

# ABB BALDOR RELIANCE III

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## Customer information packet

### SPM4115TS

50HP, 1775RPM, 3PH, 60HZ, 326TS, 1288M, TEFC, F

Class - None

Division - Not Applicable

**Specifications**

<b>Enclosure</b>	TEFC
<b>Frame</b>	326TS
<b>Frame Material</b>	Iron
<b>Frequency</b>	60.00 Hz
<b>Haz Area Class and Group</b>	None
<b>Haz Area Division</b>	Not Applicable
<b>Motor Letter Type</b>	Three Phase
<b>Output @ Frequency</b>	50.000 HP @ 60 HZ
<b>Phase</b>	3
<b>Synchronous Speed @ Frequency</b>	1800 RPM @ 60 HZ
<b>Voltage @ Frequency</b>	460.0 V @ 60 HZ 230.0 V @ 60 HZ
<b>Agency Approvals</b>	CURUSEEV NEMA PREMIUM NEMA_PREMIUM WEEE CSA
<b>Ambient Temperature</b>	40 °C
<b>Auxiliary Box</b>	NO AUXILLARY BOX
<b>Auxiliary Box Lead Termination</b>	None
<b>Base Indicator</b>	Rigid
<b>Bearing Grease Type</b>	Polyrex EM (-20F +300F)
<b>Blower</b>	None
<b>Current @ Voltage</b>	120.000 A @ 230.0 V 60.000 A @ 460.0 V
<b>Design Code</b>	A
<b>Drip Cover</b>	No Drip Cover
<b>Duty Rating</b>	CONT
<b>Efficiency @ 100% Load</b>	95.4 %
<b>Electrically Isolated Bearing</b>	Not Electrically Isolated
<b>Feedback Device</b>	NO FEEDBACK
<b>Front Shaft Indicator</b>	None

**Part Detail**

<b>Revision</b>	E
<b>Type</b>	AC
<b>Mech. spec.</b>	12T115
<b>Base</b>	
<b>Status</b>	PRD/A
<b>Elec. spec.</b>	12WGZ340
<b>Layout</b>	12LYT115
<b>Eff. date</b>	04-17-2026
<b>CD Diagram</b>	CD0180
<b>Poles</b>	04
<b>Leads</b>	9#6
<b>Proprietary</b>	False
<b>Created date</b>	10-02-2023

<b>Haz Area Temp Code</b>	T3C
<b>Heater Indicator</b>	No Heater
<b>High Voltage Full Load Amps</b>	60.0 a
<b>Insulation Class</b>	F
<b>Inverter Code</b>	Inverter Duty
<b>KVA Code</b>	J
<b>Lifting Lugs</b>	Standard Lifting Lugs
<b>Locked Bearing Indicator</b>	Locked Bearing
<b>Max Speed</b>	2700 rpm
<b>Motor Lead Quantity/Wire Size</b>	9 @ 6 AWG
<b>Motor Lead Termination</b>	Flying Leads
<b>Motor Standards</b>	NEMA
<b>Motor Type</b>	1288M
<b>Mounting Arrangement</b>	F1
<b>Number of Poles</b>	4
<b>Overall Length</b>	29.21 IN
<b>Power Factor</b>	84
<b>Product Family</b>	Chemical Processing (Not DC)
<b>Pulley End Bearing Type</b>	Ball
<b>Pulley Face Code</b>	Standard
<b>Pulley Shaft Indicator</b>	Standard
<b>Rodent Screen</b>	None
<b>RoHS Status</b>	ROHS COMPLIANT
<b>Service Factor</b>	1.15
<b>Shaft Diameter</b>	1.875 IN
<b>Shaft Ground Indicator</b>	No Shaft Grounding
<b>Shaft Rotation</b>	Reversible
<b>Shaft Slinger Indicator</b>	No Slinger
<b>Speed</b>	1775 rpm
<b>Speed Code</b>	Single Speed
<b>Starting Method</b>	Direct on line
<b>Thermal Device - Bearing</b>	None
<b>Thermal Device - Winding</b>	None
<b>Vibration Sensor Indicator</b>	No Vibration Sensor

