



CONNECTING ENERGY  
SINCE 1952

# Welcome in Cabur

Altare 03 Feb. 2020



# WHO WE ARE

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## Cabur is a historic Italian company

With over **65 years of experience**, we design, develop and manufacture a wide range of products for the electrical engineering and electronics industry renowned for their reliability even in extreme conditions of use



## OUR MISSION

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*Provide our customers with reliable products and solutions in the field of energy distribution, automation and process control.*

«Speed, Security, Reliability»



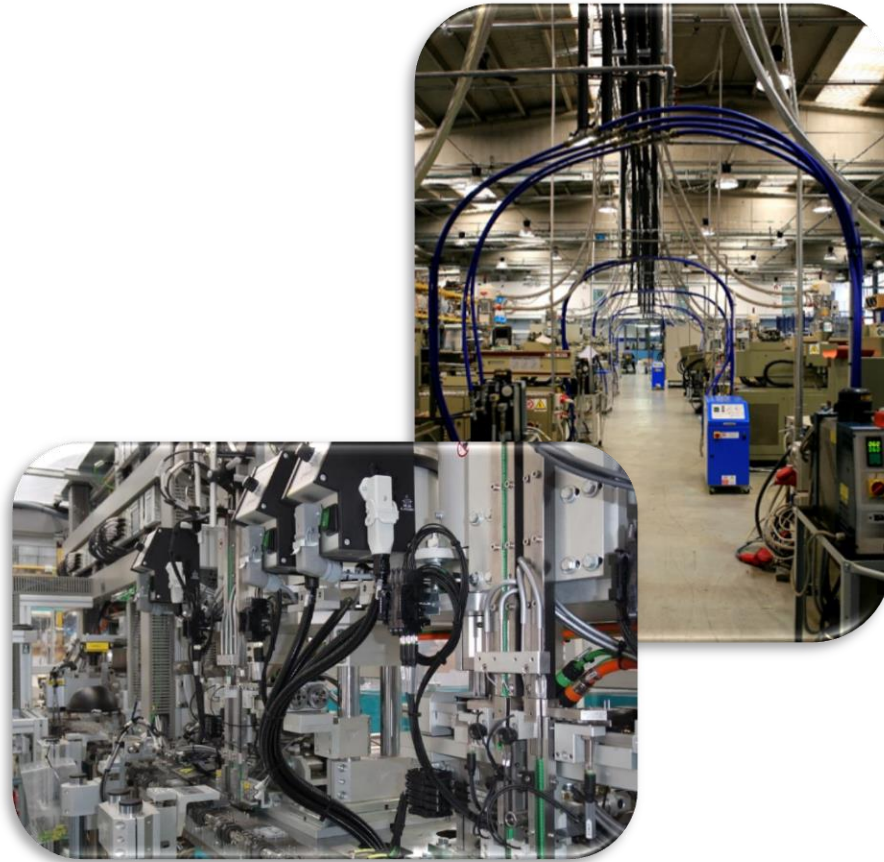
## OVER 65 YEARS OF HISTORY

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- **1952** Cabur was founded
- **1963** Cabur expands, moving to Albissola Marina (SV) and becomes one of the main terminal suppliers of industries in the energy distribution, automation, chemistry and telecommunications sector
- **1993** Cabur launches a new line of electronic products for automation
- **2006** Cabur moves to the new Altare (SV) plant, doubling the operating areas and strengthening its staff, in order to optimize production and logistics management
- **2008** Cabur launches a new line of products dedicated to the photovoltaic sector
- **2009** Cabur launches a new line of products dedicated to marking
- **2012** Cabur opens a branch in Romania



# WHY CHOOSE CABUR



## ➤ Quality of the products

- Careful selection of raw materials
- Modern machinery and automated techniques
- Constant search for the most efficient solution

## ➤ Close to its customers

- It produces and operates in Europe
- He has a deep knowledge of the specific needs of the market
- Develops, produces and supplies «market oriented» products





# WHY CHOOSE CABUR

## ➤ Competence

- Since 1991, Cabur has been a member of the IEC for the review and issuance of product standards
- Over 65 years of technological experience and reputation as a reliable partner



## ➤ High level and quality of service

- Logistics management “tailor made” to partners needs
- Accessory services (i.e. custom assembling)
- Technical and commercial assistance



## WHY CHOOSE CABUR

- Our products enjoy the most prestigious national and international awards in terms of quality and safety
  - **1985**: adoption of a Quality System
  - **1995**: ISO 9001: 1994 Quality System Certification
  - **2001**: ISO 14001 Environmental Quality Certification
  - **2002**: ATEX notification (gas and dust)
  - **2003**: ISO 9001: 2000 Quality System Certification
  - **2007**: IEC Ex Notification
  - **2014**: Euro-Asian Community Certification
  - **2018**: System Certifications ISO 9001: 2015 (Quality) and ISO 14001: 2015 (Environment)



# CABUR TODAY

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## Cabur is an Industry 4.0

We connected all the production machines to the network and implemented the management software system

- Reduction of production planning errors
- Reduction of “dead times” between two different productions
- Total traceability
- Constant monitoring of performances
- Increased efficiency





# CABUR TODAY

## ➤ Shipment monitoring

- Automatic dispatch of shipment notice
- Automatic delivery of the DDT to the buyer
- Shipping monitor

**Rintraccia spedizione** | Ritorno | Aiuto |

Ricerca con BRTcode (spedizioni degli ultimi 12 mesi) I campi obbligatori sono segnalati dal colore rosso

BRTcode  (19 cifre)

**Ricerca**

Ricerca con numero spedizione (spedizioni degli ultimi 12 mesi)

Numero spedizione  (12 cifre)

spedizioni degli ultimi 2 mesi)

**In consegna** | 16.05.2017 indicativamente dalle 10.30 alle 15.30

E' possibile programmare la consegna premendo **OPZIONI DI CONSEGNA**

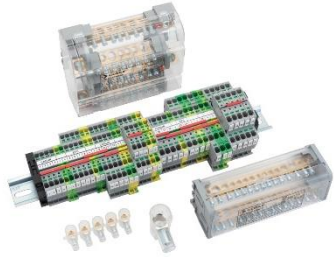
**OPZIONI DI CONSEGNA**

Eventi

Data	Ora	Filiale	Evento
16.05.2017		ROVATO (141)	IN CONSEGNA
16.05.2017	07.58	ROVATO (141)	ARRIVATA IN FILIALE
15.05.2017	21.00	GENOVA CORNIGLIANO (002)	PARTITA
15.05.2017	18.00	GENOVA CORNIGLIANO (002)	RITIRATA



# A COMPLETE OFFER



**INDUSTRIAL CONNECTIVITY SOLUTIONS**



**INDUSTRIAL MARKING SOLUTIONS**

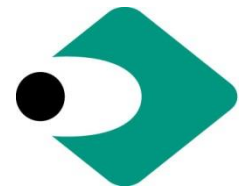


**AUTOMATION AND CONTROL SOLUTIONS**



**SOLUTIONS FOR RENEWABLE ENERGY**





**cabur**<sup>®</sup>

CONNECTING ENERGY  
SINCE 1952

# INDUSTRIAL CONNECTIVITY SOLUTION

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SITO WEB: [www.cabur.it](http://www.cabur.it)



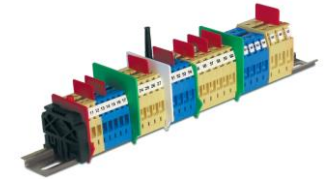
<https://www.facebook.com/cabursrl/>



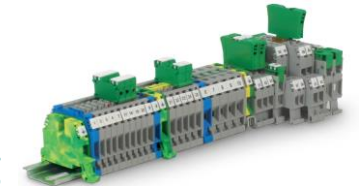
<https://www.linkedin.com/company/cabur/>

# Cabur terminal blocks: general advantages

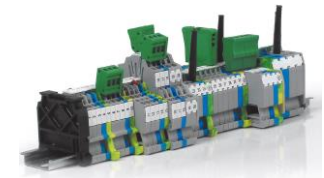
- A complete range suited for automation, power distribution and installation applications
- Designed and certified for the main applications (industrial, ATEX, naval, petrochemical)
- Wide range of accessories to support maximum installation flexibility
- High quality of the raw materials
- Application temperature  $-40^{\circ}$  /  $+130^{\circ}$  C (Atex +  $110^{\circ}$  C)
- Made with UL94V-0 material (polyamide), the highest standard in terms of self-extinguishing
- RoHS compliance
- Certified by the main international bodies
- Constant attention to the quality / price ratio in all phases of manufacturing



