

ABB BALDOR RELIANCE III

Customer information packet

SPM4110T

40HP, 1785RPM, 3PH, 60HZ, 324T, 1288M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	324T
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	40.000 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	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	96.000 A @ 230.0 V 48.000 A @ 460.0 V 104.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	E
Type	AC
Mech. spec.	12T116
Base	
Status	PRD/A
Elec. spec.	12WGZ347
Layout	12LYT116
Eff. date	04-17-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	06-18-2024

Front Shaft Indicator	None
Haz Area Temp Code	T3B
Heater Indicator	No Heater
High Voltage Full Load Amps	48.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 8 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	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	Y
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 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 #	SPM4110T										SER #						CC	010A	WGT	720	LBS					
SPEC	12T116Z347										FRAME	324T					ENCL	TEFC	IP	55						
RATING	40C AMB-CONT															NEMA NOM. EFF	95									
HP	40										VOLTS	230/460														
AMPS	96/48										RPM	1785					HZ	60								
PH	3	CL	F	CODE	K	DES	A	PF	82	%	SER.F.		1.15	SF AMP	108/54											
DE BRG	6312					ODE BRG	6312					LUBE	POLYREX EM													
INV TYPE:	VPWM			SL HZ	0.5	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=	160	C						
CL I ZONE 2 GRPS					IIA,IIB,IIC					TEMP =	165	C	CL II INV TEMP CODE				T3B	TEMP =	165	C						
CL II DIV 2 GRPS F&G					TEMP CODE					T3B		1.0 SF ON PWM INVERTER				POWER										
CL II ZONE 22 GRPS IIIB					TEMP=					165	C															

YR

AC Induction Motor Performance Data

Record # 104337

Typical performance - not guaranteed values

Winding: 12WGZ347-R001			Type: 1288M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		40	Full Load Torque		118.2 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		92/46	Breakdown Torque		414 LB-FT	
R.P.M.		1775	Pull-up Torque		230 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		279 LB-FT
NEMA Design Code		A	KVA Code		J	
Service Factor (S.F.)		1.15	No-load Current		21.2 A	
NEMA Nom. Eff.		95	Power Factor		85	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C
S.F. Amps				Temp. Rise @ S.F. Load		52°C
				Locked-rotor Power Factor		24.9

Load Characteristics 460 V, 60 Hz, 40 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	44	66	77	82	85	86	84
Efficiency	90.8	94.3	95.2	95.2	95	94.7	95.1
Speed	1796.2	1792.3	1788.5	1784.3	1780.2	1775	1782
Line amperes	23.9	30.3	38.6	48	58.2	69.1	54.1