**Winding Thermal 1**

**None**

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**Winding Thermal 2**

**None**

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**Nameplate**

**NP4439B05C23L**

<b>CAT #</b>	SPM4115TS	<b>SER #</b>		<b>CC</b>	010A	<b>WGT</b>	720	<b>LBS</b>				
<b>SPEC</b>	12T115Z340	<b>FRAME</b>	326TS	<b>ENCL</b>	TEFC	<b>IP</b>	55					
<b>RATING</b>	40C AMB-CONT			<b>NEMA NOM. EFF</b>	95.4							
<b>HP</b>	50	<b>VOLTS</b>	230/460									
<b>AMPS</b>	116/58		<b>RPM</b>	1775	<b>HZ</b>	60						
<b>PH</b>	3	<b>CL</b>	F	<b>CODE</b>	J	<b>DES</b>	A	<b>PF</b>	84 %			
		<b>SER.F.</b>	1.15		<b>SF AMP</b>							
<b>DE BRG</b>	6312		<b>ODE BRG</b>	6312		<b>LUBE</b>	POLYREX EM					
<b>INV TYPE:</b>	VPWM	<b>SL HZ</b>	0.8	<b>CHP</b>	60	<b>TO</b>	90	1.5:1				
<b>WK2</b>	11.7	<b>LBFT2</b>		<b>MAX RPM</b>	2700	<b>CT</b>	6	<b>TO</b>	60 10:1			
<b>MAG CUR</b>	42/21		<b>VT</b>	3	<b>TO</b>	60	20:1					
					<b>MEETS INTENT OF IEEE-45</b>			<b>FOR WEATHER PROTECTION</b>				
<b>CL I DIV 2 GRPS A,B,C,D</b>				<b>TEMP CODE</b>	T3C	<b>CL I INV TEMP CODE</b>		T3	<b>TEMP=</b>	200	<b>C</b>	
<b>CL I ZONE 2 GRPS</b>			<b>IIA,IIB,IIC</b>	<b>TEMP =</b>	160	<b>C</b>	<b>CL II INV TEMP CODE</b>		T3	<b>TEMP =</b>	200	<b>C</b>
<b>CL II DIV 2 GRPS F&amp;G</b>				<b>TEMP CODE</b>	T3C	<b>1.0 SF ON PWM INVERTER</b>		<b>POWER</b>				
<b>CL II ZONE 22 GRPS IIIB</b>				<b>TEMP=</b>	160	<b>C</b>						

