
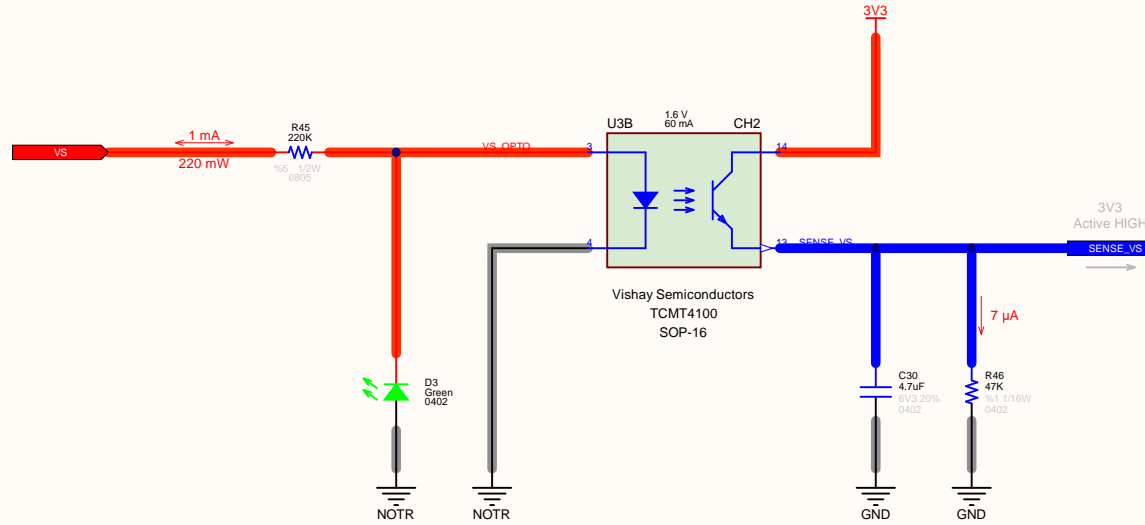

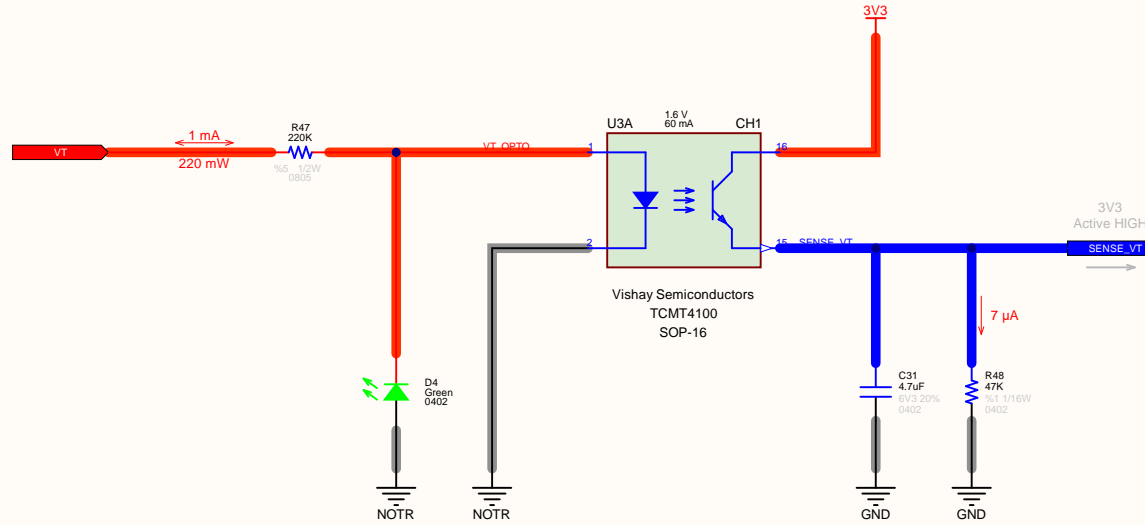



Card Edge Connector			Engineer : Gunce Akkoyun	-  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : -		
Size : A4	Project : PollyPhase Energy Analyzer		Product ID : B202AA-PCle		
			Module ID : B202AA-PCle		
Date : 19.10.2022	Time : 11:35:25	Page : 2 / 16	Version : R1		
File : Card Edge Connecgtor.SchDoc			Revision : 00.00.01		





