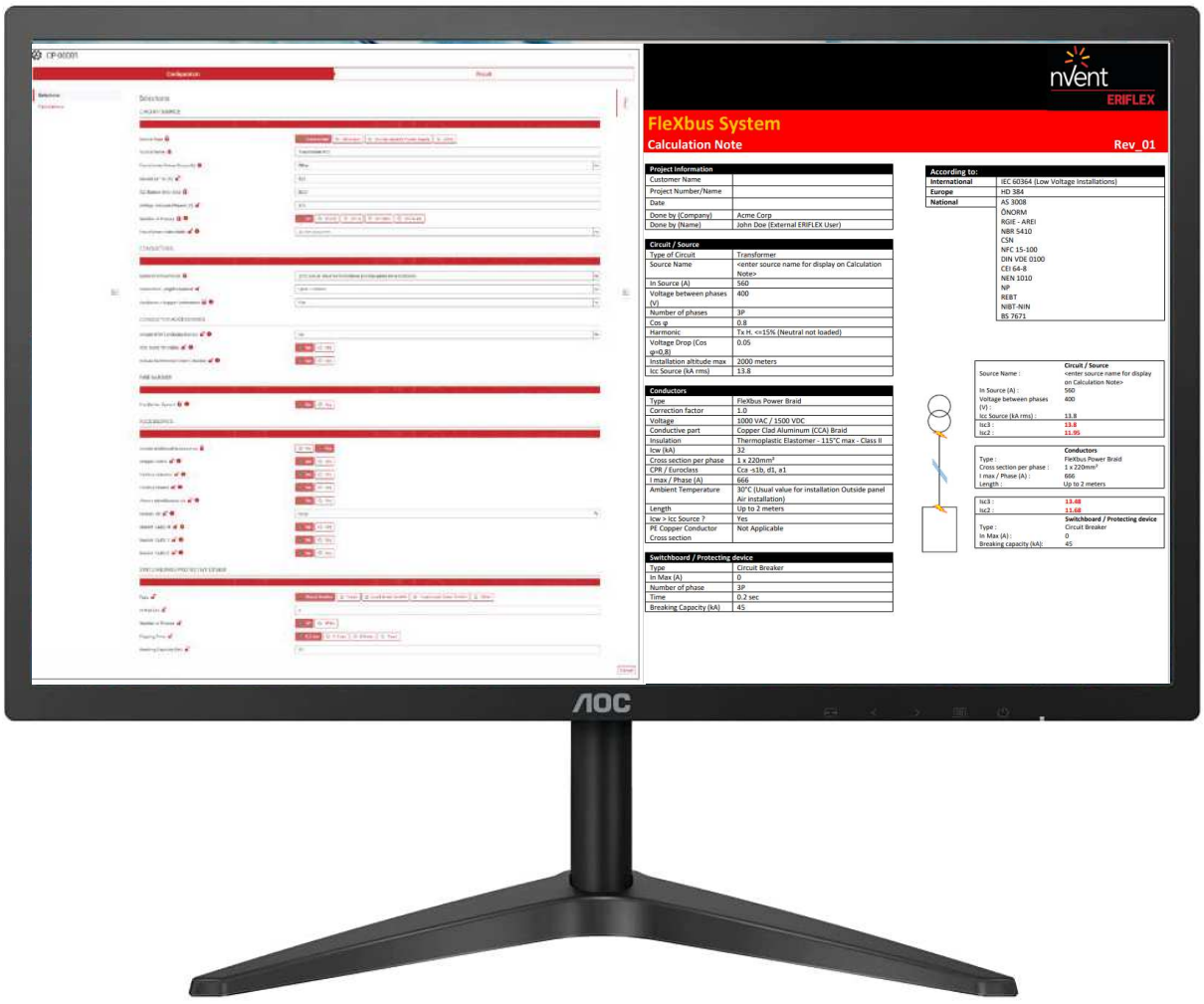
FleXbus System

Online Configurator – Instruction for use



1) Introduction :

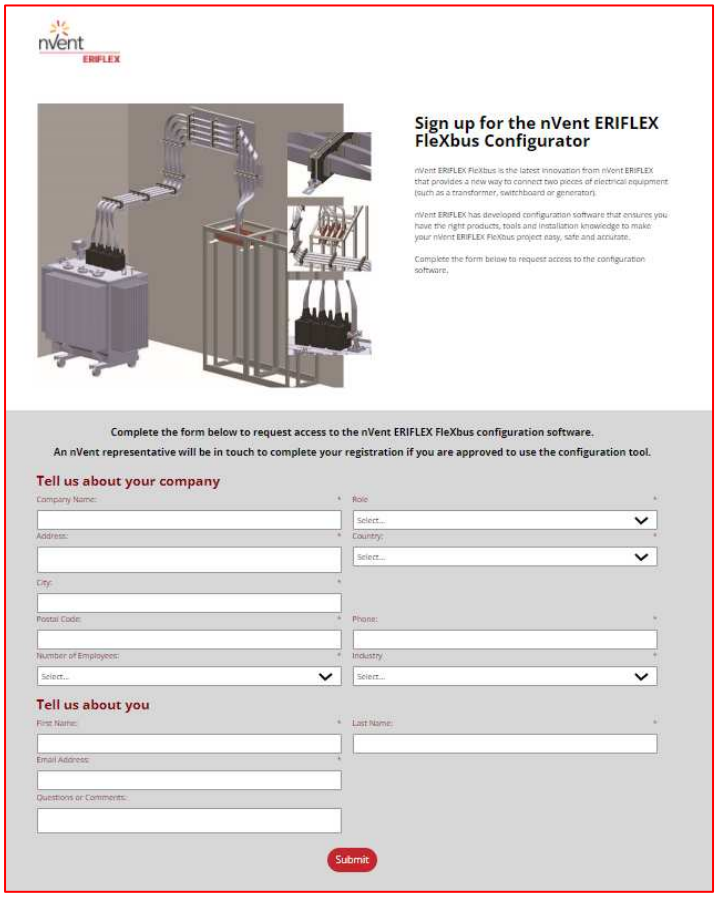
FleXbus Calculation and Selection tool is available online.
This tool can determine the Bill of Material (BoM) for your configuration and provides calculation notes according to IEC 60364 Low-Voltage Electrical Installations, according to the related European Standard (HD384) and according to the National Standards like NFC 15-100, DIN VDE 0100, RGIE/AREI, CEI 64-8, BS7671, etc.

Note. In order to simplify our Software, some specific criteria or derating factors are not part of the configuration possibilities:

- Altitude of the installation (up to 2000 meters by default)
- Frequency (up to 60 Hz by default)
- Number of conductors per phase (calculated by the Software and offer by default one conductor per phase when possible – not possible to force the configuration with 2 conductors per phase)
- Harmonics (Third harmonic < to 15% by default)

2) Registration :

Register online to: https://go.nvent.com/FleXbusConfigurator
Complete the form to request access to the nVent ERIFLEX FleXbus configuration software and click on the "Submit" button.
An nVent representative will be in touch to complete your registration if you are approved to use the configuration tool. You will receive your access approval by Email within 3 working days maximum.
All fields must be filled in.