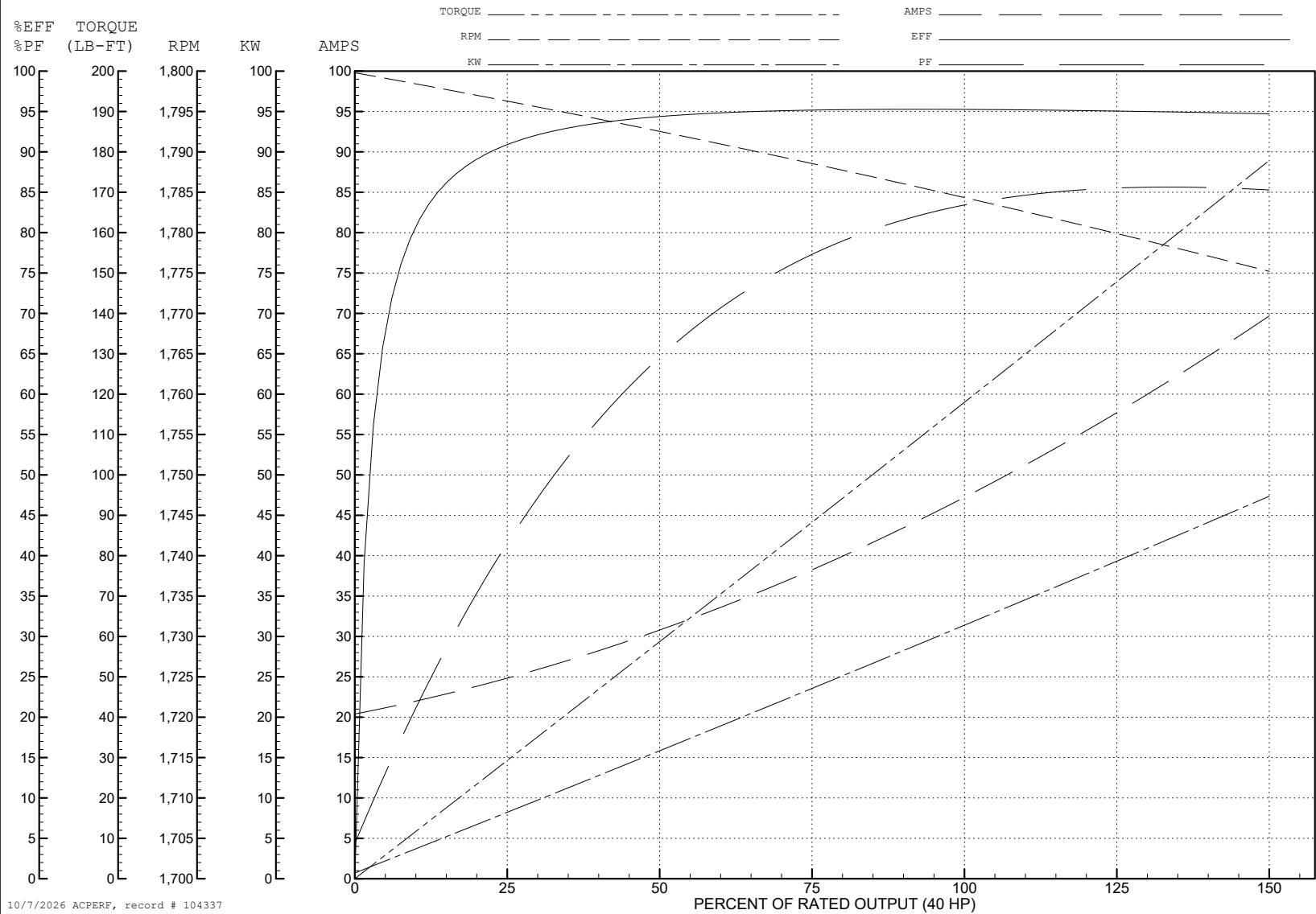
ABB Motors and Mechanical Inc.