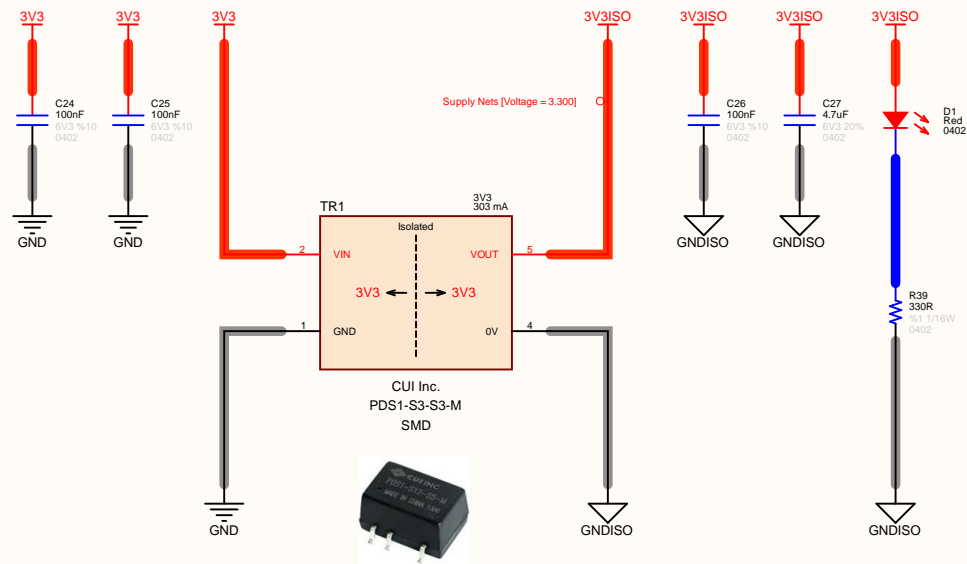
S Phase Sense Signal Isolation			Engineer : Gunce Akkoyun	-  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4	Project : PollyPhase Energy Analyzer		Customer : -		
Date : 19.10.2022	Time : 11:35:25	Page : 4 / 16	Product ID : B202AA-PCle		
File : S Phase Sense Signal Isolation.SchDoc			Module ID : B202AA-PCle		
			Version : R1		
			Revision : 00.00.01		




T Phase Sense Signal Isolation			Engineer : Gunce Akkoyun	-  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4	Project : PollyPhase Energy Analyzer		Customer : -		
Date : 19.10.2022	Time : 11:35:25	Page : 5 / 16	Product ID : B202AA-PCle		
File : T Phase Sense Signal Isolation.SchDoc			Module ID : B202AA-PCle		
			Version : R1		
			Revision : 00.00.01		