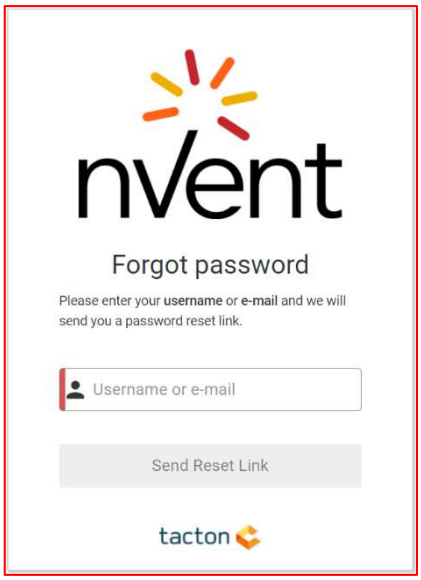


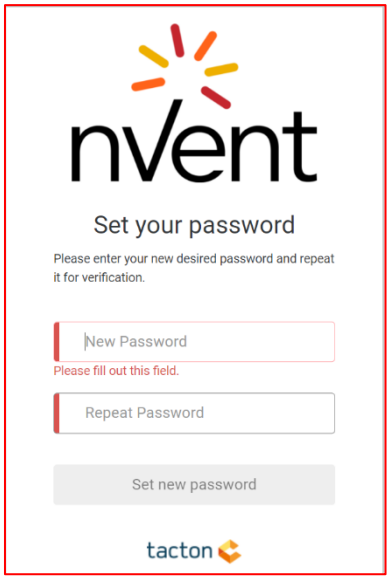
3) First connection

Click on the URL link been provided by Email

Sign in :

- Click on “Forgot password”
- At the page “Forgot password”, Enter your Email Address (the one you’ve provided on the registration page)
- Click on « Send Reset Link »
- An e-mail has been sent to the associated user account with instructions on how to change your password
- Click on the link provided on the Email
- Enter your New Password. Note : Passwords must be at least 12 characters long. Passwords must use all of the four available character types: lowercase letters, uppercase letters, numbers, and symbols.
- Click on “Set new Password”
- Then, you can “Sign in”
- We recommend that you save URL access links to your favorites





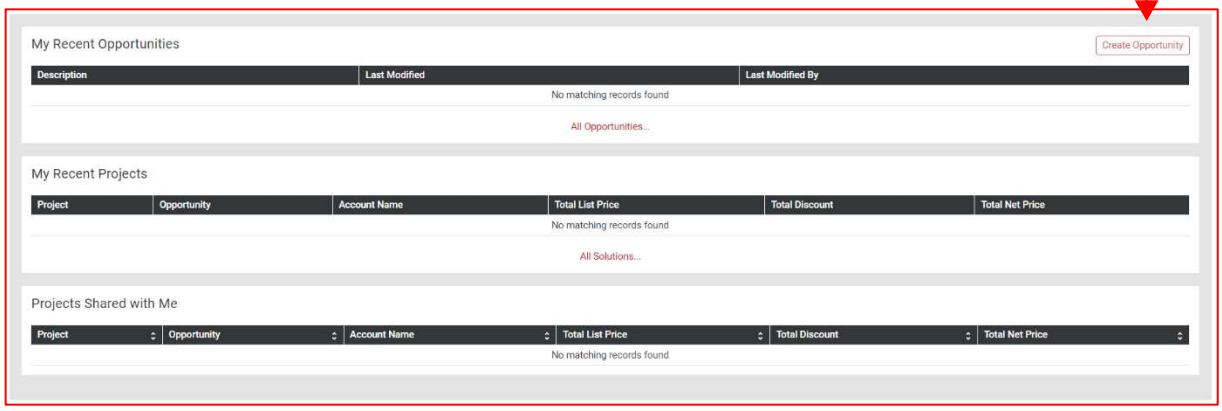
4) Create Opportunity

The main software entrance page will show you :

- Your recent Opportunities
- Your Recent Projects
- Projects Shared with you

For the first connection, those 3 sections will be blank.

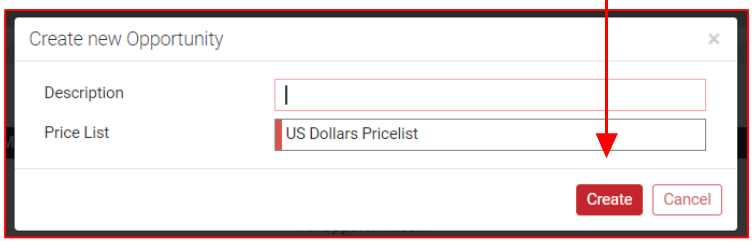
Click on « Create Opportunity » Button



Enter the description of your opportunity (Example : your customer name and project name)

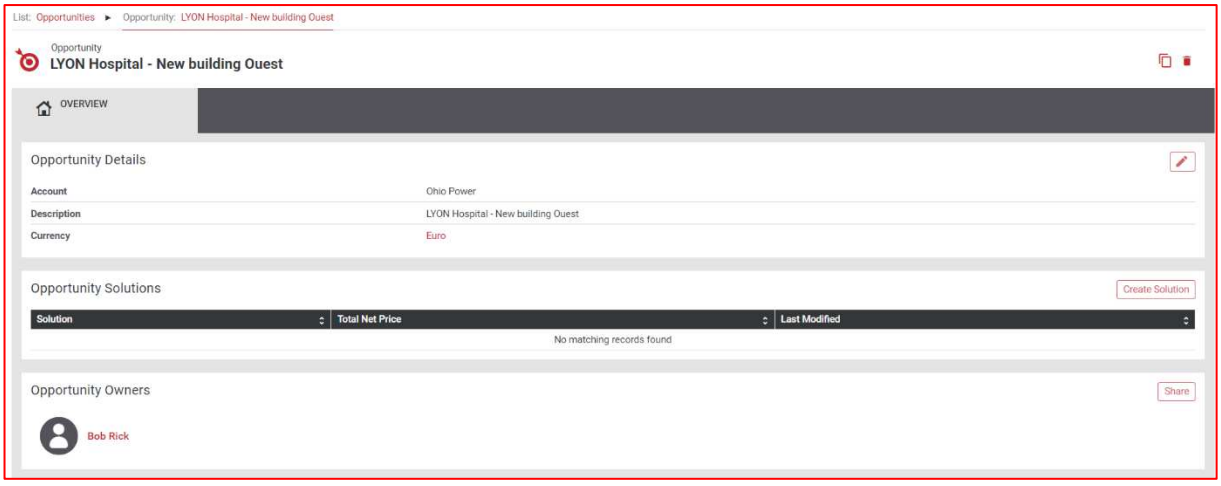
Select the Price list currency you want for the quote

