

ABB EGYPT, THURSDAY, 14 JANUARY, 2021

### **ABB Smart Tools and Software**

All in one pack!

Amr Younis, Technical Promotion Manager



Agenda

**Design Tools** 

e-Design Software

**Electrification library** 

**ABB Connect Partner Hub** 

	Selection Tools	<u>Simulators</u>	<u>References</u>		
	<u>e-Configure</u>	Trip Unit Simulators	Smart Societies portal		
<u>)</u>	SOC - Selected Optimized	Ekip Touch Trip unit & CB	ABB Ability™ Solutions		
	<u>Coordination</u>	Accessories Video Manuals	SharePoint & Channels		
	Softstarters Selection Tool	Ekip-Connect & EPiC	MyLearning Portal		
	Drive Size	PSTX Softstarter Simulator	References and handbooks		
	Drive, Softstarter and Motor	REF615 Simulator	Technical Magazines		
	<u>Selector</u> EV charger selector	The Relay Explorer - RXplore	ABB Channel Partners		
	PST-MV Relays		ABB Electrification page		
			ABB Library		
			Contact ABB		

#### And more can be found on ABB Web Page !

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About ABB

Section 1 – Design Tools

e-Design

e-Design

### e-Design suite

ABB <u>e-Design</u> is new engineering software suite launched as a tool for designing an electrical system, optimizing production times to the maximum, thanks to the ability to access a product portfolio to be used in synergy through intuitive and simple functionalities

#### It offers three main features

- Electrical Networks dimensioning
- Switchboard configuration and engineering
- Quotation

### ABB e-Design Videos on YouTube Channel

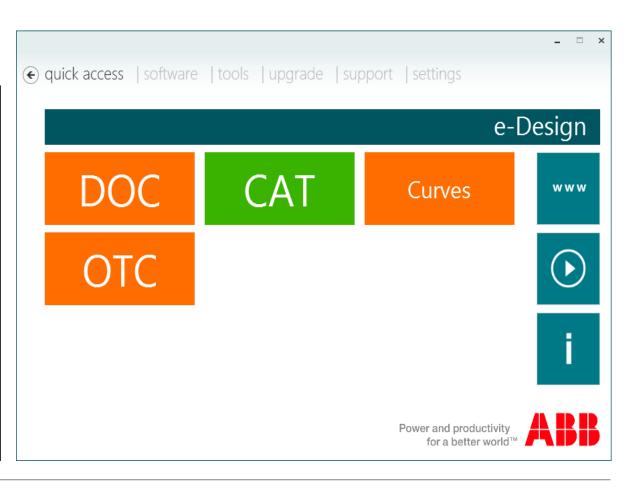




ABB e-Design Software

### DOC

Software for designing and calculating single-line diagrams for low and medium voltage electrical installations, for choosing protection and operating devices, and for checking and coordinating the protections.

#### CAT

Software for preparing technical/commercial estimates for ABB SACE products, and to facilitate the creation of quotations and offers.

#### Curves

Software for designing, calibrating and to printing the trip curves of the protection devices.

#### OTC

Thermal calculation software that allows you to check the thermal behaviour of switchgear and to size fans and air conditioners to be installed in the switchgear





Curves



ABB Connect Partner Hub

ABB Connect Partner Hub

#### **ABB Connect Partner Hub**

<u>ABB Connect Partner Hub</u> is a dynamic online community where partners can collaborate and access the competencies, products and professionals to design, sell, deliver and operate integrated solutions and value-added services