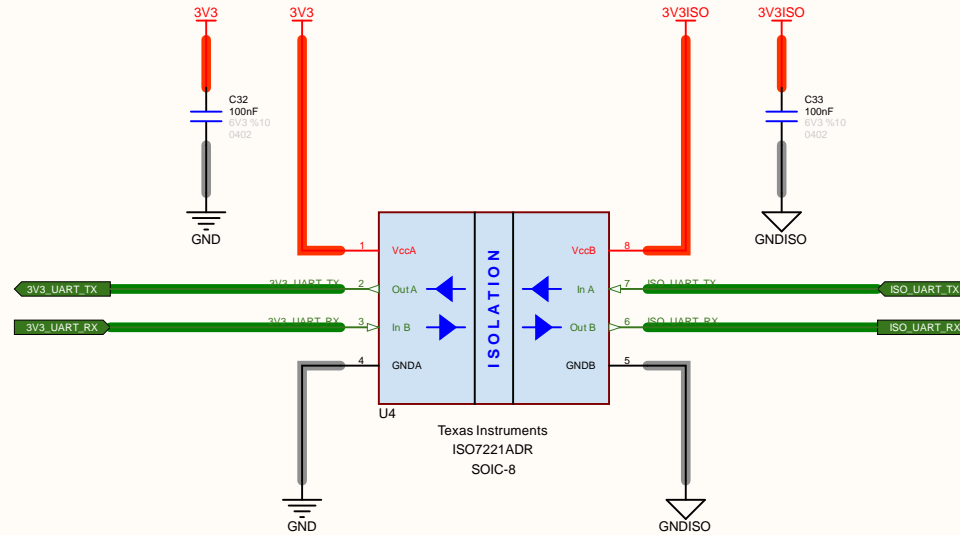
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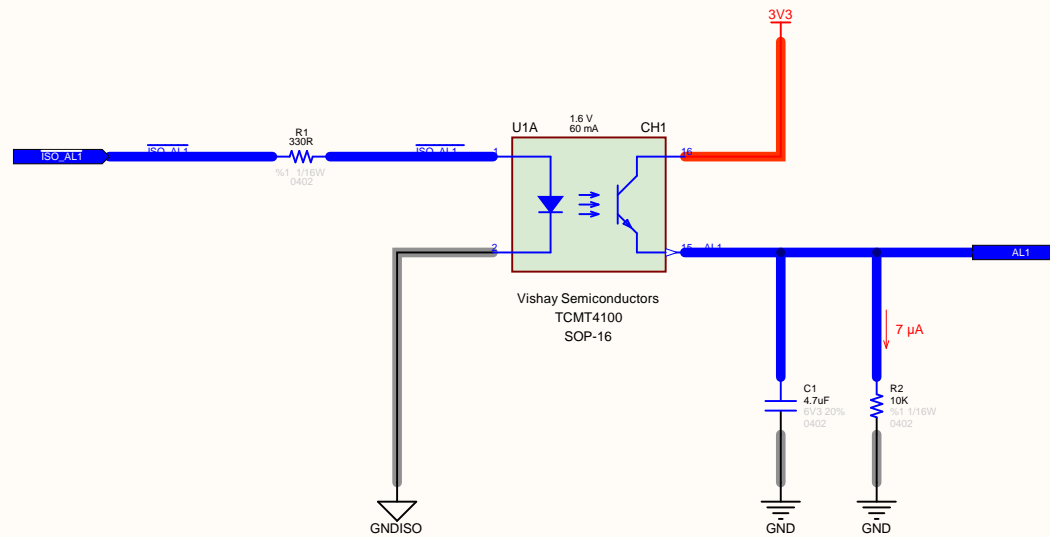
Power Isolation			Engineer : Gunce Akkoyun	- Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : -		
Size : A4			Product ID : B202AA-PCle		
Project : PollyPhase Energy Analyzer			Module ID : B202AA-PCle		
Date : 19.10.2022	Time : 11:35:25	Page : 6 / 16	Version : R1		
File : Power Isolation.SchDoc			Revision : 00.00.01		




UART Isolation			Engineer : Güne Akkoyun	- Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4			Customer : -		
Project : PollyPhase Energy Analyzer			Product ID : B202AA-PCle		
Date : 19.10.2022			Module ID : B202AA-PCle		
Time : 11:35:25			Version : R1		
Page : 7 / 16			File : UART Comm Isolation.SchDoc	Revision : 00.00.01	

