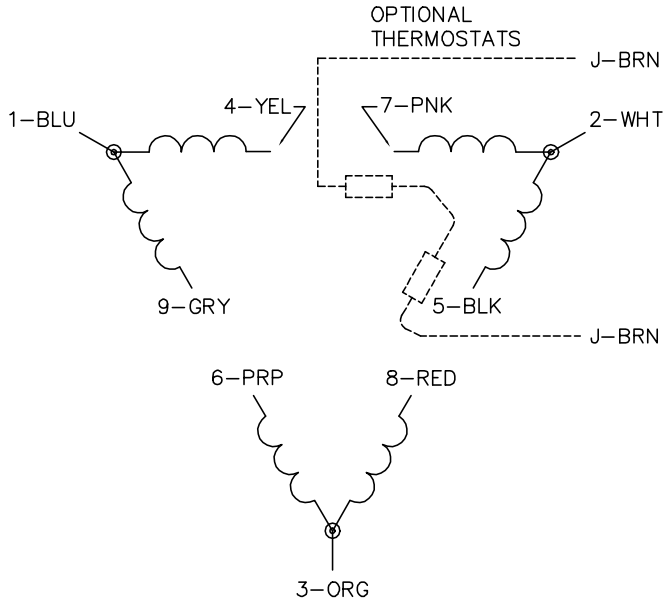
Typical performance - not guaranteed values.

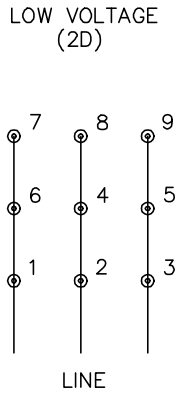
TORQUES(LB-FT): PO=506 PU=272 LR=269 LRA=436

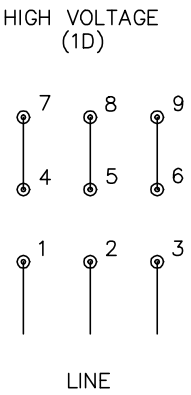



12LYT116
(1232-1280) = 30.71
(1282-1288 4 POLE ONLY)
14.21
5.57
5.25
.50 KEY
3.88 LONG
2.125
2.124
TACONITE
SEAL
(EA. END)
GND
LOC.
10.50
10.50
1.00
12.00
5.25
14.00
DRAIN FITTING
HW4505A02
(EA. END)
17.81
14.26
8.46
3.22
PLUG
(EA. END)
16.23
8.00 +.00 -.06
LEAD HOLE
2.00 N.P.T.
8 HOLES
Ø.66
6.25
6.25
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: 09:42:45 10/02/2023 TDR: 000001213523
MODEL NO. 12LYT116 REF: -
BY: USALMAZ B
BALDOR
HOR TEFC 324-6T CP DIVII CLII
12LYT116

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