Drive interaction between ABB employees and partners

**Simplify** the search, configuration, purchase and installation of ABB products

Integrate ABB solutions into a seamless partner experience

Build a foundation for better collaboration

Empower ABB and partners to create value together

How to videos on YouTube ... ABB Connect Partner Hub - YouTube

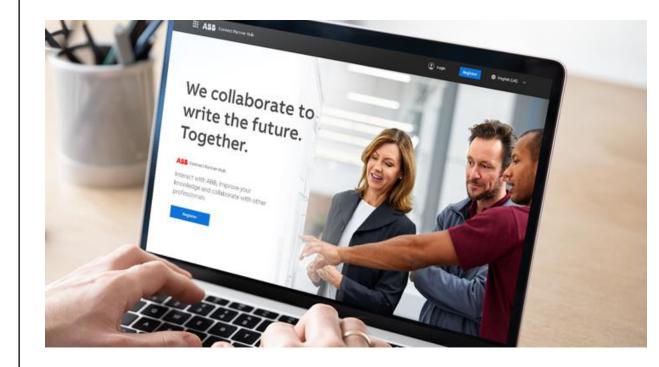




ABB Connect Partner Hub

#### DOCWeb

Software for designing and calculating single-line diagrams for low and medium voltage electrical installations, for choosing protection and operating devices, and for checking and coordinating the protections.

### e-Configure

Software for preparing technical/commercial estimates for ABB SACE products, and to facilitate the creation of quotations and offers.

#### **Trip Curves**

Software for designing, calibrating and to printing the trip curves of the protection devices.

#### OTC

Thermal calculation software that allows you to check the thermal behaviour of switchgear and to size fans and air conditioners to be installed in the switchgear

# **Q**E otc

🚺 Single Line Diagram

Custom draw & compute your Single Line Diagrams.

Create a new SLD



Easily select & customise your devices with accessories.

Add Devices & Solutions

#### Trip Curves

Plot and verify your devices trip curves at a glance.

Create new Trip Curves study

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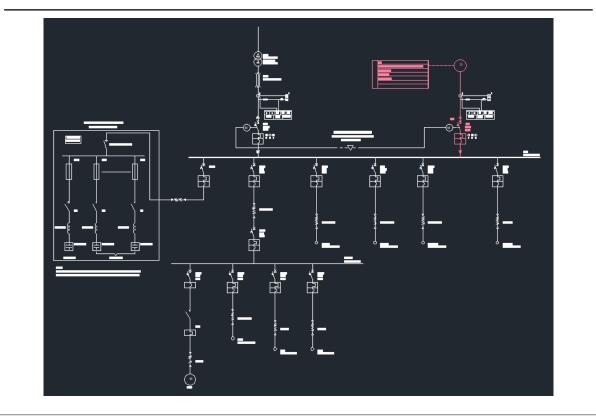


Single Line Diagram Implementation

Electrification library

<u>Electrification Library</u> for Single Line Diagram Implementation contains

- Smart MV Switchgear SLD
- Smart LV Switchgear SLD
- Standard LV Switchgear with Power Factor Correction SLD
- Motor Control Centers (MCC) SLD
- ABB i-bus KNX Specification toolbox
- Central battery system CBS riser diagram
- Complete network **DOC** example with SLD, Enclosures, OTC & curves modules
- **BIM** database
- Products/Systems Specifications in CSI Format (Coming Soon!)



Section 2 – Selection Tools

e-Configure

### e-Configure Software

### e-configure

<u>e-Configure</u> is a new product and application configuration tool that makes configuring and ordering solutions simpler and quicker for ease of business.

e-Configure allows you to configure and build a bespoke product and create a unique personalized product code for when you need to re-order.

ABB is leading the digital business transformation with solutions like e-Configure.

#### e-configure platform

that make configuring and ordering solutions simpler and quicker.