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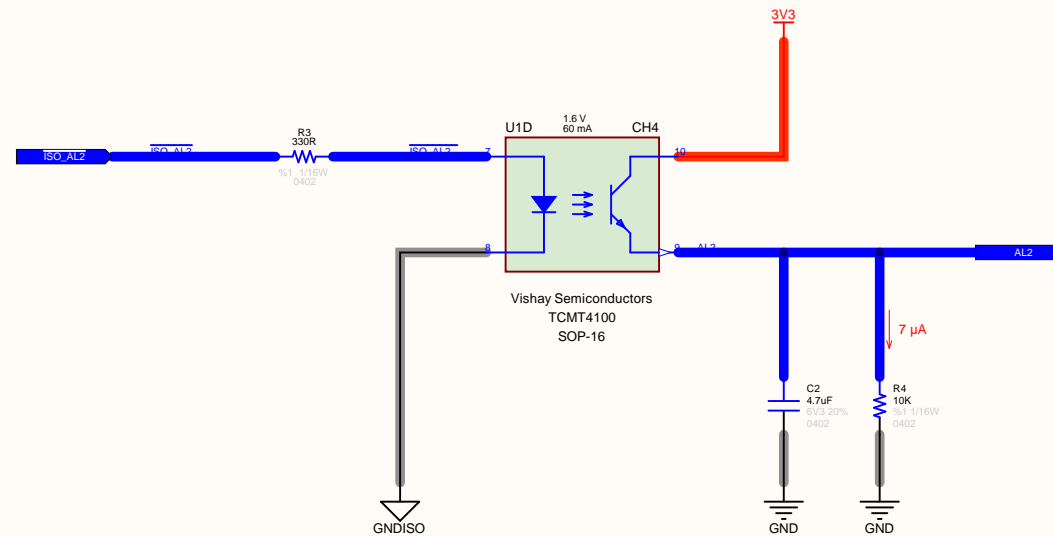
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AL1 Signal Isolation				Engineer : Gunce Akkoyun	-  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4		Project : PollyPhase Energy Analyzer		Customer : -		
Date : 19.10.2022		Time : 11:35:25		Product ID : B202AA-PCle		
		Page : 8 / 16		Module ID : B202AA-PCle		
File : AL1 Signal Isolation.SchDoc				Version : R1		
				Revision : 00.00.01		




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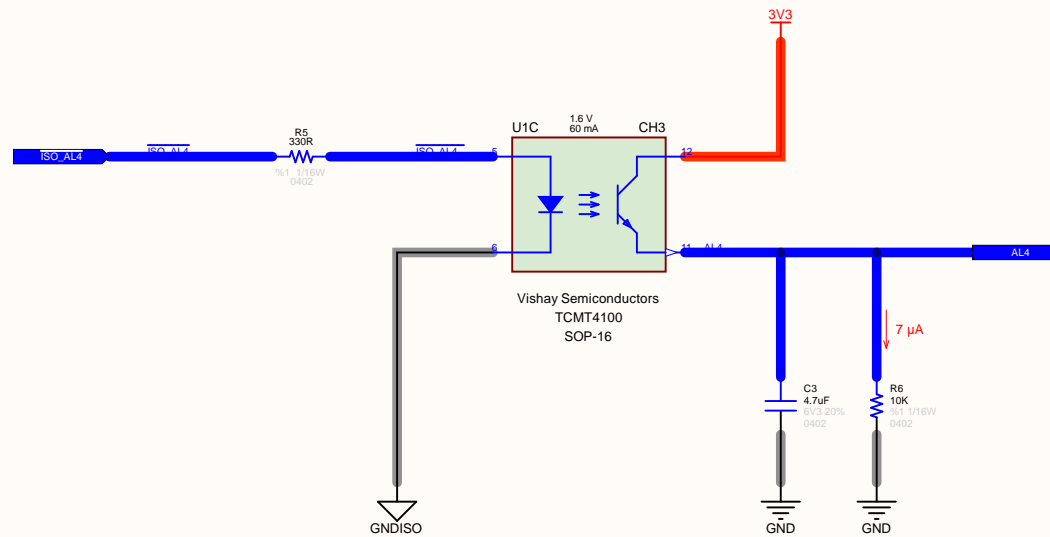


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AL2 Signal Isolation			Engineer : Gunce Akkoyun	-  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
			Customer : -		
Size : A4	Project : PollyPhase Energy Analyzer		Product ID : B202AA-PCle		
			Module ID : B202AA-PCle		
Date : 19.10.2022	Time : 11:35:25	Page : 9 / 16	Version : R1		
File : AL2 Signal Isolation.SchDoc			Revision : 00.00.01		