YR

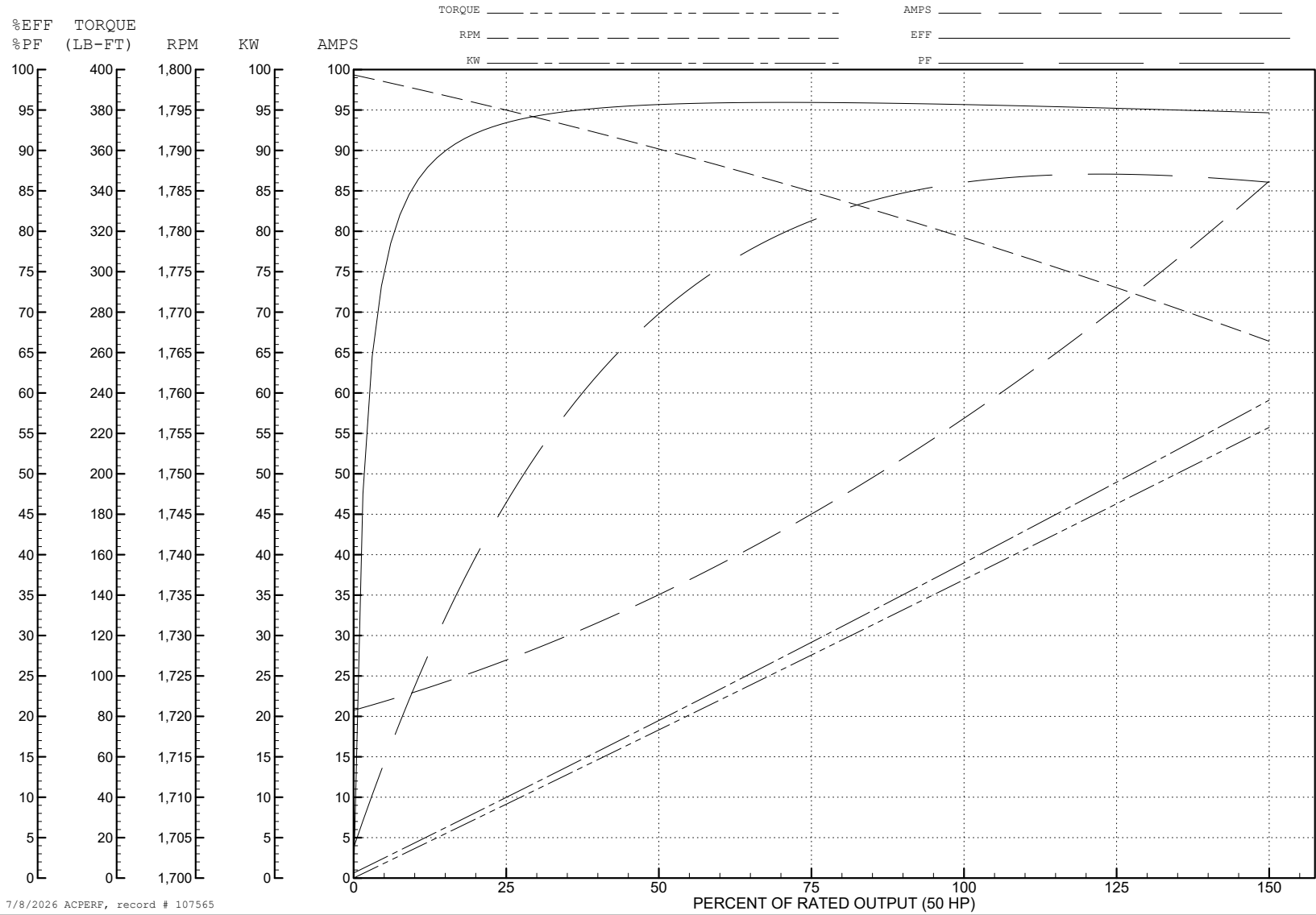
ABB Motors and Mechanical Inc.