WINDING # 12WGZ347

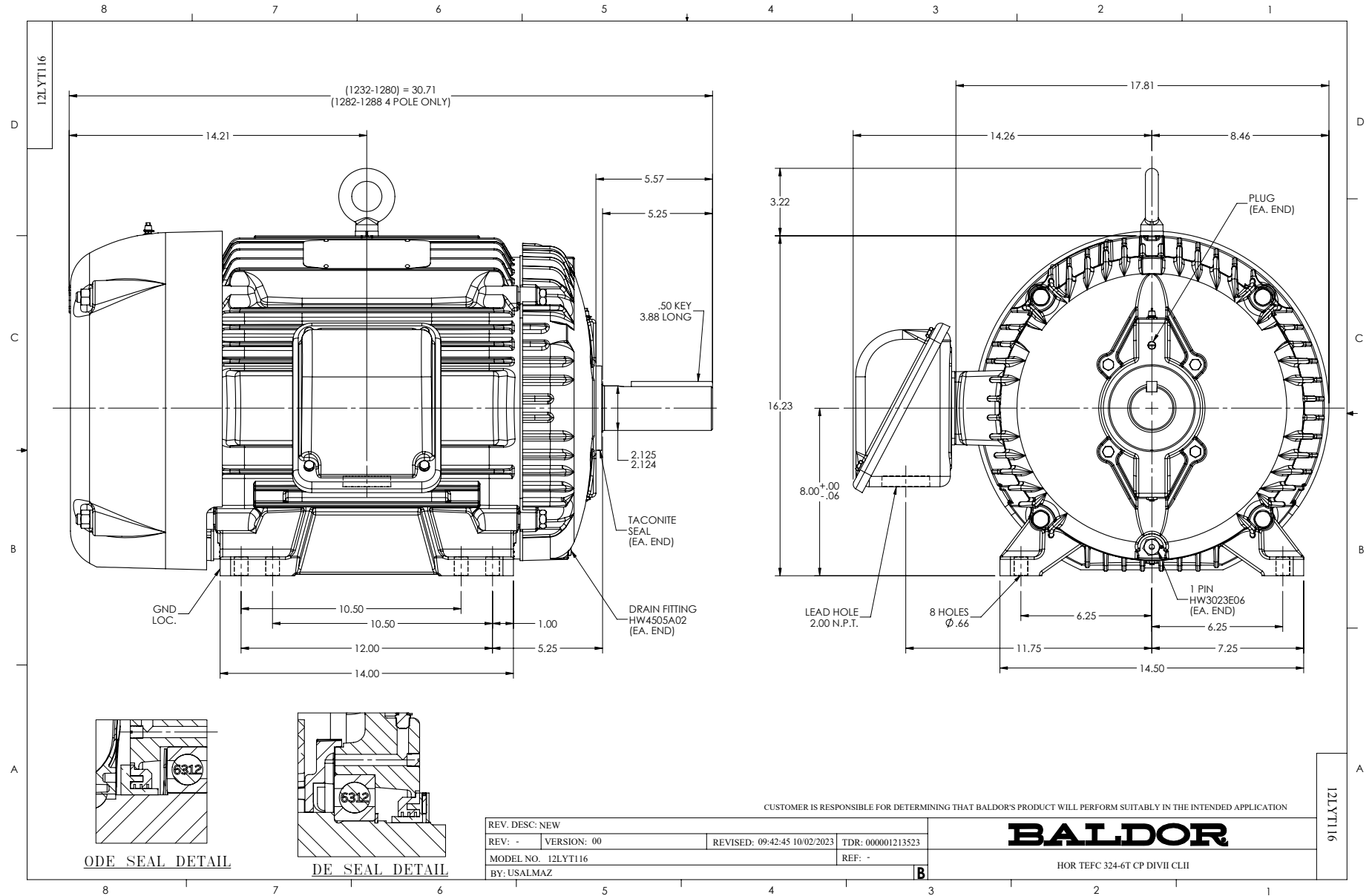
Typical performance - not guaranteed values.

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

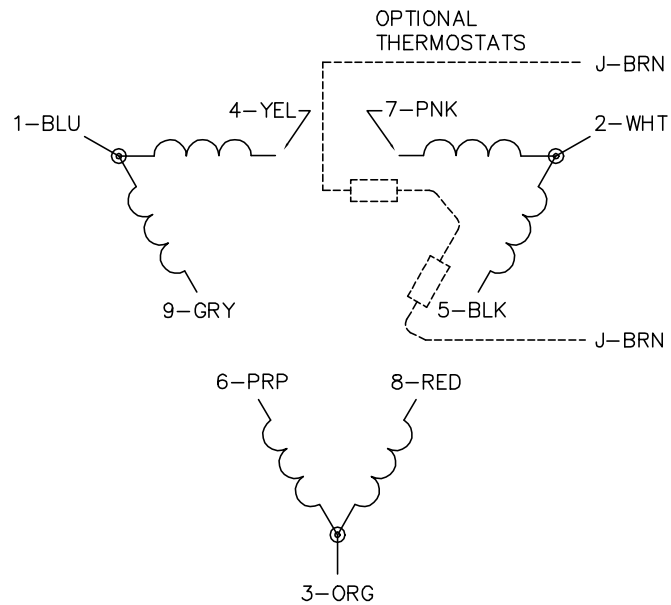
TORQUES (LB-FT): PO=414 PU=230 LR=279 LRA=409



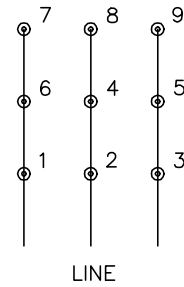
10/7/2026 ACPERF, record # 104337



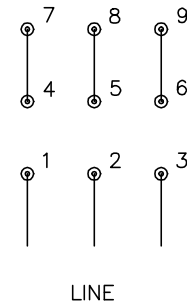
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1

CD0180