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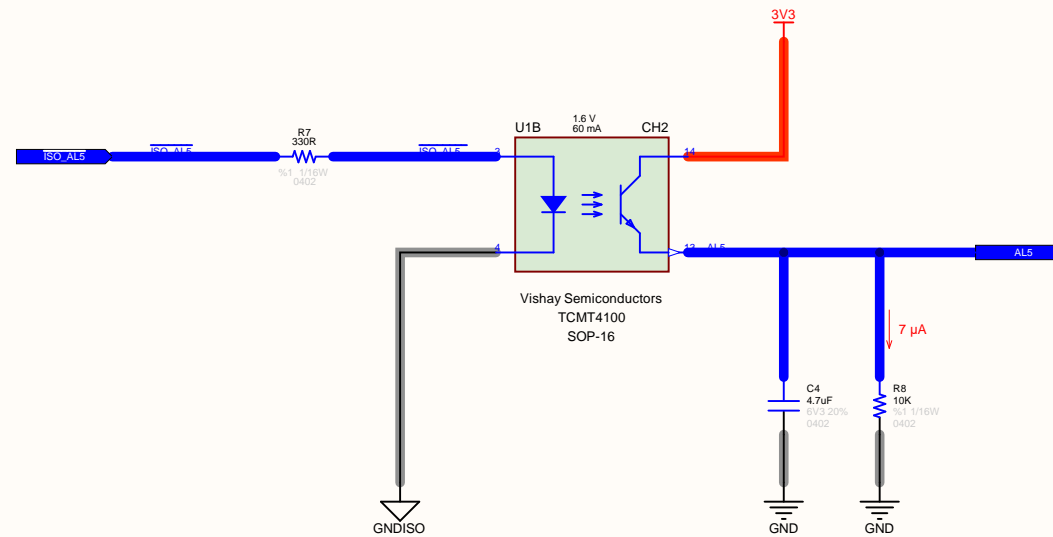


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AL4 Signal Isolation				Engineer :	Gunce Akkoyun	- Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4		Project : PollyPhase Energy Analyzer		Customer :	-		
Date : 19.10.2022		Time : 11:35:25		Product ID :	B202AA-PCle		
File : AL4 Signal Isolation.SchDoc		Page : 10 / 16		Module ID :	B202AA-PCle		
				Version :	R1		
				Revision :	00.00.01		

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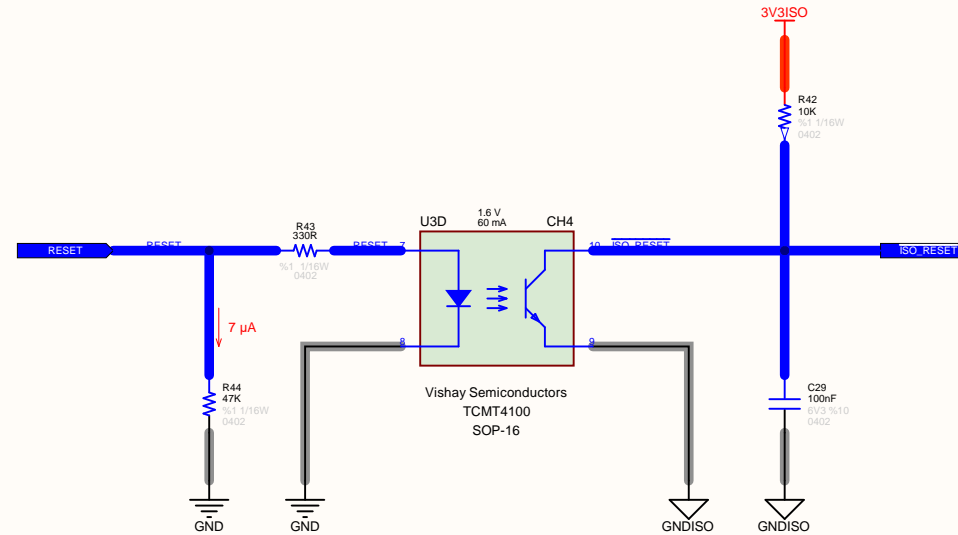