Click on « Create » button



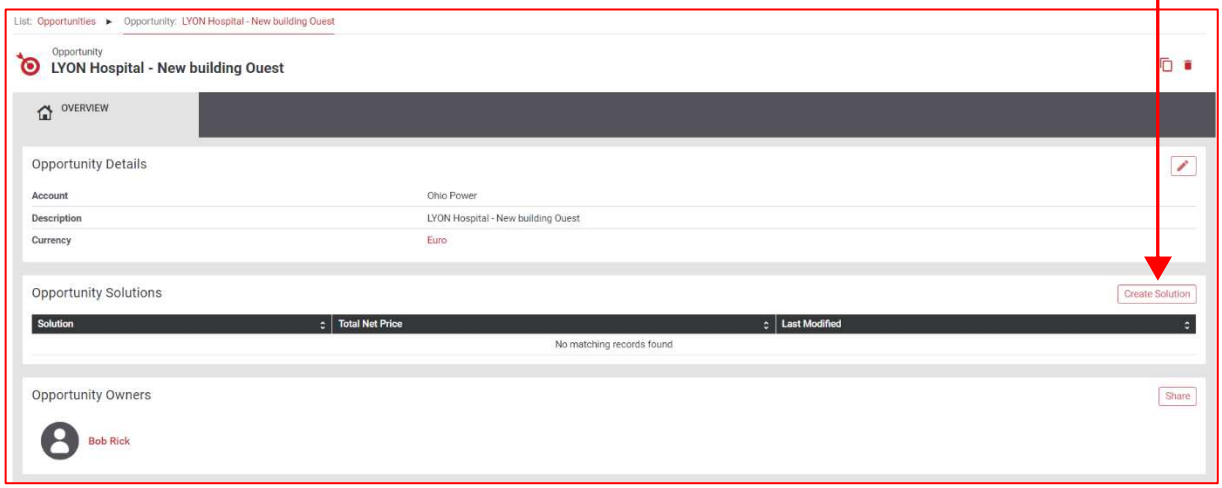
Your « Opportunity » is now created. At this stage you can :

- Duplicate this opportunity
- Delete this opportunity
- Edit your opportunity (Change Description and Currency)



5) Create a Solution

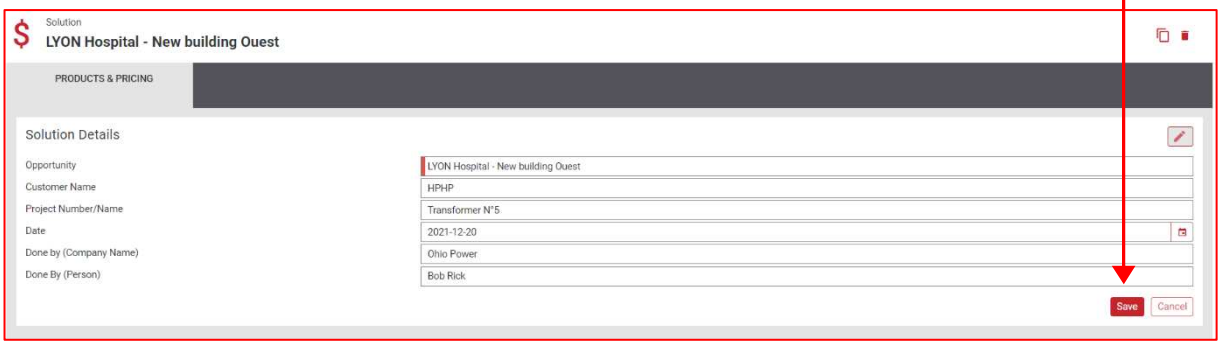
Click on « Create Solution » Button



Click on « Edit » Button and fulfill :

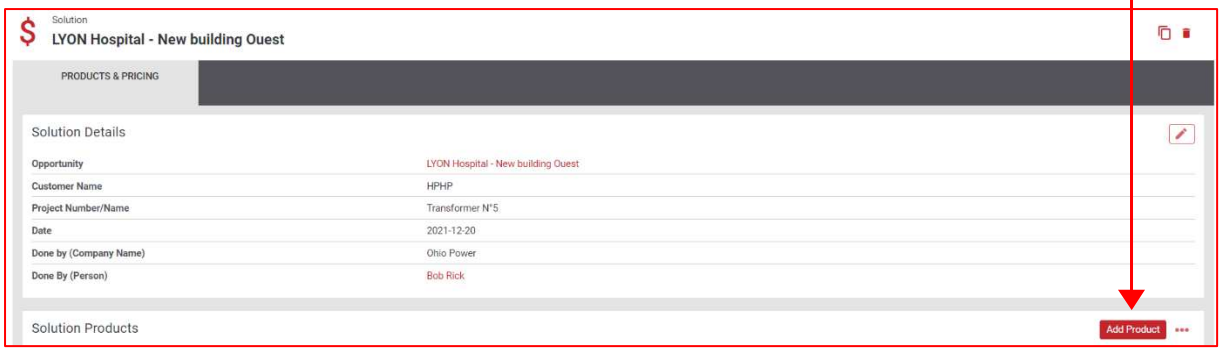
- Your Customer Name
- Project Number/Name
- Date

Click on “Save” Button



6) Add Product

Click on « Add Product » Button



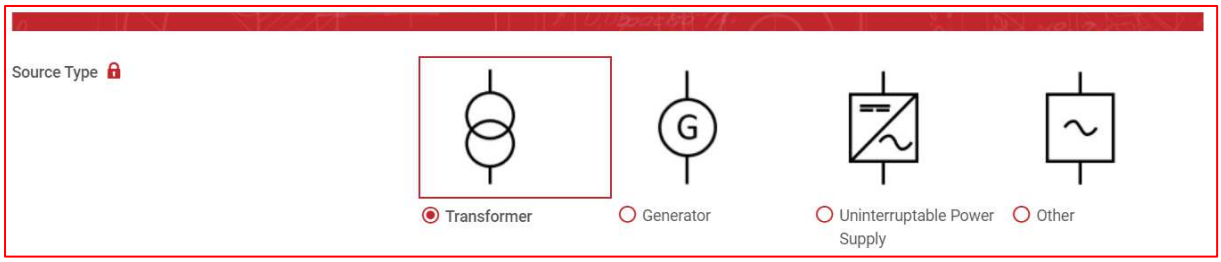
Click on the FleXbus illustration in order to start to configure the appropriate FleXbus system solution

7) Configure FleXbus system

Note:

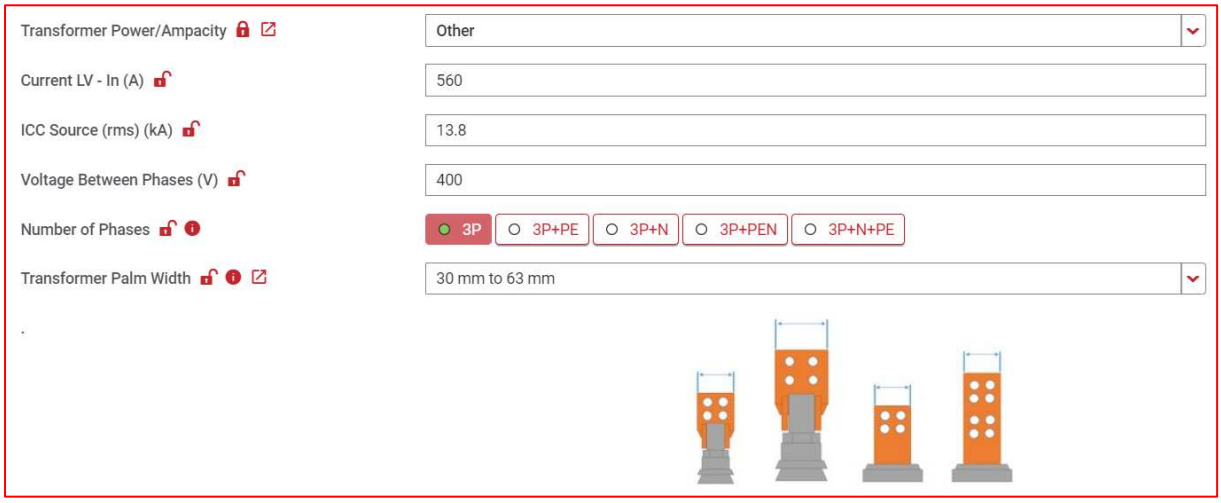
- For each Field, by clicking on this icon, an additional information page will popup
- For each Field, by clicking on this icon, you will open the related product web page