SOC - Selected Optimized Coordination

SOC - Selected Optimized Coordination

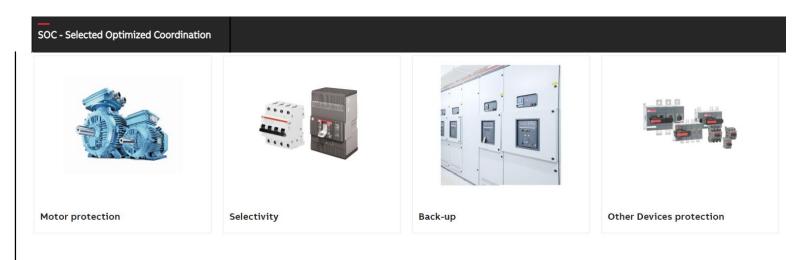
### SOC

Selected Optimized Coordination is a web tool for the selection of ABB products based on tests carried out in the laboratories according to IEC/ UL standards

It can be used in the following applications:

- Motor starting and protection
- Selectivity between protection devices
- Back-up protection
- Other devices protection

#### Quick Start guide for SOC





Softstarters Selection Tool (Prosoft)

Softstarters Selection Tool (Prosoft)

### ProSoft

The <u>Softstarters Selection Tool (Prosoft)</u> is a tool that will help you choose the right soft starter according to your specific motor and load characteristics.

The optimum Softstarter can selected through three steps

- Plant, Motor and Load data
- Parameters setting
- Results and generating final report





BB prosoft File Help							
Input Calculation Data Results							
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Max. Ambient temperature [C]	40	Main Voltage [V]	400 🔻				
Max. Altitude [m]	1000	Frequency [Hz]	50 🔻				
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Load Torque at Rated Speed [%]	100						
Moment of Inertia							
Load Shaft [kgm²]	0.990						
Motor Shaft [kgm²]	0.990						
Help     << Previous     Next >>							



DriveSize

DriveSize

### DriveSize

<u>DriveSize</u> helps to select an optimal motor, drive and transformer. DriveSize can also be used to compute network harmonics and to create dimensioning documents.

It contains current versions of our motor and drive catalog.

Two versions are available DriveSize Web for online users

DriveSize software that can be installed on a PC.



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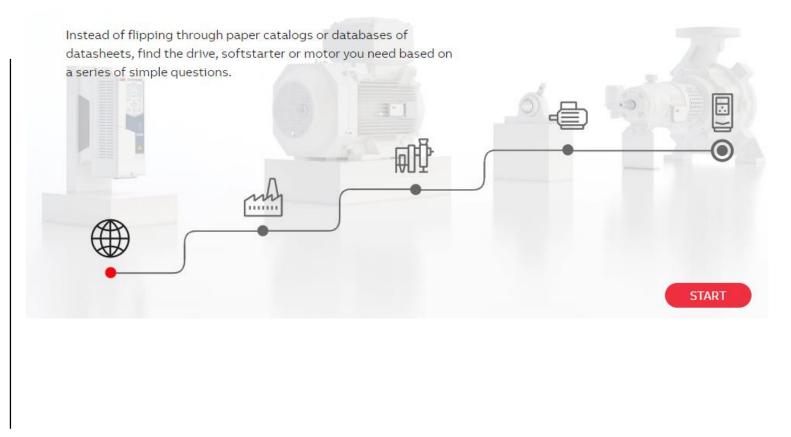
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Drive, Softstarter and Motor Selector

Drive, Softstarter and Motor Selector

#### Drive, Softstarter and Motor Selector

Drive, Softstarter and Motor Selector gives you a simple way to find the drive, Softstarter or motor you need based on a series of simple questions





EV charger selector

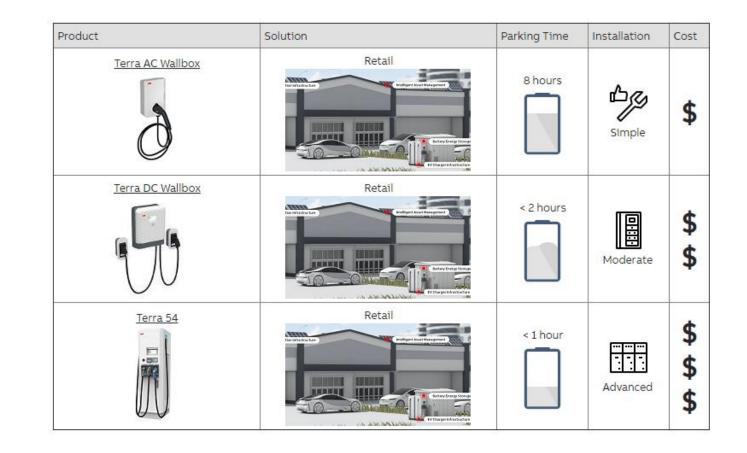
EV charger selector

### EV charger selector

<u>EV Charger selector</u> is a quick tool for selecting the optimum EV Charger that best fits your application based on