CDB Series



CBC Series



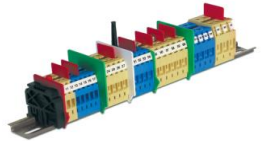
HMM Series



EFC Series



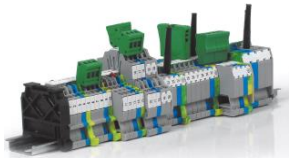
# Terminal blocks: application



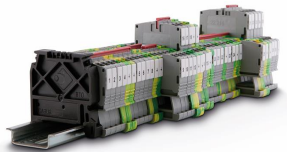
CDB Series



CBC Series



HMM Series



EFC Series

Line	Typical sector of use
CBD	Hard industrial environments, Energy Distribution, Naval (i.e. Ansaldo, Hitachi, Terna, Fincantieri and systems subject frequent maintenance)
CBC	Installation, Energy Distribution, Automation Applications in reduced spaces (multi-levels terminals, double parallel bridge, repetitive wiring)
HMM	Automation, Energy Distribution, Railway, HVAC - Reduction of wiring times; signal cables; small spaces
EFC	Automation, Energy Distribution (ENEL), Railway - Reduction of wiring times; cable removal facility; signal and distribution cables; small spaces





# Terminal blocks: certification

	<p>Certification mark on relevant IEC / EN product standards. Together with the tests carried out by IMQ it is used to certify the CE marking</p>
	<p>Present on most products, recognized for the US and Canadian markets</p>
	<p>ATEX Ex and IEC Ex - for potentially dangerous atmospheres (not applicable to detachable / scintillating terminals)</p>
	<p>Italian Naval Register, recognized also from other Registers like Lloyd and DNV Certificate available on most products including CDB, CBC, HMM, EFC</p>
	<p>Certificate of conformity for the Eurasian Customs Union</p>
	<p>Certificate of conformity for the Eurasian Customs Union for products intended for use in hazardous areas</p>



# Terminal blocks – CBD series

## SCREW CLAMP – CBD SERIES

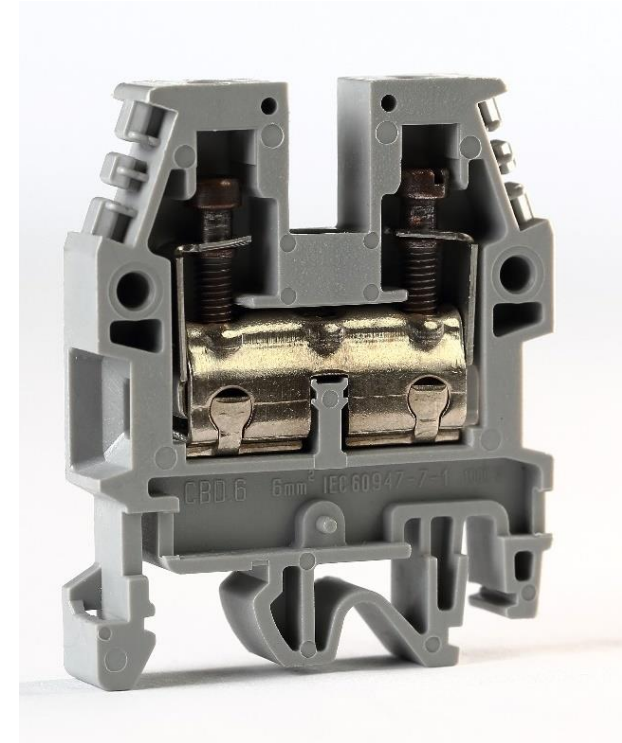
- Rated cross-section: from 2,5 to 70mm<sup>2</sup>
- connecting capacity: from 0,5 to 95 mm<sup>2</sup>
- max current rating (IEC 60947-7-1): 192 A
- suited to be mounted on both TH/35 and G32 rails
- screw-type jumpering system
- can house a screening lug
- KEMA, UL, ATEX, LR, R.I.NA approval



# Terminal blocks – CBD series

## SCREW CLAMP – CBD SERIES

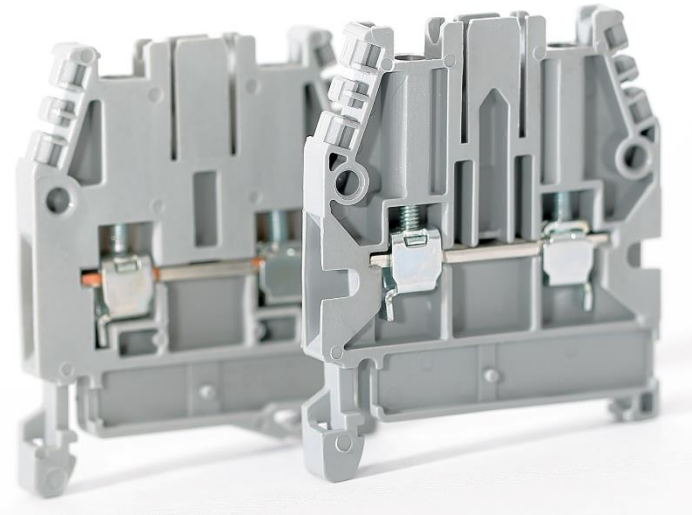
- high current carrying performance
- conductor makes contact on 4 surfaces of metal body
- very good electrical characteristics (able to house the next one up conductor, with its related current)
- one series for all uses (ATEX, Installation, naval, SO2 plants)
- ALL products in UL94V-0 polyamide
- RoHS compliance on both insulating and metal components
- very good reference in every installation field
- very good quality / price ratio



# Terminal blocks – CBC series

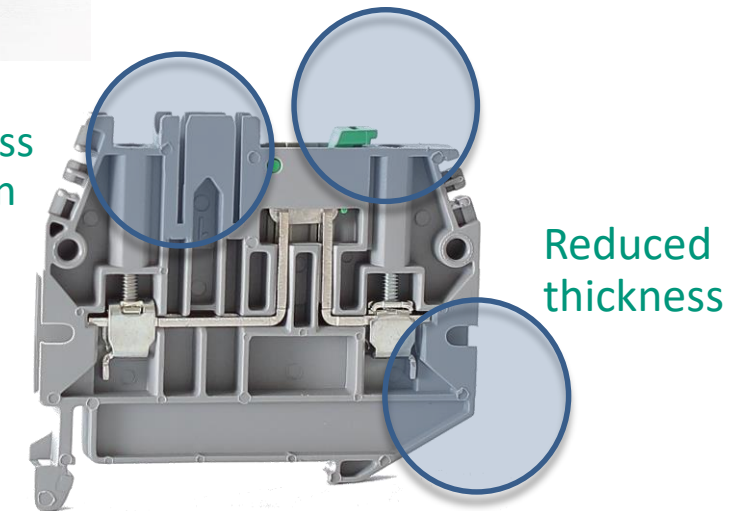
## SCREW CLAMP – CBC SERIES

- rated cross-section: from 2,5 to 35 mm<sup>2</sup>
- rated voltage: 1000 V
- connecting capacity: from 0,2 to 50 mm<sup>2</sup>
- max current rating (IEC 60947-7-1): 160 A
- suited to be mounted on TH/35 rails
- plug-in type jumpering system (PTC - PTP) patent covered
- screw + yoke clamping system optimises the use
- higher resistance to excessive torque values
- KEMA, UL, R.I.N.A. Approval