Define the source/power supply type

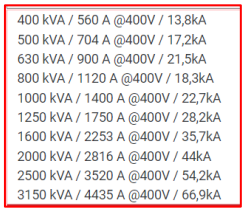


Indicate the name of the source/power supply (Needed for the Calculation Note)

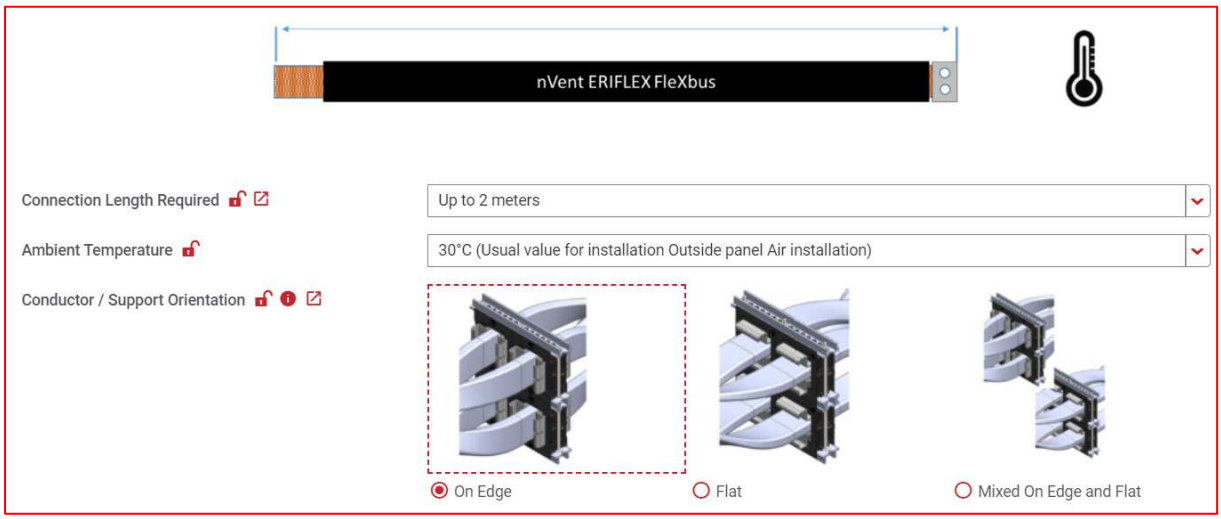
Provide the Ampacity/Current, the ICC Source (rms), the Voltage between phases, the number of phases and the palm width of the Transformer/power supply.



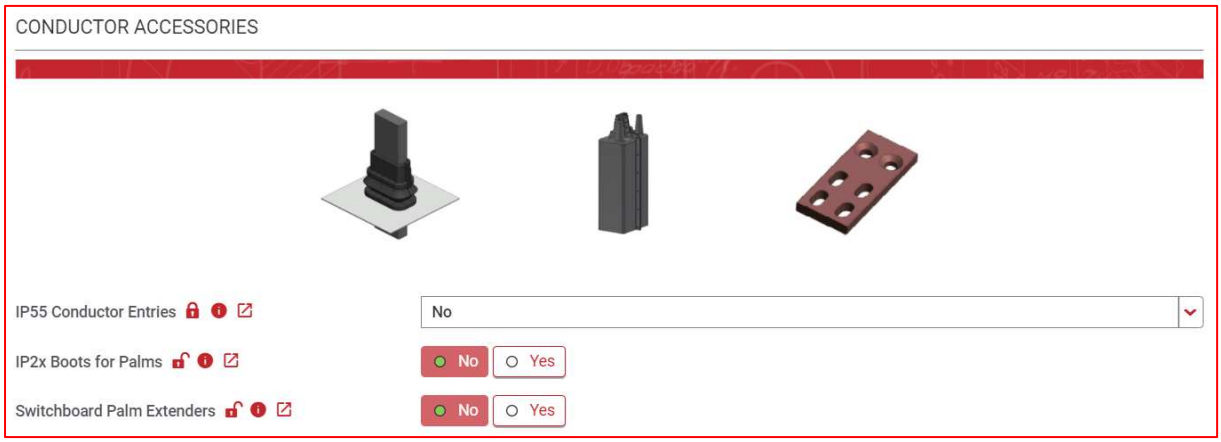
For transformer source type, it is possible to select one of those predefined values



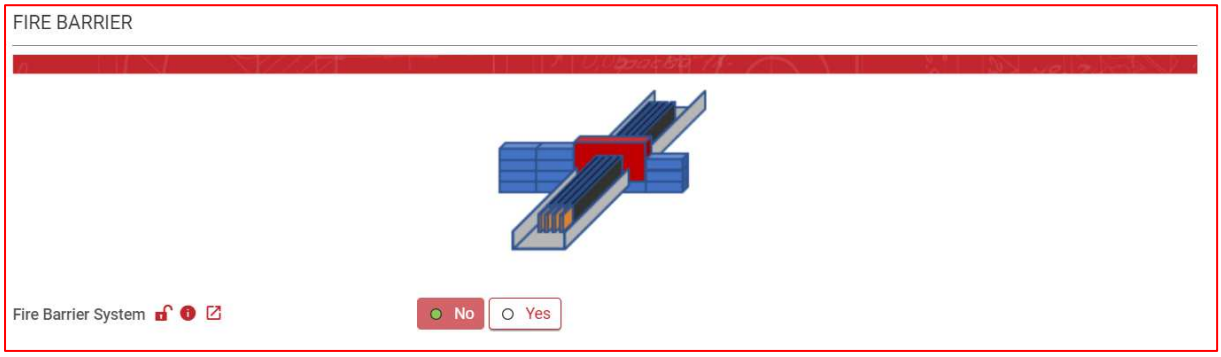
Define Conductors length, the requested ambient temperature around the conductors and the Conductor / Support Orientation