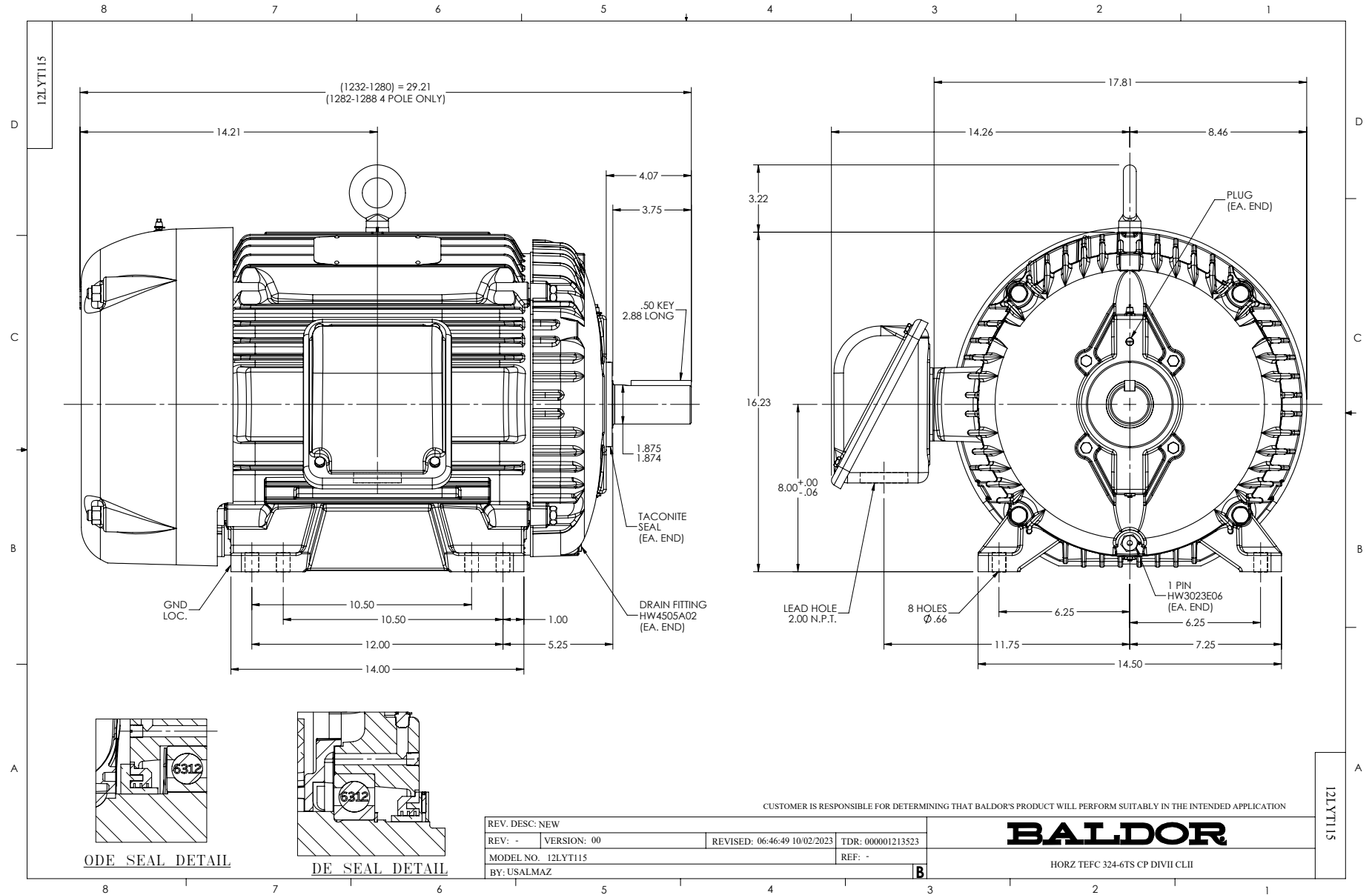
WINDING # 12WGZ340

Typical performance - not guaranteed values.

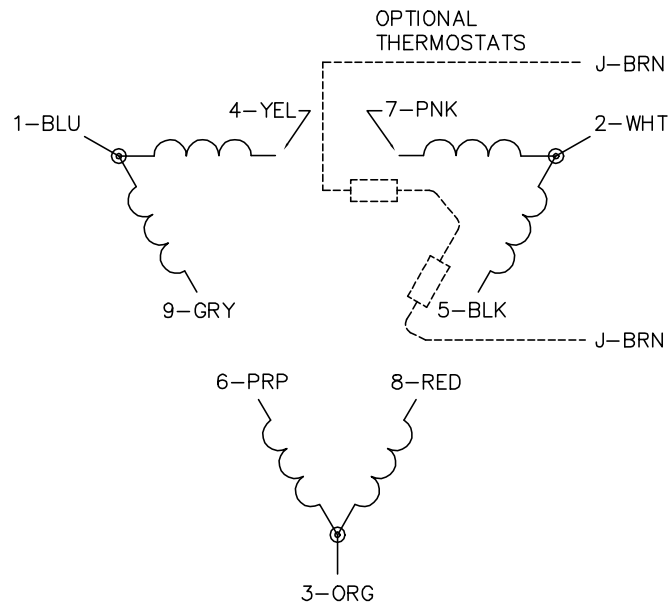
50 HP 3 PH 60 HZ 1775 RPM 460 V 1288M

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





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.

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: ENBRIRO
MTL: -	© □	

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

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