Double Cross  
connection  
slots

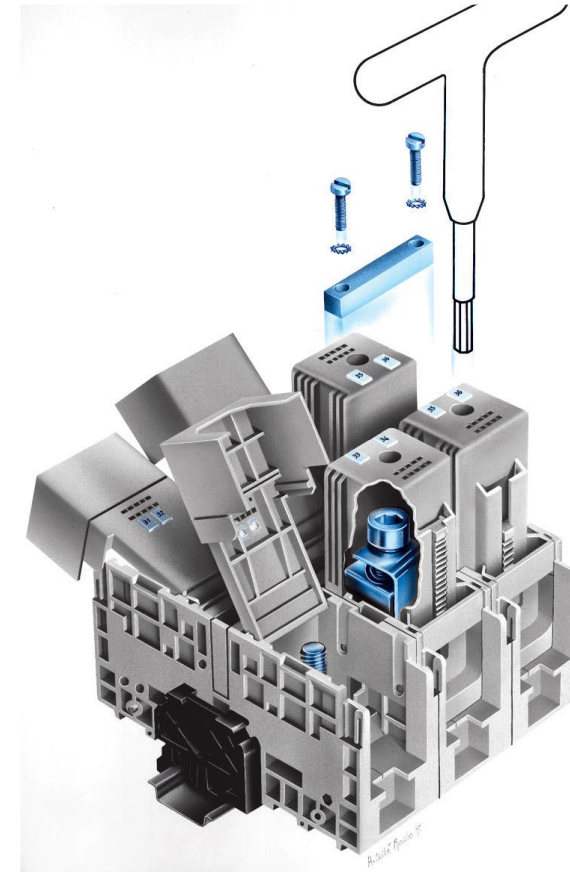
«impossible to  
lose» and guided  
lever



# Terminal blocks – GPM series

## SCREW CLAMP – GPM SERIES

- rated cross-section: 95, 150, 240 mm<sup>2</sup>
- rated voltage: 1000 V
- connecting capacity: from 35 to 300 mm<sup>2</sup>
- available for prepared (cable lugs) or unprepared conductors
- max current rating (IEC 60947-7-1): 600 A
- suited to be mounted on both G32 and TH/35 rails
- screw type jumpering system
- available also in direct panel-mount version
- KEMA, R.I.NA Approval, ATEX

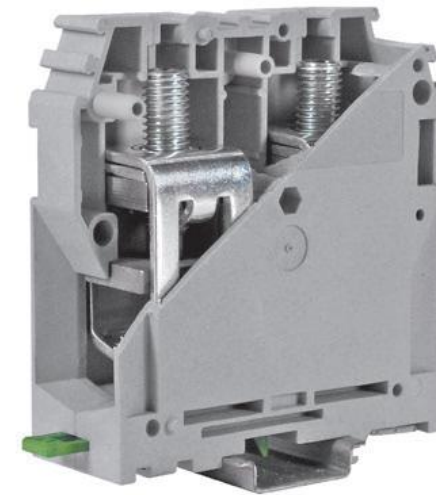




# Terminal blocks – GPA series

## SCREW CLAMP – GPA SERIES

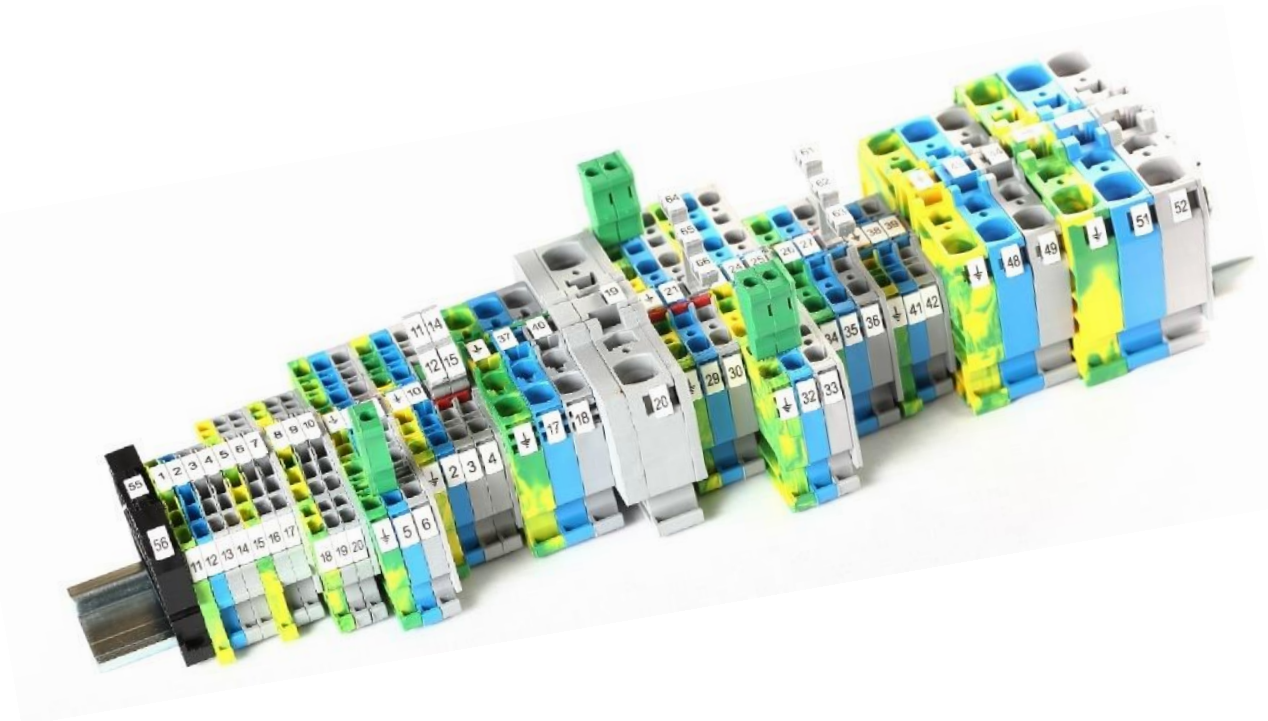
- rated cross-section: 95, 150, 240 mm<sup>2</sup>
- rated voltage: 1000 V
- connecting capacity: from 35 to 300 mm<sup>2</sup>
- max current rating (IEC 60947-7-1): 415 A
- suited to be mounted on both G32 and TH/35 rails
- available also in direct panel-mount version
- KEMA, R.I.NA, UL Approval



# Terminal blocks – HMM series

## SCREW CLAMP – HMM SERIES

- Maintenance-free spring clamp
- RAL 7042 grey colour
- Version 1+1 ; 1+2 ; 2+2
- rated cross-section: from 1,5 to 16 mm<sup>2</sup>
- connecting capacity: 0,2 to 25 mm<sup>2</sup>
- max current rating (IEC 60947-7-1): 76 A
- suited to be mounted on TH/35 rails
- plug-in type jumpering system - patent covered
- KEMA, R.I.NA, UL Approvals, ATEX,
- IEC 61373 (railway application)



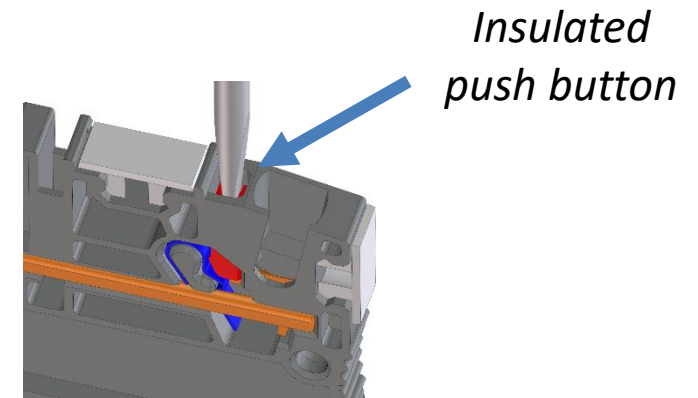
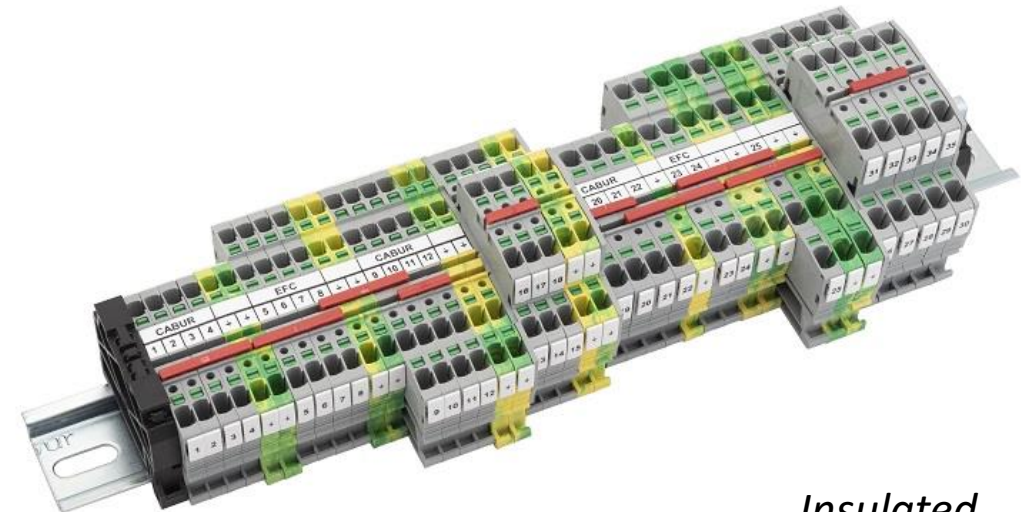
# Terminal blocks: push-in technology – EFC series