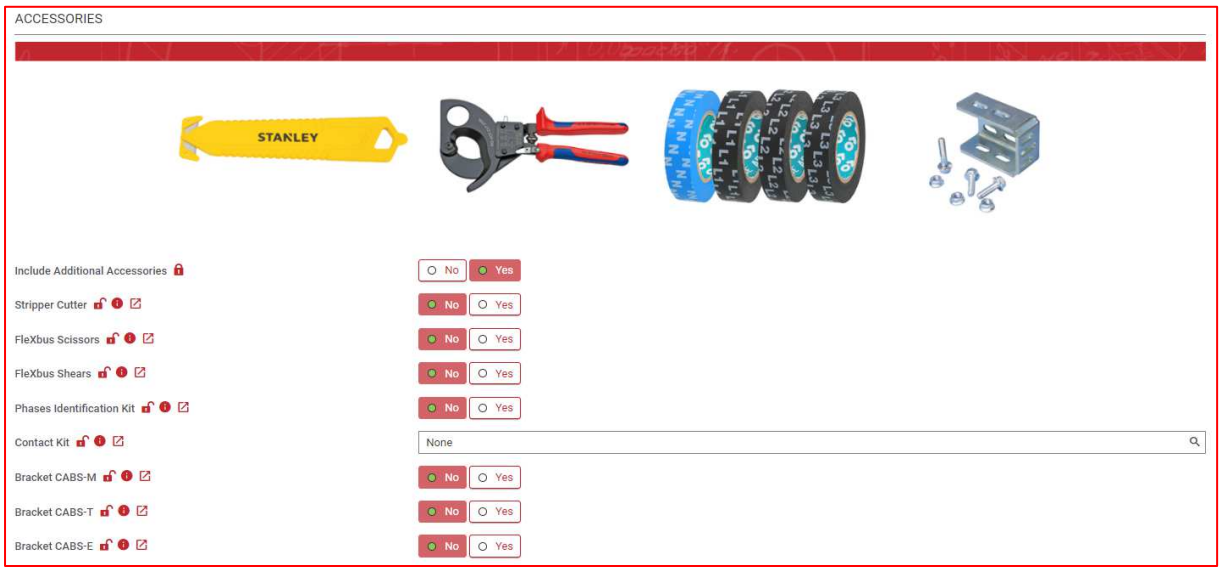
Select optional conductor accessories



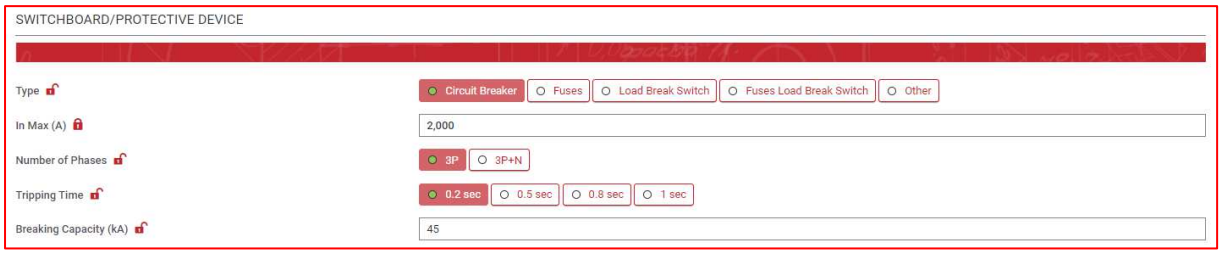
Define the fire Barrier system if needed



Select other optional accessories



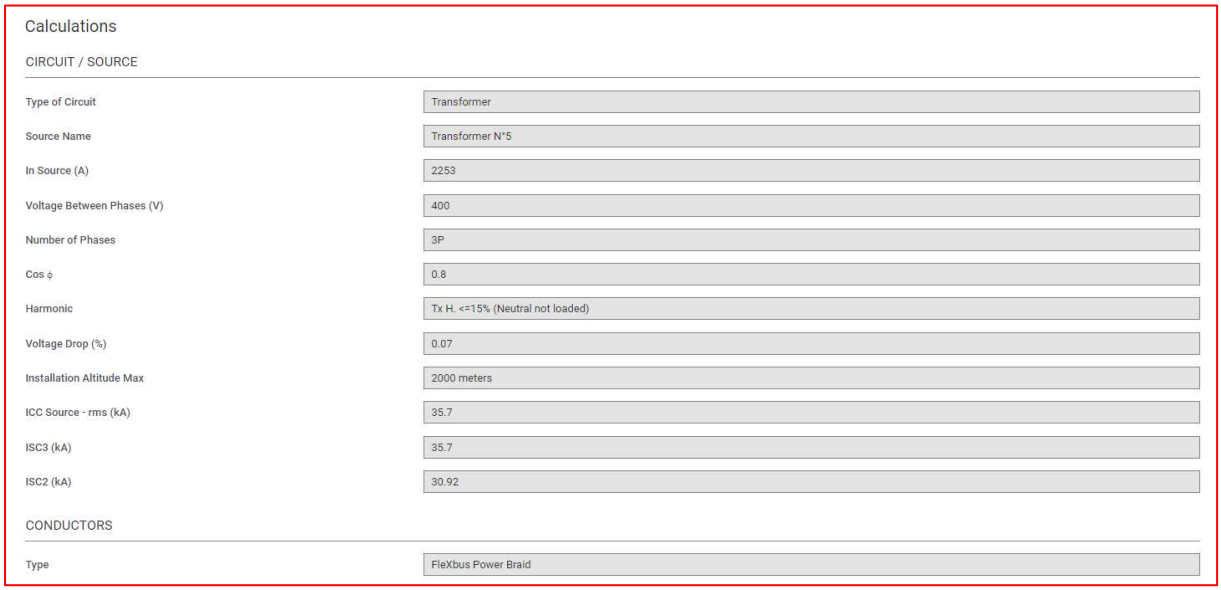
Define the downstream Switchboard / protecting device information



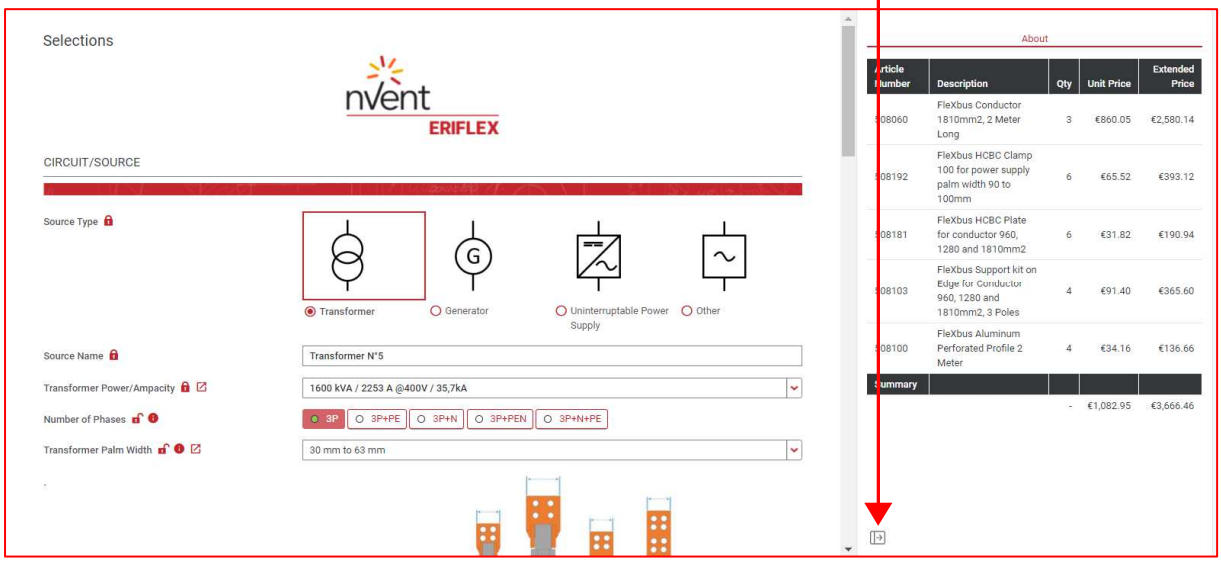
During the FleXbus configuration, at any time you can :

