



January, 2015

# Breakers & Switches Configurator Introduction

# Configurator tool overview



Switches



Molded Case Circuit Breakers



Power/Air Circuit Breakers



Accessories

- The LPBS configurator tool allows easy configuration and pricing a circuit breaker or switch.
- It also provides links to additional tools and information and the option to load a new configuration into the ERP system.
- The current release contains four groups with one to multiple configurators in each group.
  - Switches: Heavy duty safety switch
  - Molded case circuit breakers: T1-T7, T7M, T8, Formula
  - Power/Air circuit breakers: Emax, Emax 2
  - Accessories: Loose accessories for each product line in the tool
- Future releases will incorporate increased functionality, additional product line configurators, configuration by application, personalized accounts with account specific pricing, initiation of the official quote process, etc.

# Navigation

Selector

Quotes (0)

“Selector” returns to the main product group page.

“Quotes” goes to the cart. Any items saved to the cart during that session will appear there.

USCON Code

→ OK

Enter any US part number here to jump directly to its configuration.



Switches

ABB's disconnect switches come in fusible or non-fusible and open or enclosed variations. Additionally, they are either UL 98 or UL508 listed.

- The open style non-fusible switches have amperage sizes from 16A – 3150A.
- The fusible range is 30A - 1200A. All sizes are compact, heavy duty, 600V disconnect switches.
- The enclosed switches meet customer requirements in terms of safety, ease of installation, space savings and operational convenience. They are available as non-fusible from 16-3150A and as fusible from 30-1200A. They are NEMA rated to satisfy rugged industrial environments.



Molded Case Circuit Breakers

ABB's molded case circuit breakers are used in applications such as UL 489 and CSA C22.2 listed switchboards, UL 508 control panels and power distribution, motor protection and switch applications. ABB's molded case breakers offer an extremely high performance range from 15A to 3000A, 480V breakers up to 150kA and AC and DC solutions for all protection requirements.



Power/Air Circuit Breakers

ABB's power circuit breakers are UL 1066 listed and meet the ANSI and IEC standards for low voltage power circuit breaker protection of UL 1558 switchgear, electrical machines, plants and other switchboard or power distribution applications. They offer reliable protection with breaking capacity potential up to 200kA at 508V, withstand ratings up to 100kA and versions capable of 6000A (UL) / 6300A (IEC), 1150V (IEC) and low temperature functionality. A complete line, including switches, three and four pole and fixed and drawout versions round out the offering and enable the satisfaction of electrical installation requirements.



Accessories

Enhance a breaker or switch with optional field installable accessories. Click here for a selection of available accessories by product family.

Clicking on images or titles on any group page will go to the next level or directly into a configurator. Use the notes to help determine which one to enter.

# Configuring a product

Selector Quotes (0) Power and productivity for a better world™ **ABB**

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Emax 2 USCON Code

Undo Redo Reset Save to Cart

### Configuration

<b>2</b> Breaker/Switch*	<input type="text"/>	<b>1</b>
Application Information	Standard AC x	
Standard*	<input type="text"/>	
Operation Method	Manually operated x	
Max System Voltage (Vac)	<input type="text"/>	
Max Withstand Current (kA)	<input type="text"/>	
<b>4</b> Breaking Capacity Class*	<input type="text"/>	
Frame Amperage (A)*	<input type="text"/>	
Frame Size*	<input type="text"/>	
Number of Poles	3 poles x	<b>3</b>
Fixed/Drawout*	<input type="text"/>	

  

### Accessories

Closing Coil	None x
Spring Charging Motor	None x
Shunt Trip	None x
Undervoltage Release	None x
Ekip Supply Module	None x
Primary Communication Module	None x
Ekip Link Module	No x

### Product Info (Configuration not complete)

**Part Number**  
Z00000000XX

**Description**

**Price Lines**  
List Price: Price Pending

1. Products are configured by making selections from the drop down lists.
2. Orange text indicates that a field is mandatory and the configuration is not complete.
3. Some items are pre-selected for the most popular selections, but can be modified.
4. Additional details or information is provided by scrolling over the ? icons.