NEW

## PUSH-IN TECHNOLOGY – EFC SERIES

### Advantages

- Maintenance-free spring clamp
- Calibrated contact force during design
- Increased cabling speed compared to a standard spring clamp terminal block
- Size reduced
- Possibility to cabling without screwdriver
- Insulated push button to increase the safety
- IEC 61373 (railway application)

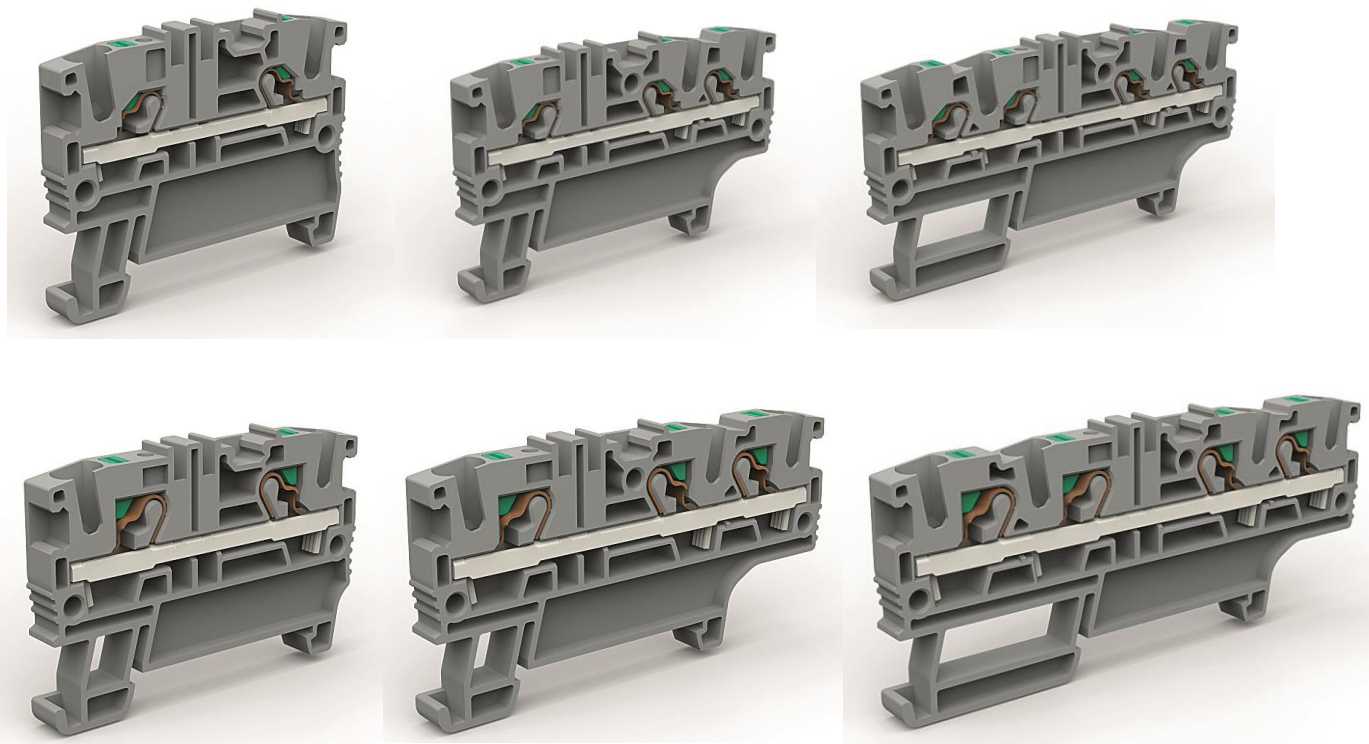


# Terminal blocks: push-in technology – EFC series

NEW

## FEED – THROUGH

- Rated cross section 2,5 e 4 mm<sup>2</sup>
- Version 1+1 ; 1+2 ; 2+2
- Cross connection
- Compact dimension
- Insulated push button



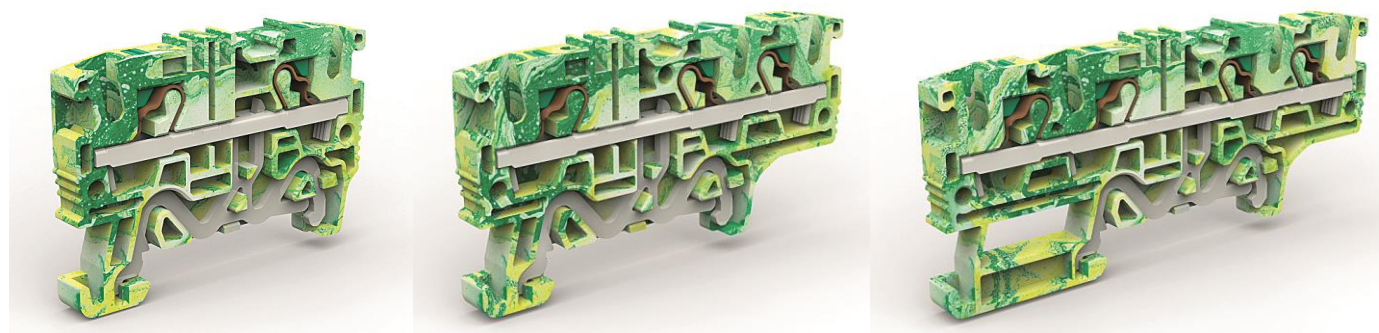
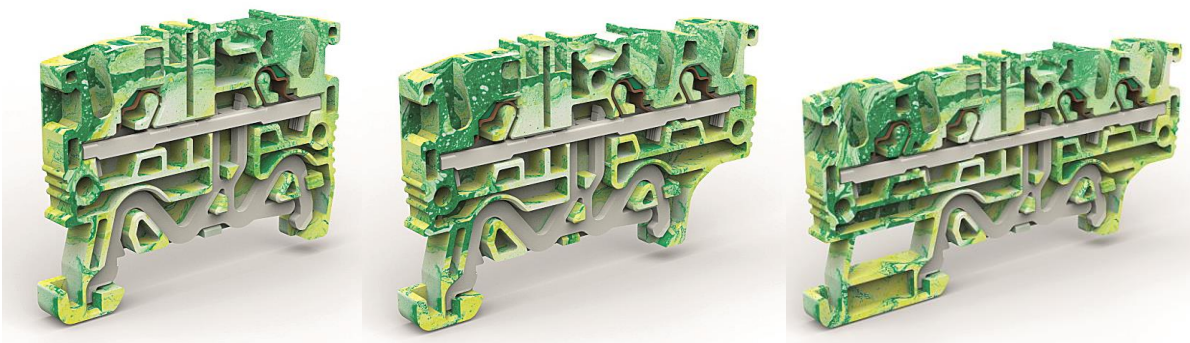


# Terminal blocks: push-in technology – EFC series

NEW

## EARTH TERMINAL BLOCKS

- Rated cross section 2,5 e 4 mm<sup>2</sup>
- Version 1+1 ; 1+2 ; 2+2
- Cross connection
- Compact dimension
- Insulated push button