- See the calculation note by clicking on “Calculations” at the top left of the screen

View of the “Calculations” page

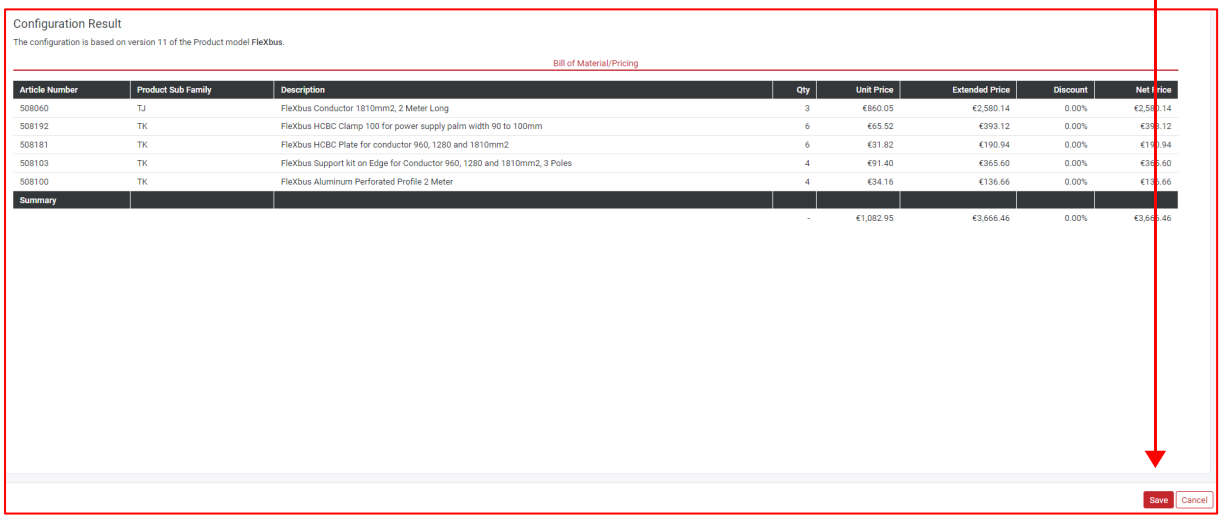


- See the list of products generated live by the software (Bom – Bill of material) by clicking on this icon



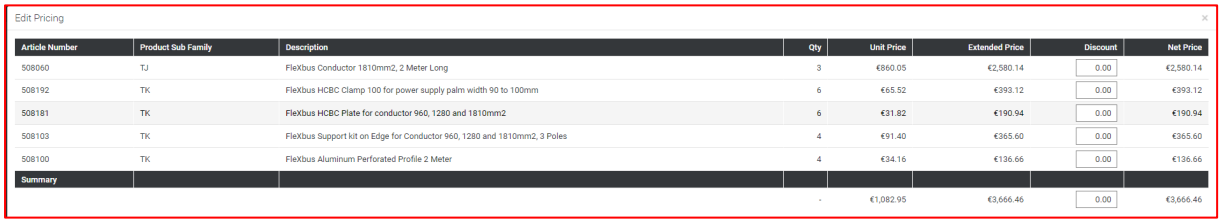
When you're done with your configuration, click on "Result" button at the top right of the screen

You can see then, the Bill of material of your configuration
If you are ok with your configuration, click on "Save" button



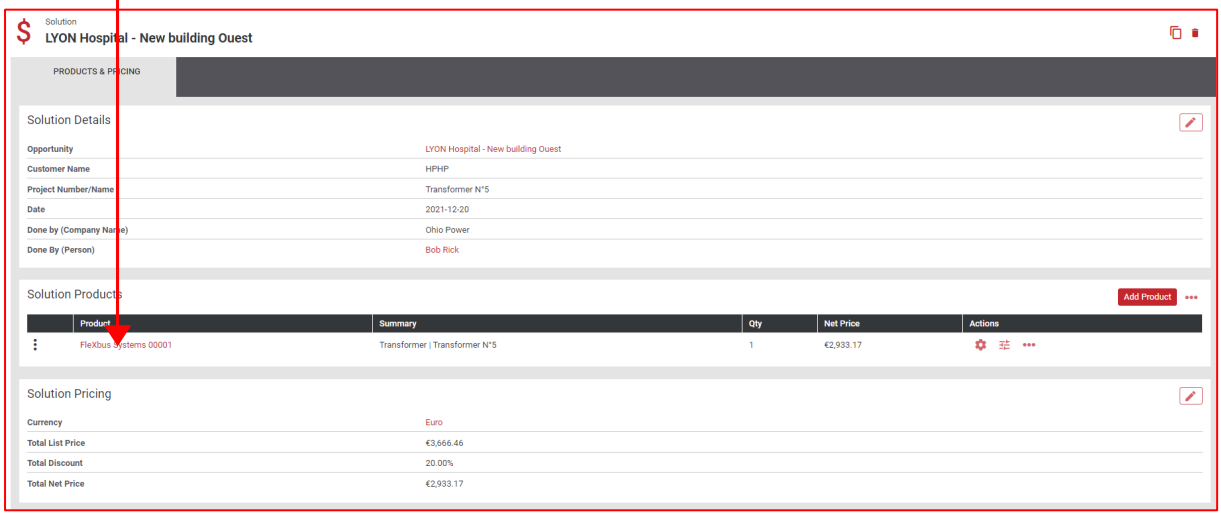
Your solution is now registered and linked to your opportunity.
To add your discount, click on this button

Discounts can be entered at the total price or product by product. Then, click on "save" button