- Location type
- Parking Time

Browse more on <u>ABB Electric vehicle charging</u> infrastructure Solutions





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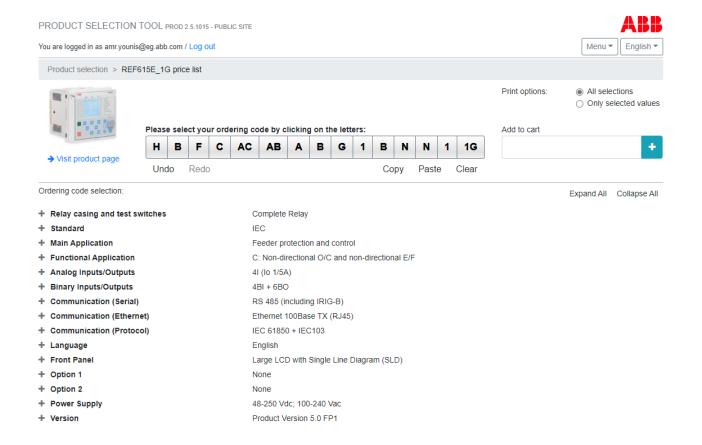
Product Selection Tool- PST

Product Selection Tool- PST

ABB's interactive <u>Product Selection Tool (PST)</u> covers the whole distribution automation (DA) offering for both IEC and ANSI markets.

The tool allows convenient access to the latest product information, as only the latest product version is displayed. This makes PST both quick and easy to use.

The Relion<sup>®</sup> product family offers the widest range of products for the protection, control, measurement and supervision of power systems for IEC and ANSI applications.





Section 3 – Simulators

Trip Unit demo Simulators

Trip Unit demo Simulators\*

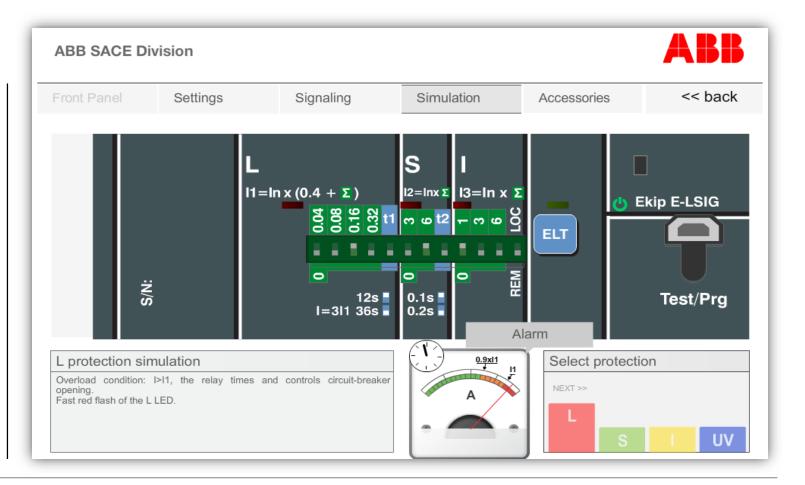
#### **Demo simulators**

Trip Unit Simulators can be found on <u>circuit</u> <u>breakers page</u> (under Tools and support>Multimedia applications>Trip Unit demo simulators)

The Simulators are available for

- <u>Emax2</u>

- <u>New Emax</u>
- <u>Tmax T</u>
- <u>Tmax XT</u>
- ATS021& ATS022





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Ekip Touch Trip unit & CB Accessories Video Manuals

Emax 2 trip unit video tutorials

#### Emax2 Touch screen trip unit setting

Discover how to get the most out of Emax 2 circuit breaker.