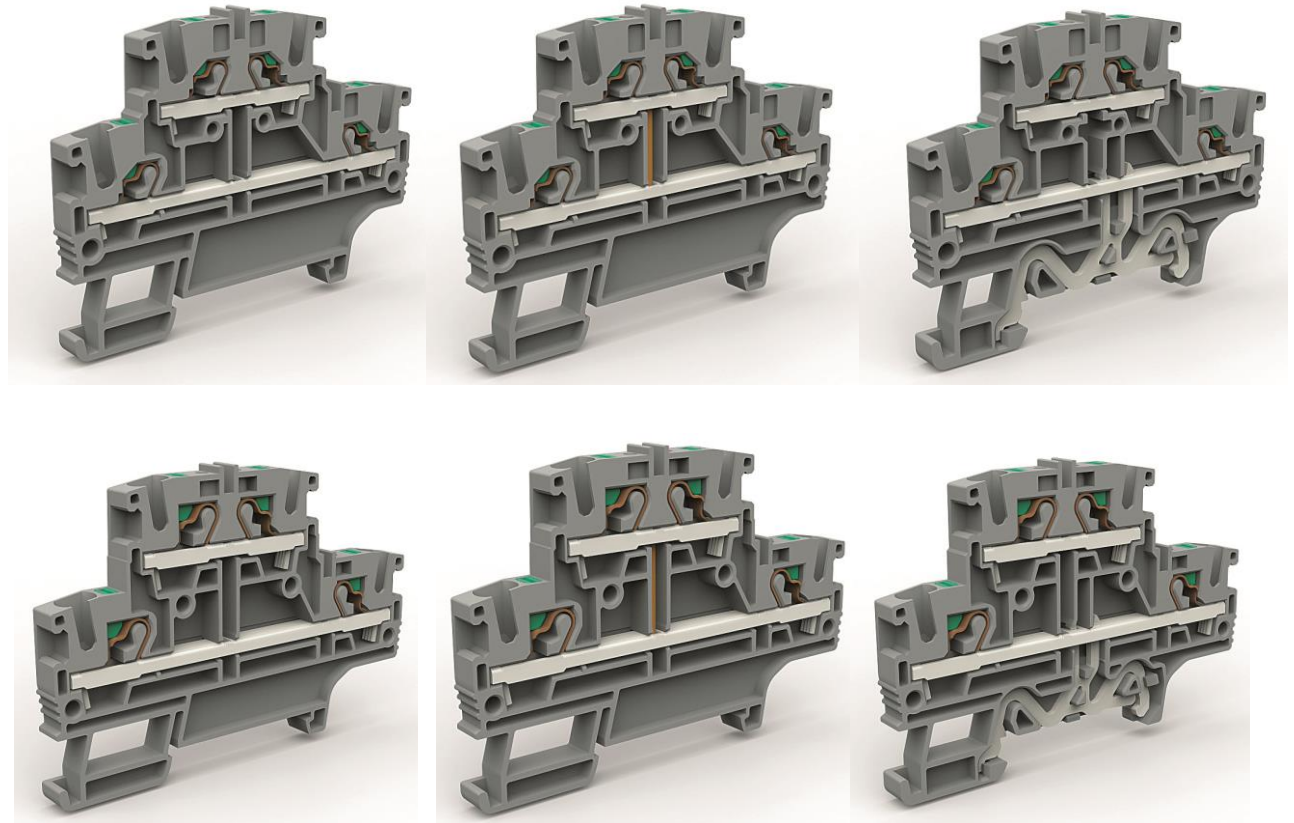


# Terminal blocks: push-in technology – EFC series

NEW

## TWO LEVELS TERMINAL BLOCKS

- Rated cross section 2,5 e 4 mm<sup>2</sup>
- Feed-through
- 2 levels with internal connection
- Earth connection version
- Cross connection on both levels
- Compact dimension
- Insulated push button

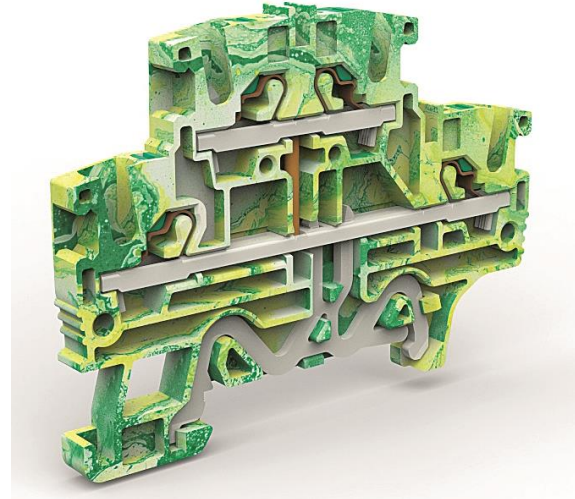


# Terminal blocks: push-in technology – EFC series

NEW

## TWO LEVELS EARTH TERMINAL BLOCKS

- Rated cross section 2,5 e 4 mm<sup>2</sup>
- 4 poles with earth connection
- Cross connection on both levels
- Compact dimension
- Insulated push button

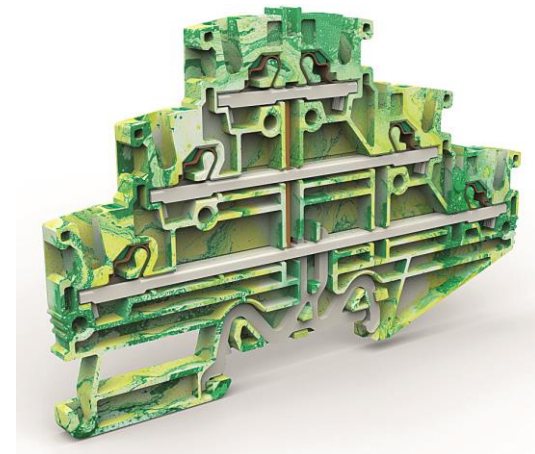
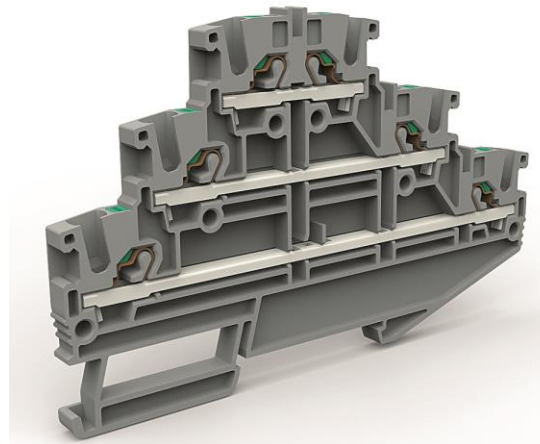


# Terminal blocks: push-in technology – EFC series

NEW

## THREE LEVELS TERMINAL BLOCKS

- Rated cross section 2,5 mm<sup>2</sup>
- 3 levels feed-through
- 6 poles feed-through
- 6 poles with earth connection
- Cross connection on all levels
- Compact dimension
- Insulated push button

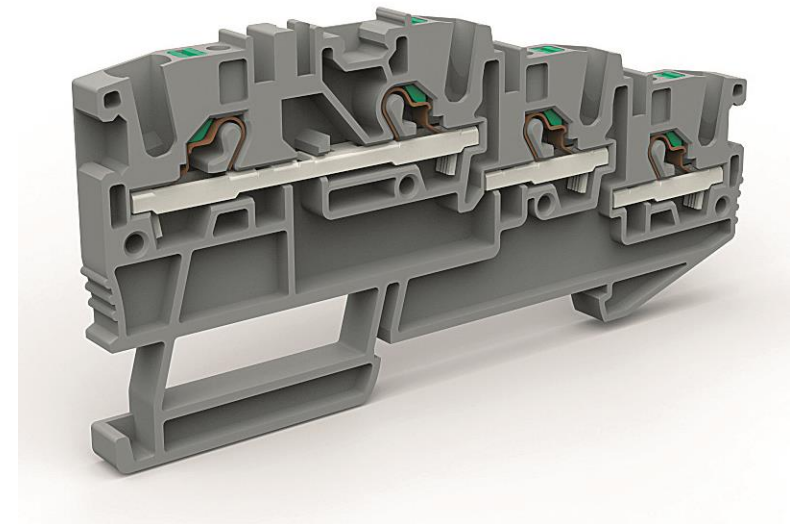


# Terminal blocks: push-in technology – EFC series

NEW

## THREE LEVELS TERMINAL BLOCKS FOR SENSORS CONNECTION

- Rated cross section 2,5 mm<sup>2</sup>
- 3 levels feed-through
- Cross connection
- Compact dimension
- Insulated push button