# Configuring a product

Selector Quotes (2) Power and productivity for a better world™ **ABB**

Emax 2 USCON Code

Undo Redo Reset Save to Cart

### Configuration

- Breaker/Switch: Circuit Breaker (automatic) x
- 1** Bell Alarm: Std 250V Bell Alarm x
- Application Information: Standard AC x
- Standard: UL 1066 x
- Operation Method: Manually operated x
- Max System Voltage (Vac): 508 (480) UL x
- Max Breaking Capacity (kA): 85 x
- Max Withstand Current (kA): x
- Breaking Capacity Class: H x
- Frame Amperage (A)\*:
- Rating Plug Amperage (A)\*:
- Frame Size\*:
  - 250
  - 400
  - 630
  - 800
  - 1000
  - 1200
  - 1250
  - 1600
- Trip Unit\*:
- Protection Function\*:
- Ekip Power Controller:
- Number of Poles:
- Fixed/Drawout\*:

### Product Info (Configuration not complete)

**3** Part Number: ZH00A000000XX  
Description:   
Price Lines:   
List Price: Price Pending

1. Selection fields will appear, disappear and autofill depending on prior selections.
2. Dropdown items in gray have been ruled out based on prior selections. Choosing these options may cause previous selected values to change.
3. The part number will build in the Product Info box as selections are made.

# Configuring a product

Accessories

Closing Coil	None	x	v
Spring Charging Motor	None	x	v
Shunt Trip	None	x	v
Undervoltage Release	None	x	v
Measuring Module	Ekip Measuring Pro	x	v
Voltage Outlet Mounting	Bottom (standard)	x	v
Ekip Supply Module*			v
Primary Communication Module	IEC 61850	x	v
Primary Communication Module (2)	None	x	v
Redundant Communication Module	None	x	v
Ekip Link Module	No	x	v
Ekip Com Actuator Required?	No	x	v
Synchrocheck Module	Yes	x	v
Signaling 2K Modules	None	x	v
4 AUX Auxiliary Contacts	400V	x	v
Supplementary Auxiliaries and Signaling	None	x	v
Remote Reset	None	x	v
Ready to Close Contact	None	x	v
Keylock in Open Position Required?	None	x	v
Push Button Padlock in open position or Push Button Cover Required?	None	x	v
Padlock in Racked In/Test/Racked Out Position Required?	No	x	v
Keylock in Racked In/Test/Racked Out Position Required?	None	x	v
Mechanical Operation Counter Required?	Yes	x	v

- Factory installed accessories can be added in the accessory section, located below the configuration section.
- Similar to the configuration section, options will appear, disappear, autofill and/or become mandatory based on prior selections.

# Configuring a product

The boxes on the right side of the configuration will display information about the item:

1. Completed part number and description
2. Itemization of base product and added accessories with part numbers and list pricing for each
3. Overall configured list price
4. Links to additional information/tools
5. Cradle specific details, if used
6. Validation of the configuration or corrective actions taken if invalid configuration is attempted

**Product Info**

**Load Product**

**1** **Part Number**  
Z2HFUKAN88A000000XA

**Description**  
E2.2H-A 2000 Ekip G Touch LSIG 3p WMP

**2** **Price Lines**  
(Z2HFUKAN200A000000XX) : E2.2H-A 2000 Ekip G Touch LSIG 3p WMP : [1SDA077614R1] : \$48,579.00  
(ZEBMOC) : MOC mech op cntr E2.2...E6.2 : [1SDA073781R1] : \$312.00  
(ZEAPWRS) : Ekip Supply 110-240VAC/DC : [1SDA074172R1] : \$699.00  
(ZEAIEC61850) : Ekip Com IEC61850 : [1SDA074156R1] : \$9,458.00  
(ZEASYNCHK) : Ekip Synchrocheck : [1SDA074183R1] : \$9,458.00

**3** **List Price: \$68,506.00**



**4**

- [Product Website Link](#)
- [Product Catalog Link](#)
- [Trip Unit Demo Simulator Link](#)