We are pleased to present a complete series of video tutorials showing details of the main Ekip trip units' functionalities.

You can watch the videos on YouTube or download them to showcase to our customers.

Emax 2 trip unit video tutorials

<u>ABB ACB Emax 2</u> embeds more and more functionalities to become the all-in-one solution able to manage the low-voltage distribution systems.





Accessories Video Manuals

#### Installation activities

Tutorial videos showing the main installation activities on ABB circuit breakers and their accessories can be found on <u>circuit</u> <u>breakers page</u> (under Tools and support>Multimedia applications>Video manuals)

You can either:

- Watch the video on YouTube
- Download the video on zip file
- Read the instruction manual as a pdf file.
- Emax2 E1.2
- Emax2 E2.2...E6.2
- <u>Tmax T7/T7M</u>
- <u>Tmax XT</u>





#### Breakers accessory installation video

On instruction manuals, QR codes have been implemented that by scanning these code, you will be automatically directed to the corresponding <u>installation video</u>.



Ekip Connect

**Ekip Connect** 

### Communicate with the breaker

Ekip Connect is simple and intuitive to use and can be used with PCs, tablets and smart phones.

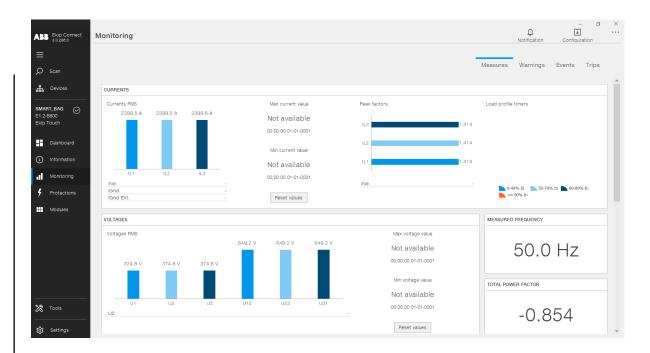
It is software for scanning and testing the communication network and for interacting with Ekip Touch or Ekip Hi-Touch trip units

It is integrated with DOC electrical design software

It allows interaction and data exchange with one or more trip units, which:

- Allows setting of protection functions and parameters
- Permits rapid access to diagnostics and records of events, alarms and tripping





Sample From a device report  $\rightarrow$ 



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EPiC

### Communicate with the breaker

EPiC is the new mobile application that allows you to configure and check the status of the ABB low voltage Circuit Breakers.

EPiC means Electrification Products intuitive Configurator and it follows the legacy of Ekip Connect, with more functions, more safety and a more intuitive use.

All you need is the free EPiC app and a Bluetooth LE equipped device (The new Tmax XT series with embedded Bluetooth for example)

The EPiC application is available free-of-charge from <u>Google Play</u> and <u>App Store</u>





Ekip T&P Interface

#### **Testing & Programming interface**

This software is embedded in the Ekip Connect software and is accessible with the Ekip T&P device. It allows:

- Verification of correct functioning of the Ekip trip units during commissioning and system maintenance
- Simulation of currents flowing through the trip unit (test of protection functions)
- Simulation of currents and voltages with harmonic distortion

The software creates and stores all reports, keeping a record of the tests carried out and essential information such as the operator name, date, serial number of the circuit-breaker, type of test and the result.

Sample From a test report  $\rightarrow$ 

Adobe Acrobat Document



#### **Ekip T&P - Programming and Test unit**

Ordering Code : 1SDA066989R1



PSTX Softstarters Simulator

**PSTX Softstarters Simulator** 

#### **PSTX Simulator**

PSTX Softstarters HMI, Inputs, Outputs, Faults, Protections and Warnings can be simulated using the <u>PSTX Softstarter Simulation tool</u>

\* You can always download the latest version of the simulator from the <u>Softstarters web page</u> (Documents>Downloads>Software)



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**REF615 Simulator** 

## **REF615 Simulator**

<u>REF615 simulator</u> has been made for a purpose of demonstrating and training the use of the HMI (Human Machine Interface) functionality of REF615 protection relay.