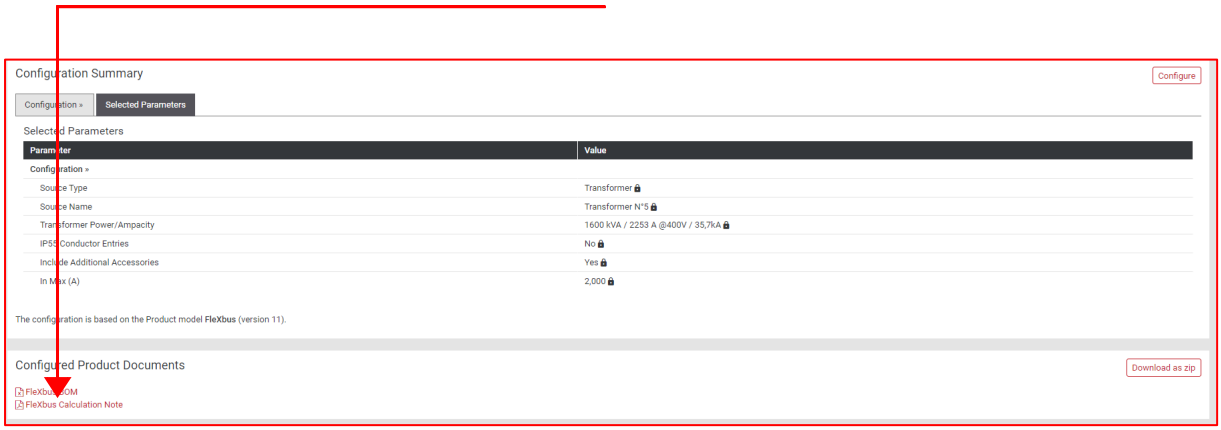


8) Generate and Download the Bill of material and the calculation note documents

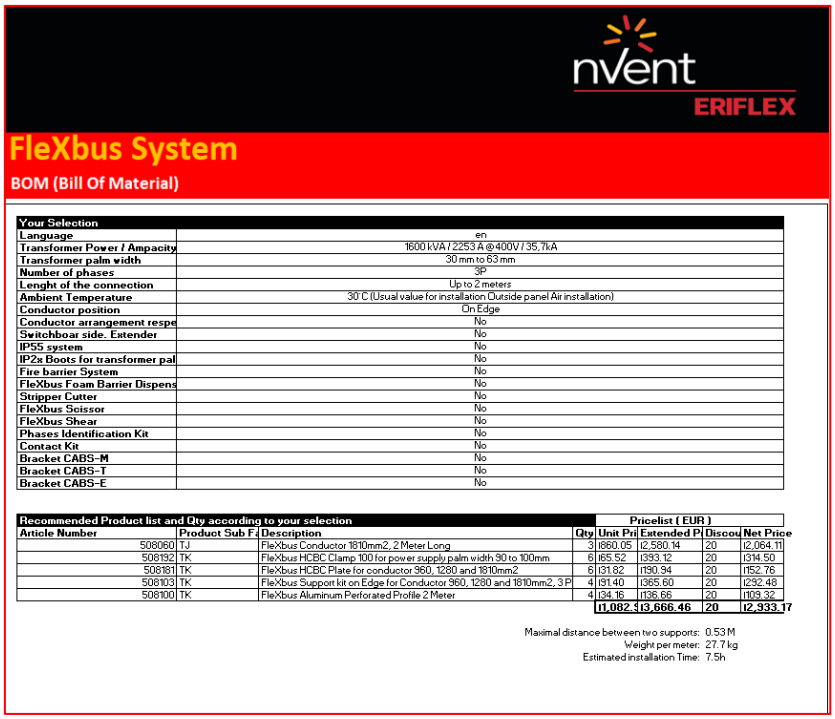
Click on the Product Solution been configured



Click on “FleXbus BOM” (Bill of material generated on Excel file)
Click on “FleXbus Calculation note” (Generated on PDF File)



Example of Excel “BOM (Bill Of Material)” Generated



FleXbus System

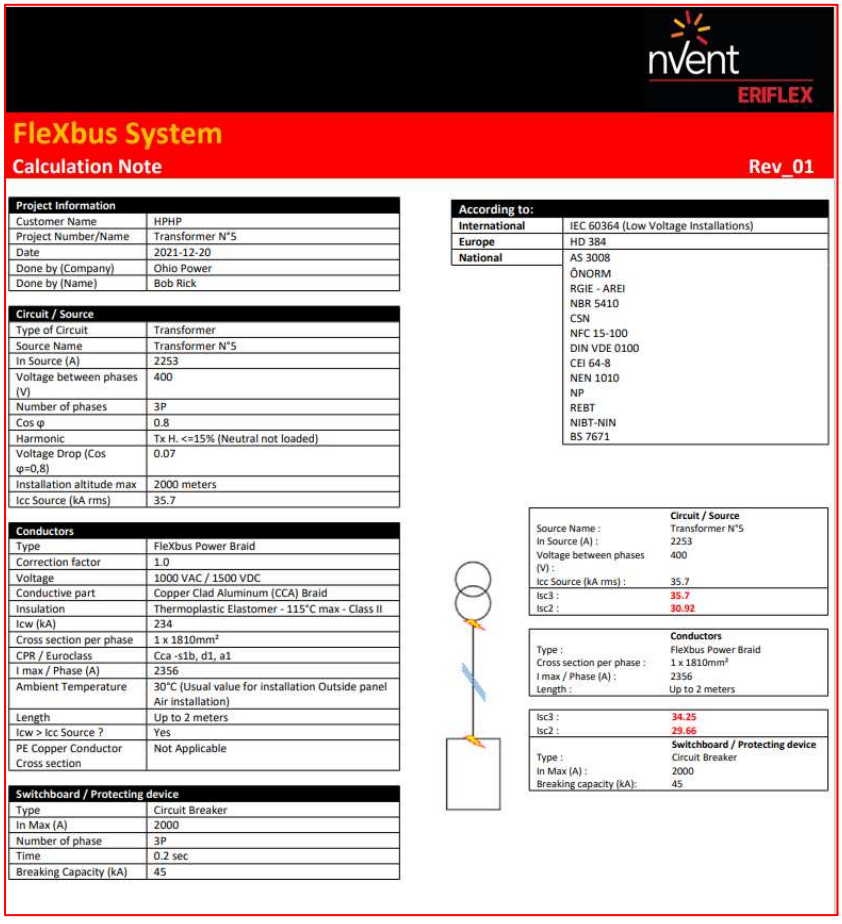
BOM (Bill Of Material)

Your Selection	
Language	en
Transformer Power / Ampacity	1600 kVA / 2253 A @ 400V / 35,7kA
Transformer palm width	30 mm to 63 mm
Number of phases	3P
Lenght of the connection	Up to 2 meters
Ambient Temperature	30°C (Usual value for installation Outside panel Air installation)
Conductor position	On Edge
Conductor arrangement respe	No
Switchboar side. Extender	No
IP55 system	No
IP2x Boots for transformer pal	No
Fire barrier System	No
FleXbus Foam Barrier Dispens	No
Stripper Cutter	No
FleXbus Scissor	No
FleXbus Shear	No
Phases Identification Kit	No
Contact Kit	No
Bracket CABS-M	No
Bracket CABS-T	No
Bracket CABS-E	No

Recommended Product list and Qty according to your selection				Pricelist (EUR)			
Article Number	Product Sub Fa	Description	Qty	Unit Pri	Extended P	Discou	Net Price
508060	TJ	FleXbus Conductor 1810mm2, 2 Meter Long	3	860.05	2,580.14	20	2,064.11
508192	TK	FleXbus HCBC Clamp 100 for power supply palm width 90 to 100mm	6	65.52	393.12	20	314.50
508181	TK	FleXbus HCBC Plate for conductor 960, 1280 and 1810mm2	6	31.82	190.94	20	152.76
508103	TK	FleXbus Support kit on Edge for Conductor 960, 1280 and 1810mm2, 3 P	4	91.40	365.60	20	292.48
508100	TK	FleXbus Aluminum Perforated Profile 2 Meter	4	34.16	136.66	20	109.32
				1,082.1	3,666.46	20	2,933.17