**Cradle Info**

**Load Product**

**5** **Part Number**  
Z2A20ACXX

**Description**  
E2.2-A W FP lu=2000 3p HR HR UL

**Price Lines**  
(Z2A20A0XX) : E2.2-A W FP lu=2000 3p HR HR UL : [1SDA079698R1] : \$4,347.00  
(ZEBAUPL) : AUP 5 cont 400V E2.2-E6.2-L (UL) : [1SDA080373R1] : \$911.00

**List Price: \$5,258.00**

**6**

✓ No issues found

# Configuring a product

Selector Quotes (2) Power and productivity for a better world™ **ABB**

Emax 2 USCON Code  → OK

Undo Redo Reset Save to Cart **2**

**Configuration**

Breaker/Switch: Circuit Breaker (automatic) x  
Bell Alarm: Std 250V Bell Alarm

**1.** Clicking the **Load Product** button will enter the product into the ERP system, making it available for immediate quoting or ordering. Note: breakers and cradles are loaded separately.

**2.** Clicking the **Save to Cart** icon will save the configuration and take you to the quote page. It will not load the part.

**Product Info**

**1** **Load Product**  
This product is available for quote or order now.

**Part Number**  
Z2HFUKAN88A000000XA

**Description**  
E2.2H-A 2000 Ekip G Touch LSIG 3p WMP

**Price Lines**  
(Z2HFUKAN200A000000XX) : E2.2H-A 2000 Ekip G Touch LSIG 3p WMP : [1SDA077614R1] : \$48,579.00  
(ZEBMOC) : MOC mech op cntr E2.2...E6.2 : [1SDA073781R1] : \$312.00  
(ZEAPWRS) : Ekip Supply 110-240VAC/DC : [1SDA074172R1] : \$699.00  
(ZEAIEC61850) : Ekip Com IEC61850 : [1SDA074156R1] : \$9,458.00  
(ZEASYNCHK) : Ekip Synchrocheck : [1SDA074183R1] : \$9,458.00  
**List Price: \$68,506.00**



- [Product Website Link](#)
- [Product Catalog Link](#)
- [Trip Unit Demo Simulator Link](#)

**Cradle Info**

**1** **Load Product**  
This product is available for quote or order now.

**Part Number**  
Z2A20ACXX

**Description**  
E2.2-A W FP Iu=2000 3p HR HR UL

**Price Lines**  
(Z2A20A0XX) : E2.2-A W FP Iu=2000 3p HR HR UL : [1SDA079698R1] : \$4,347.00  
(ZEBAUPL) : AUP 5 cont 400V E2.2-E6.2-L (UL) : [1SDA080373R1] : \$911.00  
**List Price: \$5,258.00**

# Loose accessories



The Accessories section allows selection of loose accessories and components for any product in the configurator tool.

Accessories

Enhance a breaker or switch with optional field installable accessories. Click here for a selection of available accessories by product family.

Selector

Quotes (0)

Power and productivity  
for a better world™ **ABB**

USCON Code

→ OK

## Accessories

Select the product that contains the loose accessories you want.

Save to Cart

- Tmax T1-T7
- Tmax T7M
- Tmax T8
- Formula
- Emax
- Emax 2
- Heavy Duty Safety Switch

Use the drop down to select the product line of the accessory that is needed.

# Loose accessories

Selector Quotes (0) Power and productivity for a better world™ **ABB**

USCON Code

**Accessories** 3

Select the product that contains the loose accessories you want. Tmax T1-T7

**Trip Unit Accessories**

<b>VOLTAGE MODULE</b>	PR330/VT7 (\$6,425.00)	<input checked="" type="checkbox"/>	Quantity: <input type="text" value="1"/>
MODBUS RTU COM MODULE T7-X1	PR330/D-M (\$9,532.00)	<input type="checkbox"/>	
PR330/R ACTUATOR MODULE T7-T7M	PR330/R-T7 (\$1,483.00)	<input type="checkbox"/>	
Bluetooth external module	BT030 (\$5,669.00)	<input type="checkbox"/>	

**Rating Plugs**

RATING PLUG IN=600A T7-T7M-X1	KT7X0400RP (\$265.00)	<input type="checkbox"/>	
RATING PLUG IN=600A T7-T7M-X1	KT7X0600RP (\$265.00)	<input type="checkbox"/>	

Clicking the box next to the accessory selects it (1) and allows selection of a desired quantity (2). Selections can be saved by clicking the **Save to Cart** icon(3) and it will redirect to the quote page.