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AL5 Signal Isolator				Engineer : Gunce Akkoyun	-  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4		Project : PollyPhase Energy Analyzer		Customer : -		
Date : 19.10.2022		Time : 11:35:25		Product ID : B202AA-PCIe		
File : AL5 Signal Isolation.SchDoc		Page : 11 / 16		Module ID : B202AA-PCIe		
				Version : R1		
				Revision : 00.00.01		

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Reset Signal Isolator			Engineer : Gunce Akkoyun	-  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4		Project : PollyPhase Energy Analyzer	Customer : -		
Date : 19.10.2022	Time : 11:35:25	Page : 12 / 16	Product ID : B202AA-PCle		
File : Reset Signal Isolation.SchDoc			Module ID : B202AA-PCle		
			Version : R1		
			Revision : 00.00.01		

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A

A

B

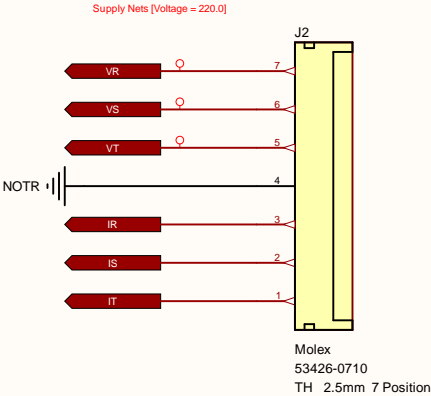
B

C


C

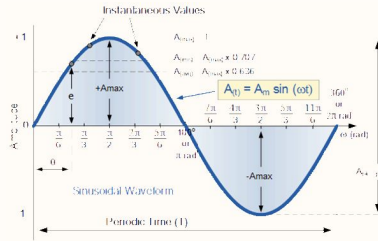
D

D



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Energy Inputs			Engineer : Gunce Akkoyun	-  Buyuk Kayacik Mah. 4. OSB 103. Cad. No : 12 Selcuklu / Konya Türkiye	
Size : A4			Customer : -		
Project : PollyPhase Energy Analyzer			Product ID : B202AA-PCle		
Date : 19.10.2022			Module ID : B202AA-PCle		
Time : 11:35:25			Version : R1		
Page : 13 / 16			Revision : 00.00.01		
File : Energy Inputs.SchDoc					



$V_{rms} = 220V$   
 $V_{max} = V_{rms} / 0.707 = 312V$   
 $V_{pk-pk} = 624V$

$V_{max} = 312V$   
 $R1 = 2000K$   
 $R2 = 750R$   
 $V_{out} = (V_{in} \times R2) / (R1 + R2)$   
 $V_{out} = (312 \times 750) / (2000000 + 750)$   
 $V_{out} = 0V117$

max : 160  $\mu A$   
max : 48.65 mW

$V_{out\_max} = 117mV$

MAX78630 Vin Range = -250mV - + 250mV  
Module Max Input Range = 667V pk-pk  
Module Max Input Range = 471Vrms

Voltage Divider Resistors

Filter Capacitors

Filter Capacitors

$F = 50Hz$   
Impedance = 31831R  
 $I_{c\_max} = 3.68 \mu A$

$F = 50Hz$   
Impedance = 3183099R  
 $I_{c\_max} = 0.0368 \mu A$

### 3 Phase Voltage Dividers

Size : A4

Project : PollyPhase Energy Analyzer

Date : 19.10.2022

Time : 11:35:25

Page : 14 / 16

File : Phase Voltage Dividers.SchDoc

Engineer : Güne Akkoyun

Customer : -

Product ID : B202AA-PCle

Module ID : B202AA-PCle

Version : R1

Revision : 00.00.01

Büyük Kayalık Mah. 4. OSB  
103. Cad. No : 12  
Selçuklu / Konya Türkiye

stf