Maximal distance between two supports: 0.53 M
Weight per meter: 27.7 kg
Estimated installation Time: 7.5h

Example of PDF “Calculation Note” Generated



FleXbus System

Calculation Note Rev_01

Project Information	
Customer Name	HPHP
Project Number/Name	Transformer N°5
Date	2021-12-20
Done by (Company)	Ohio Power
Done by (Name)	Bob Rick

Circuit / Source	
Type of Circuit	Transformer
Source Name	Transformer N°5
In Source (A)	2253
Voltage between phases (V)	400
Number of phases	3P
Cos φ	0.8
Harmonic	Tx H. <=15% (Neutral not loaded)
Voltage Drop (Cos φ=0,8)	0.07
Installation altitude max	2000 meters
Icc Source (kA rms)	35.7

Conductors	
Type	FleXbus Power Braid
Correction factor	1.0
Voltage	1000 VAC / 1500 VDC
Conductive part	Copper Clad Aluminum (CCA) Braid
Insulation	Thermoplastic Elastomer - 115°C max - Class II
Icw (kA)	234
Cross section per phase	1 x 1810mm²
CPR / Euroclass	Cca -s1b, d1, a1
I max / Phase (A)	2356
Ambient Temperature	30°C (Usual value for installation Outside panel Air installation)
Length	Up to 2 meters
Icw > Icc Source ?	Yes
PE Copper Conductor Cross section	Not Applicable

Switchboard / Protecting device	
Type	Circuit Breaker
In Max (A)	2000
Number of phase	3P
Time	0.2 sec
Breaking Capacity (kA)	45

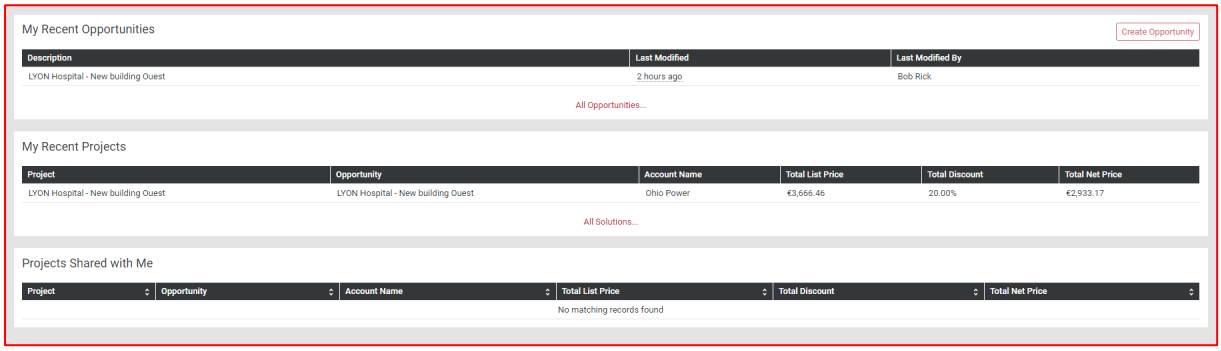
According to:	
International	IEC 60364 (Low Voltage Installations)
Europe	HD 384
National	AS 3008 ÖNORM RGIE - AREI NBR 5410 CSN NFC 15-100 DIN VDE 0100 CEI 64-8 NEN 1010 NP REBT NIBT-NIN BS 7671

Circuit / Source	
Source Name :	Transformer N°5
In Source (A) :	2253
Voltage between phases (V) :	400
Icc Source (kA rms) :	35.7
Isc3 :	35.7
Isc2 :	30.92

Conductors	
Type :	FleXbus Power Braid
Cross section per phase :	1 x 1810mm²
I max / Phase (A) :	2356
Length :	Up to 2 meters
Isc3 :	34.25
Isc2 :	29.66

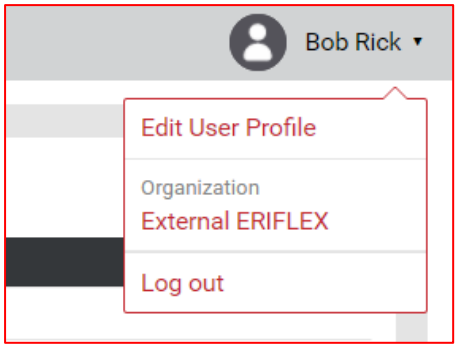
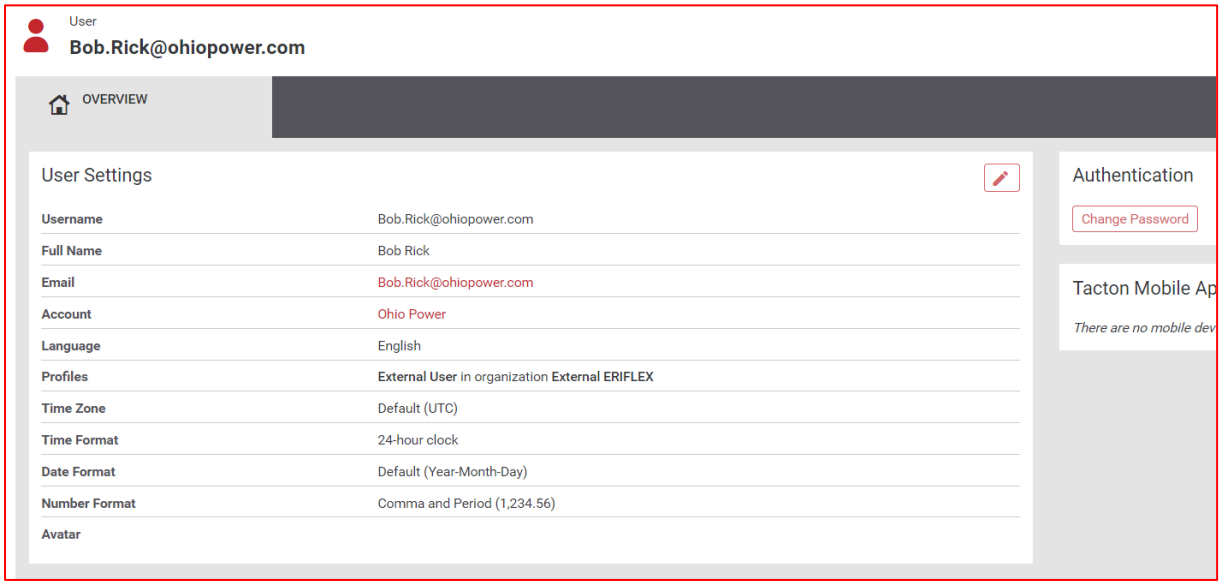
Switchboard / Protecting device	
Type :	Circuit Breaker
In Max (A) :	2000
Breaking capacity (kA):	45

At your next connection, you will arrive to the main entrance page.
You can Create a new opportunity or return to any Opportunities or Projects that have been registered to Edit them.



9) Edit your profile setting

At the top right of the screen, click on your Profile name, then click on « Edit User Profile »



From this page, by clicking on the “Edit” button , you can change various parameters, including the Language setup, Password etc…