Available accessories are listed in sub groupings down the page.

# Loose accessories

Find: Shunt		Previous	Next	Options	28 matches
POS KEY LOCK #20005 T7-T7M-X1	KT7XPL2 (\$428.00)	<input type="checkbox"/>			
POSITION LOCK ACCESS T7,T7M,X1	KT7XPLA (\$74.00)	<input type="checkbox"/>			

Shunt Trips				
SHUNT TRIP T1-T3 480-500VAC UL	KT3S1 (\$612.00)	<input type="checkbox"/>		
SHUNT TRIP T1-T3 220-240VAC/DC	KT3S2 (\$612.00)	<input type="checkbox"/>		
SHUNT TRIP T1-T3 380-440VAC UL	KT3S3 (\$612.00)	<input checked="" type="checkbox"/>	Quantity:	<input type="text" value="1"/>
SHUNT TRIP T1-T3 110-127VAC/DC	KT3S4 (\$612.00)	<input type="checkbox"/>		
SHUNT TRIP HD T1-T3 48-60VAC/DC	KT3S5 (\$704.00)	<input type="checkbox"/>		

Holding Ctrl+F brings up a search field that allows searching the listings more quickly.

# Quote page

Selector Quotes (4) Power and productivity for a better world™ **ABB**

USCON Code

Thanks for shopping with ABB. Below is your cart, where you can edit the items you have or remove any you no longer wish to purchase.

Item #	Material	Last Modified Date	Quantity	List Price	Extended List Price	Multiplier	Multiplier Amount	Net Price	Extended Amount	Channel Gross Markup%	End User Net	End User Ext Amt	Actions
1	KT3S3	2015/01/02 11:30:23	<input type="text" value="1"/>	\$612.00	\$612.00	1.000000	\$0.00	612.00	\$612.00	0	\$612.00	\$612.00	<input type="button" value="Modify"/> <input type="button" value="Remove"/>
2	PR330/VT7	2015/01/02 11:30:23	<input type="text" value="1"/>	\$6,425.00	\$6,425.00	1.000000	\$0.00	6425.00	\$6,425.00	0	\$6,425.00	\$6,425.00	<input type="button" value="Modify"/> <input type="button" value="Remove"/>
3	Z2HFUKAN88A000000XA	2015/01/02 01:26:22	<input type="text" value="1"/>	\$68,506.00	\$68,506.00	1.000000	\$0.00	68506.00	\$68,506.00	0	\$68,506.00	\$68,506.00	<input type="button" value="Modify"/> <input type="button" value="Remove"/>
4	Z2A20ACXX	2015/01/02 01:26:22	<input type="text" value="1"/>	\$5,258.00	\$5,258.00	1.000000	\$0.00	5258.00	\$5,258.00	0	\$5,258.00	\$5,258.00	<input type="button" value="Modify"/> <input type="button" value="Remove"/>
<b>Total</b>												\$80,801.00	

The quote page shows all the part numbers, list prices and total price for the products that have been saved during a session. It is not an official quote from ABB. Options from here are:

1. Delete one or all products from the saved section.
2. Return to the product configuration of an item in order to modify the selection.
3. Return to the main product group page in order to configure an additional item.
4. Modify the quantity, multiplier, net price or markup by item for estimation purposes.
5. Generate a PDF that can be saved and emailed to an ABB representative for official quoting/ordering.

# Finding the configurator

- The configurator can be reached by using either link below
  - <http://www.abb.us/lowvoltage-configurator>
  - <http://www.tnb.com/lowvoltage-configurator>
- It will also be available as a link on our public websites, customer portals and switchgear forum.

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