<u>REF615 Relay</u> is a REF615 is a dedicated feeder protection and control relay for protection, control, measurement and supervision of overhead lines and cable feeders in utility and industrial power distribution systems, including radial, looped and meshed distribution networks, with or without distributed power generation.





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The relay explorer RXplore

The relay explorer RXplore

The relay explorer RXplore mobile application is designed for operators and site engineers to improve the ease-of-use and increase productivity, at site, during maintenance of protection relays.

The app enables a secure connection to the ABB cloud and to selected ABB protection and control relays, and ABB monitoring and diagnostic devices.

RXplore supports downloading data from ABB's cloud service as well as visualization, parameterization and sharing fault information at site.

The RXplore application is available free-of-charge from <u>Google</u> <u>Play</u> and <u>App Store</u>





Section 4 – References

**ABB Smart Societies Portal** 

**ABB Smart Societies Portal** 

The interactive landscape shows some of the safe, smart and sustainable solutions that can contribute to the design of a comprehensive <u>'smart</u> <u>city'</u>





ABB Ability<sup>™</sup>

ABB Ability<sup>™</sup> Solutions

#### **ABB Ability™ Solutions**

ABB Ability<sup>™</sup> solutions deliver a safer, smarter, more sustainable electrical infrastructure by providing data-driven insights that enable you to reduce costs, increase comfort, and drive efficiency.

ABB Ability<sup>™</sup> Overview ABB Ability<sup>™</sup> Energy and Asset Manager Customer reference selector





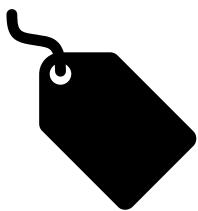
SharePoint & Communication Channels

SharePoint



# **ABB Talks**

## LV Products Price List





**Communication Channels** 







ABB MyLearning

ABB MyLearning

Training programs for engineers, programmers, maintenance and operations personnel provide up-to-date technical expertise for existing and new products, processes, and technology advances.

- Computer, Android, iOS YouTube Guide
- ABB Learning page on YouTube
- Guide for new users
- Learner Manual
- User Tips and Tricks
- FAQ

#### MyLearning

CATALOG





4

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References and handbooks

References and handbooks

## **Technical documentation**

You can Download the technical references from <u>circuit breakers</u> page, (Under technical documentation tab), other references can be found in the download Center

Electrical Installation handbook

Technical application papers

White papers

Softstarter Handbook

**RCD Technical Guide** 

LV Motor Guide

**Drives Technical Guides** 

... and More on <u>ABB Library</u>!

## **Tools & Support**

Technical documentation	Software & applications	Multimedia applications
		-

#### Electrical Installation handbook

Quick reference technical guide to explore plant protection, control and electrical devices.

#### Technical application papers

Thorough analysis of technical issues, Paper Series to explore ABB solutions suitable for consultants, sales engineer and big installers.



**Technical Magazines** 

**Technical Magazines** 

## **Technical Magazines & Journals**

<u>ABB review</u> is the corporate technical journal. For over a century, ABB has proudly published a corporate technical journal highlighting the company's innovations and technological advancements



ABB channel partners page

ABB channel partners page

## **Panel Builders/Distributors**

ABB is committed to bring you products and services in the fastest and most efficient manner.

Our extensive network of channel partners are qualified to offer you a whole range of ABB's electrification products to ensure smarter, safer and more reliable flow of electricity.