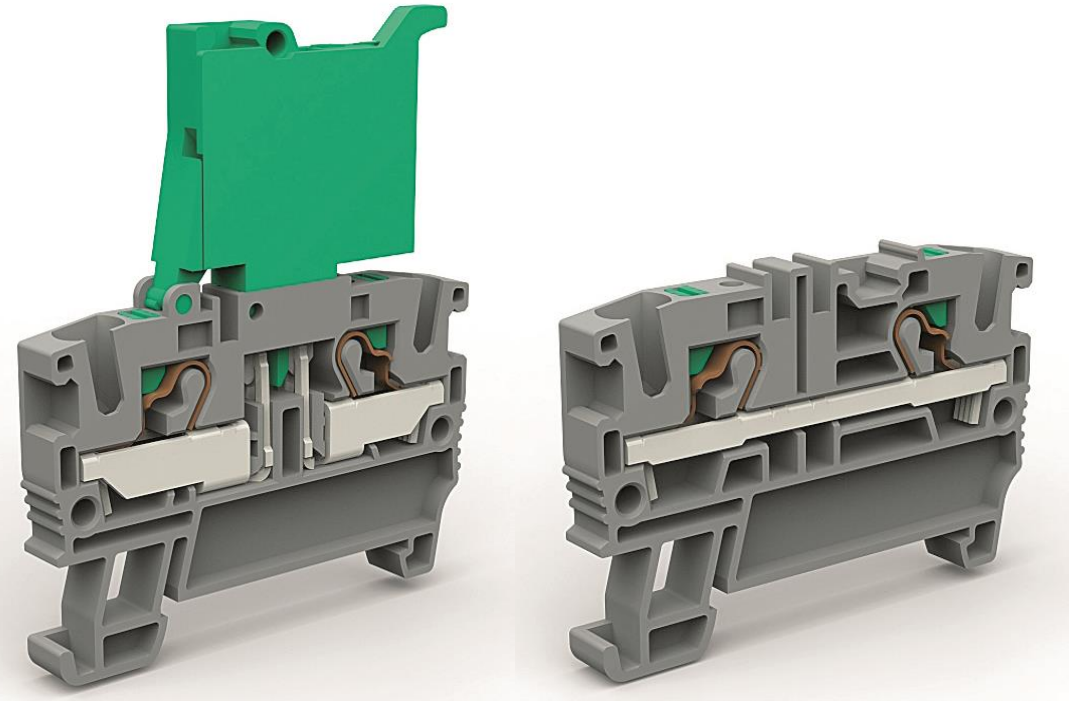


# Terminal blocks: push-in technology – EFC series

NEW

## FUSE-HOLDER TERMINAL BLOCKS

- Rated cross section 4 mm<sup>2</sup>
- Space for spare fuse
- Version with LED alarm for blown fuse
- Same dimensions as the feed-through terminal
- Cross connection
- Compact dimension
- Insulated push button



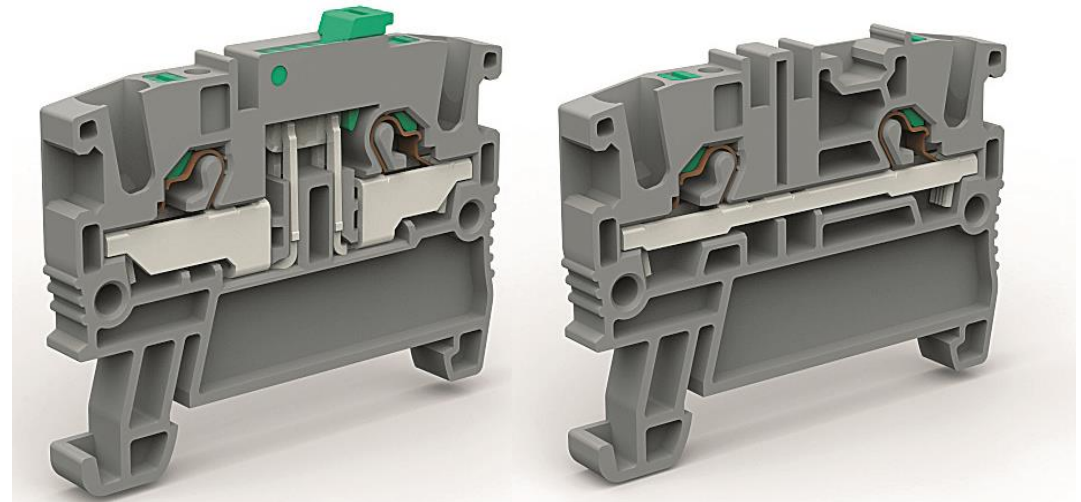


# Terminal blocks: push-in technology – EFC series

NEW

## DISCONNECTS TERMINAL BLOCKS

- Rated cross section 2.5 and 4 mm<sup>2</sup>
- Section switch not to be lost
- Same shape of feed-through terminal
- Cross connection
- Compact dimension
- Insulated push button

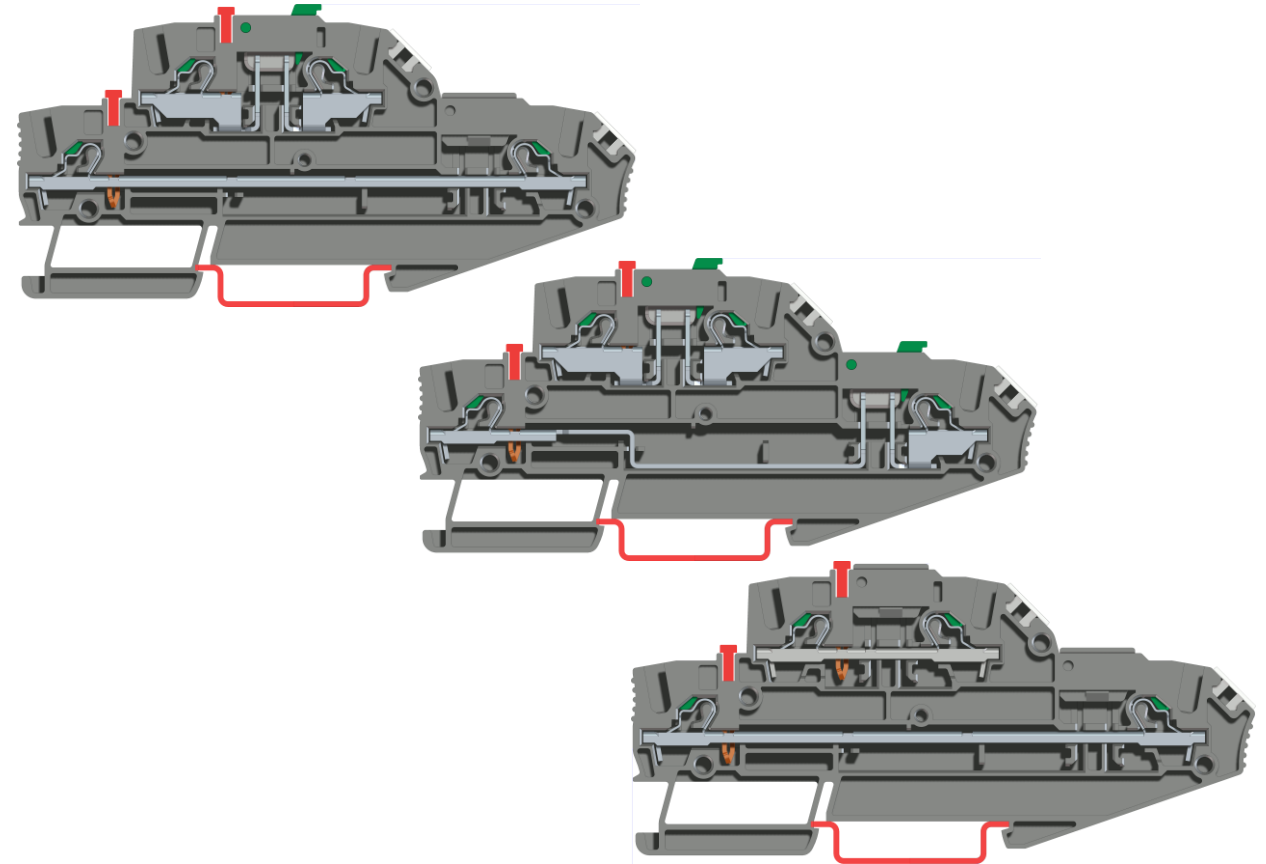


# Terminal blocks: push-in technology – EFC series

NEW

## TWO LEVEL DISCONNECTS TERMINAL BLOCKS

- Rated cross section 2.5 mm<sup>2</sup>
- 2 levels feed-through
- 2 levels with disconnect
- 2 levels 1 disconnecter + 1 feed-through
- 2 levels 1 disconnecter + 1 fuse-holder
- Cross connection
- Compact dimension
- Insulated push button



# New line EFC: Easy Fast Connection

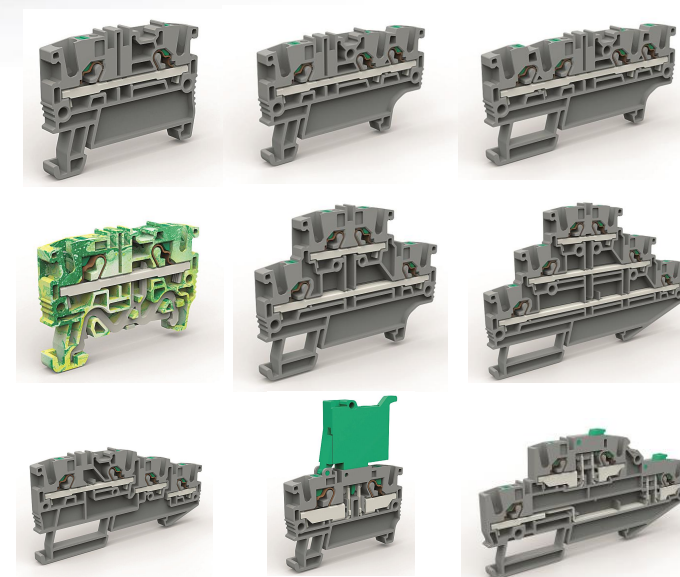
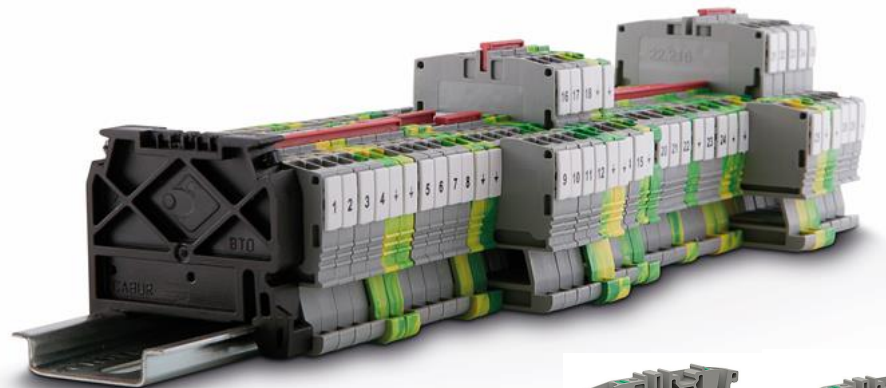
NEW

## General characteristics



- Rated cross section 2.5 and 4 mm<sup>2</sup>
- Mounting on TH35 rail
- Compact dimensions
- Fast cabling without tools due to the push-in technology
- Easy release due to the insulating push-button

## Available versions:


- Gray, Blue (and Yellow / Green)
- Feed through 1+1, 1+2 poles, 2+2 poles
- 1, 2, 3 levels, with ad without cross connection
- Earth connection terminals
- Special version: disconnecter, sensors, fuse holders, diode holders



# Nuova linea Easy Fast Connection


**EFC**   
EASY FAST CONNECTION 

**Vite**




00:00:00:00

**Molla tradizionale**



00:00:00:00

**Push In**



00:00:00:00



CONNECTING ENERGY  
SINCE 1952

# INDUSTRIAL MARKING SOLUTION

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<https://www.facebook.com/cabursrl/>



<https://www.linkedin.com/company/cabur/>



# Industrial printers

 **Smart***Print*

 **Smart***Roll*

New thermaltransfer  
printers



# New Plug&Print and Multy-Page system

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The new **Plug & Print system**, allows the installation of the MarKing Pro XT software and the SmartPrint printer on WINDOWS systems starting from WIN7 up to WIN10, it will be fast and easy and in a few moments the printer will be ready for use.

The new **Multi-Page printing function**, allows to manage the printer directly from the physical keys of the machine and allows an easier and practical use without having to have the PC nearby or for users who want to connect the printer to a printer-server.



# Smart Print : technical details

- Printing Technology: thermal transfer
- Interface: USB 2.0
- Resolution: 300x600 dpi
- INK: single colour resin Ribbon
- Printing Speed: up to 19 mm/sec
- Dimensions: 246x405x265 ( L x P x H)
- Weight: around 8kg
- Rated voltage: 100-240 VAC (external)
- New generation printing head technology
- Display LCD
- Ribbon Saving System
- Automatic printing tags types detection

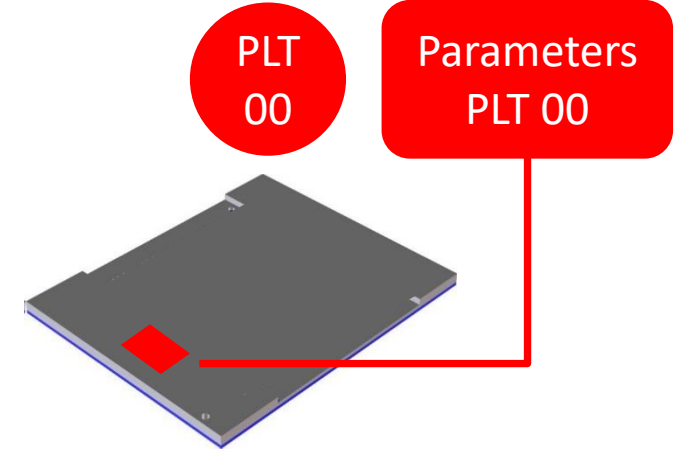
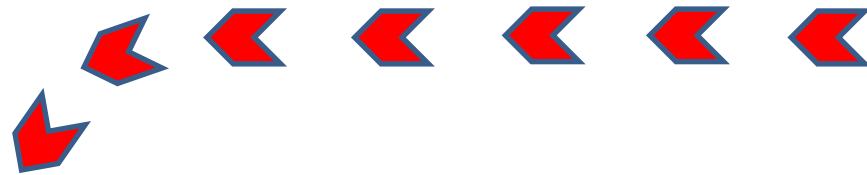
 **Smart Print**



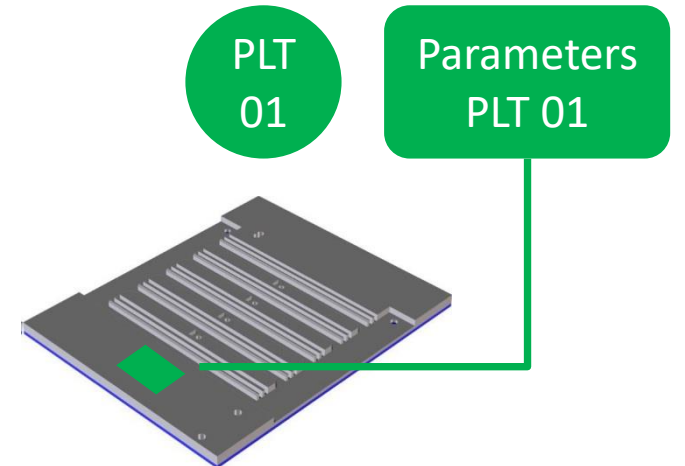
# Customization plate



Parameters PLT 00



Parameters PLT 01



# Competitors cross reference

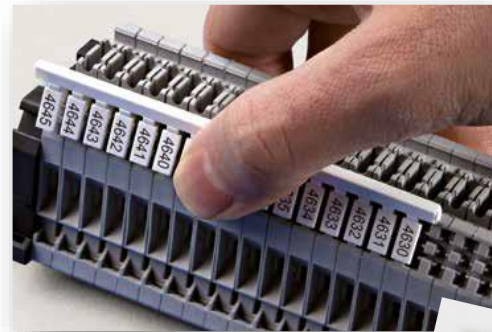
COMPANY	CABUR	PHOENIX-CONTACT		Grafoplast	WEIDMULLER
MODEL	SMART PRINT	Thermomark	Thermomark PRIME	SI2KPRINTEVO	Printjet ADVANCED
TECNOLOGY	Termal Trasfer	Termal Trasfer	Termal Trasfer	Termal Trasfer	Inkjet
RIBBON	5 colors	5 colors	4 colors	2 colors	CMYK
m	300	300	70	130	
€	121,97	272,41	122,14	202	499,43
€/m	0,407	0,908	1,745	0,643	
Save ribbon	YES	NO	NO	NO	NO
SPEED	fast	fast	fast	slow	slow
Time for 1 plate	6 sec	6 sec	6 sec	14 sec	60 sec
Display	YES	YES	YES	YES	YES