Partners are listed in an alphabetical order in the below link

http://new.abb.com/africa/channel-partners

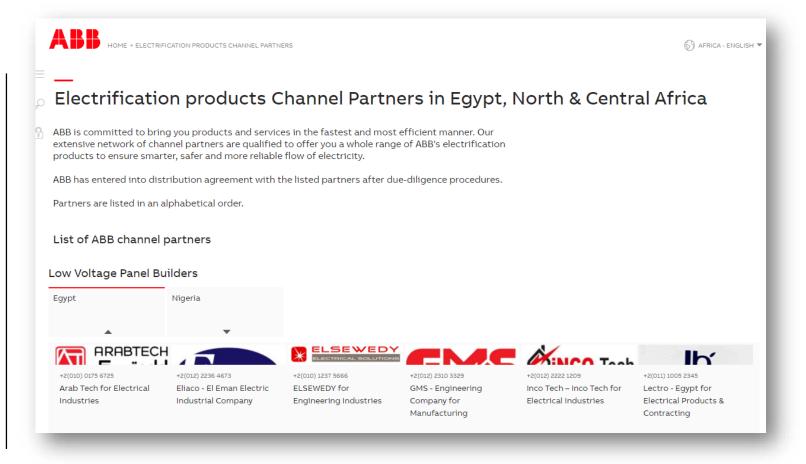




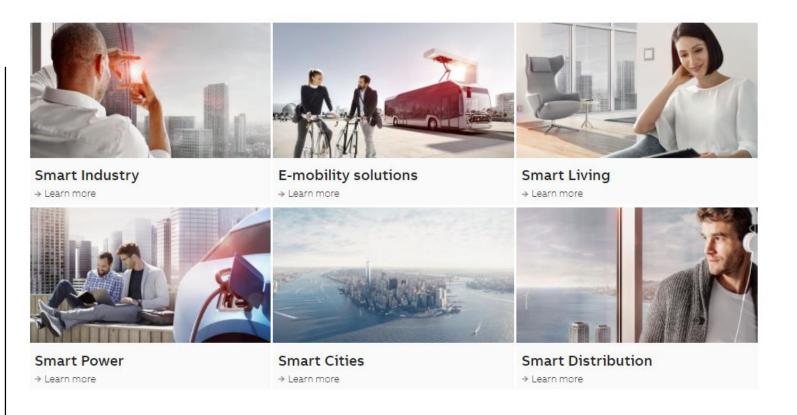
ABB Low voltage products page

ABB Electrification Low voltage products page

## **ABB Electrification**

#### Powering the future

With ever increasing urbanization and the world forging ahead to create a low-carbon future, ABB is supporting with digitally connected, ABB Ability<sup>™</sup> enabled solutions and services.





Example for ACB Emax2 Selection

From ABB Electrification page, navigate to Links and Resources and select the requested product or service

ABB Low voltage products page can be found on the below link <a href="http://new.abb.com/low-voltage">http://new.abb.com/low-voltage</a>

You can find different useful links including :

- Highlights
- Our <u>offering</u> (product categories by application or A-Z order)
- Industries, solutions and support

## Low voltage products and systems

## Links & Resources

News	Enabling	g products & services	Reso	ources		
Low voltage p systems	roducts and	Medium Voltage products, solutions and services	Electric v infrastru	ehicle charging cture	UPS and power conditioning	Smart Buildings
ABB's Virtu Show	al Innovatior	ABB helps Te Papa safe power supply		Beyond conn	ected	ing packaging for od company

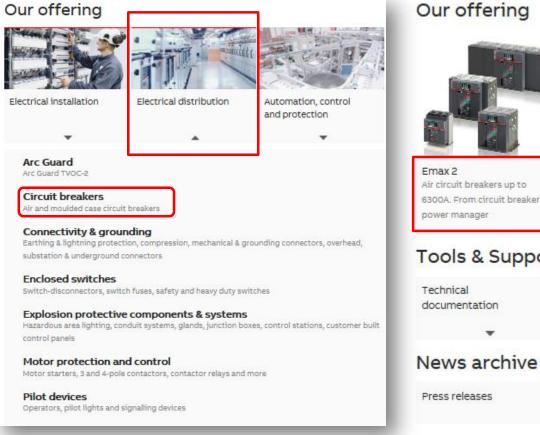
You can click on the image for guidance

ABB Low Voltage Products page

#### Example

If you need to go to Emax2 Air Circuit Breaker Page

- Go to Low Voltage products web page
- Select the Electrical Distribution
- Select Circuit breakers
- Select Emax2



#### Our offering





Air circuit breakers up to 6300A. From circuit breaker to

Tmax T Moulded case circuit breakers from 320A up to 3200A.

#### **Tools & Support**





ABB Library

ABB Library

#### Download a document

After search and finding the required product, you can select any type of document to download from the Products and Document browser part

On the left you will find different document types as filters

For advanced search or documents in another language, click on the corresponding link and you will be directed to ABB Download Center

#### You now see 3 files within All files (1008) $\sim$ $\rightarrow$ Advanced search $\rightarrow$ Documents in all languages Show all (1008) Cat Spare Parts 2020 Summary: No summary available PDF English - 2020-10-01 - 13,91 MB Advertisement (8) Article (2) SACE Emax 2. New low voltage air circuit-breakers Summary: SACE, Emax 2, Power Manager, All-in-one innovation PDF English - 2020-05-27 - 77,87 MB Brochure (11) Catalogue (3) SACE Tmax T/ML, Emax 2/ML. Shockproof circuit breakers Summary: No summary available PDF English - 2017-10-02 - 8,51 MB Certificate (8) Circuit diagram (5) Data sheet (5)

#### Downloads for Emax 2





**ABB** Library

You can type the needed description and then click on search

You can also select the advanced search by choosing filters for:

- Category
- Document kind "type"
- Language

<b>ABB</b> Library	Q Search for			EN LOG IN
➡ Category ■ Document kind	All Categories > ABB Products > Low Voltage Products and Systems > Circuit Breakers > Air Circuit Breakers > Emax 2 Catalogue 😵 English ⊗			
XA Document language	Documents found: 6 PUBLIC Cat Spare Parts 2020			PDF
- Sort by	ID: 1SDC001007D0205, REV: A English PUBLIC	Catalogue	2020-10-01	PDF <u>▼</u> 13,91 MB
	SACE Emax 2 UL Catalog ID: 1SXU200040C0201, REV: D English SACE Emax 2. New low voltage power circuit breaker according to ANSI C37 / UL 1066 standards (US version)	Catalogue	2020-06-30	PDF 👱 44,82 MB
	PUBLIC SACE Emax 2. New low voltage air circuit-breakers ID: 1SDC200023D0209, REV: E English SACE, Emax 2, Power Manager, All-in-one innovation	Catalogue	2020-05-27	РDF 👤 77,87 МВ
	PUBLIC SACE Tmax T/ML, Emax 2/ML. Shockproof circuit breakers ID: 1SDC007907D0201, REV:- English	Catalogue	2017-10-02	PDF 📥 8,51 MB



Contact ABB

Contact ABB

#### **Contact information**

You can also find the related contact information for any inquiry (product/system)

ABB Egypt Hotline : **19290** 

ABB Egypt Contact Center mail: contact.center@eg.abb.com

 4

#### Contact ABB

**Contact information** 

First Name Last Name\*

E-mail\*

Company / Organization\*

Country or region\*

Egypt

+ Phone

Eg. 44 7911123456 (Start with International dialing code)

Message

quíry concerns\*

Circuit Breakers

Message\*



About ABB

About ABB

## About

ABB is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. By connecting software to its electrification, robotics, automation and motion portfolio, ABB pushes the boundaries of technology to drive performance to new levels. With a history of excellence stretching back more than 130 years, ABB's success is driven by about 110,000 talented employees in over 100 countries.

<u>Technology & Innovation</u> <u>History of ABB</u> <u>Heritage Brands</u>