# Making plates and accessories

- Tags for terminal blocks about main manufacturers (Cabur, Phoenix, Wago, Weidmuller, ...)
- Wire labelling cable tags
- Adhesive cable marking labels
- Adhesive labels for equipment
- Modular strips for rails
- Panels identification tags
- Adhesive labels for panels
- Adhesive safety labels
- Push buttons labels
- Strip labels for PLC
- Warning labels and panels for plants, building and industry



# Cables marking

## ➤ 12 ... 23 mm tags for Cables

NUT12S - tag for cables 4x12 mm

NUT15S -tag for cables 4x15 mm

NUT18S - tag for cable 4x18 mm

NUT23S - tag for cables 4x23 mm

Material: ABS



## ➤ 10 ... 30 mm Flat Tags for Cables

NUT10FL flat tag for cables 4x10 mm

NUT12FL flat tag for cables 4x12 mm

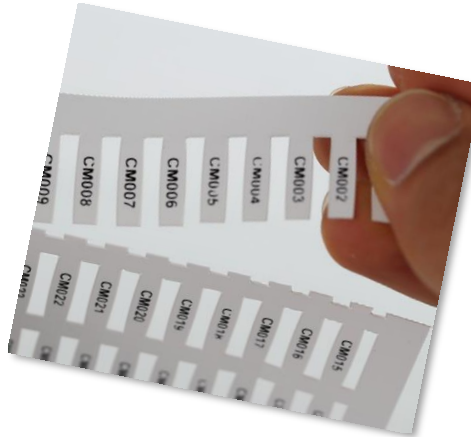
NUT15FL flat tag for cables 4x15 mm

NUT18FL flat tag for cables 4x18 mm

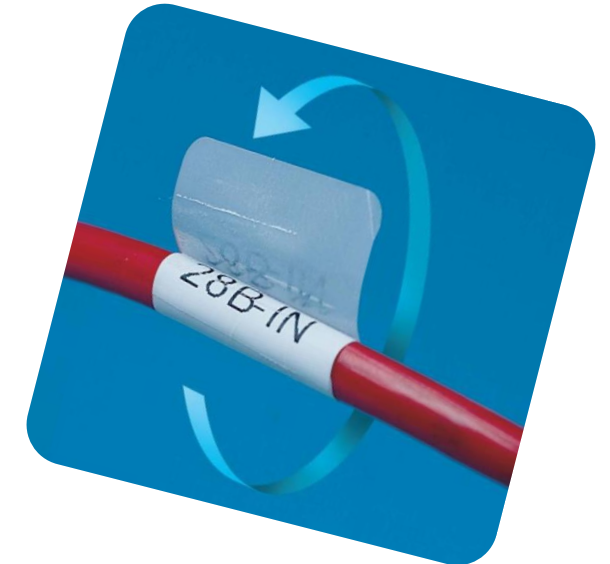
NUT23FL flat tag for cables 4x23 mm

NUT30FL flat tag for cables 4x30 mm

Material : PVC semi rigid

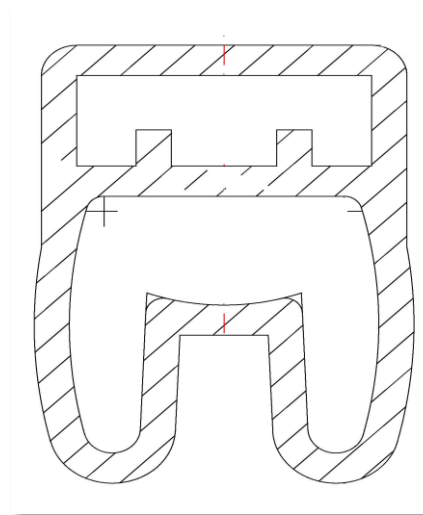


Wraparound ESA... series – for cables diameters from 4mm to 20mm



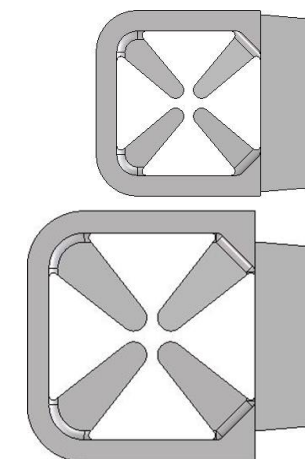
# Sleeves: TUB & TUB\*\*FL series

- Dimension 00: D. 1,0 – 2,0 mm – 0,25-1,5 mm<sup>2</sup>
- Dimension 01: D. 1,5 – 2,5 mm – 0,25-1,5 mm<sup>2</sup>
- Dimension 02: D. 2,5 – 4,0 mm – 1-2,5 mm<sup>2</sup>
- Dimension 03: D. 4,0 – 6,0 mm – 2,5-10 mm<sup>2</sup>
- Dimension 04: D. 6,0 – 9,5 mm – 6-16 mm<sup>2</sup>
- Dimension 05: D. 10 – 14 mm – 16-35 mm<sup>2</sup>
- Dimension 06: D. 14 – 20 mm – 35-50 mm<sup>2</sup>



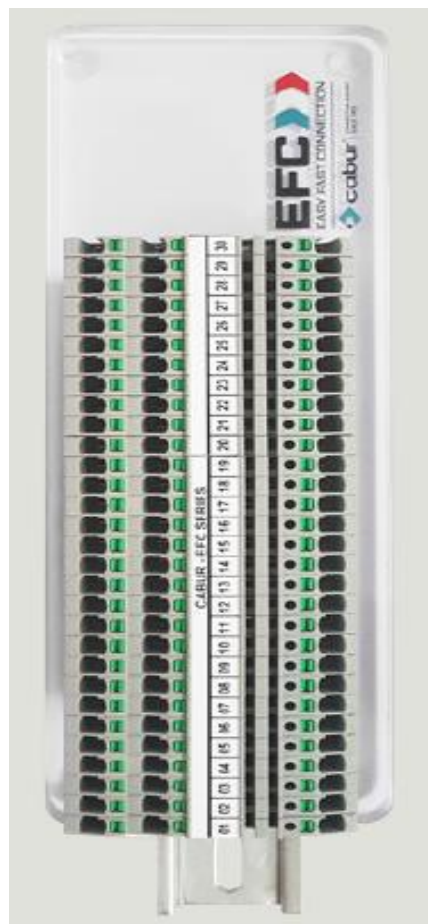
# WIRE-LABELLING CABLE TAGS

CODE	DESCRIPTION	MATERIAL	SIZE IN mm		CABLE Ø mm	COLOUR	PLATE	PCS PK.
			LENGTH	WIDTH	min-MAX			
TMC16040WS	Wire-labelling cable tags diameter from 2.6 to 4.2 mm	ABS+PC	16	5.2	2,6-4,2	White	PLT07	1080
TMC16040YS	Wire-labelling cable tags diameter from 2.6 to 4.2 mm	ABS+PC	16	5.2	2,6-4,2	Yellow	PLT07	1080
TMC101632WS	Wire-labelling cable tags diameter from 1.6 to 3.2 mm	ABS+PC	10	4	1,6-3,2	White	PLT16	1920
TMC101632YS	Wire-labelling cable tags diameter from 1.6 to 3.2 mm	ABS+PC	10	4	1,6-3,2	Yellow	PLT16	1920
TMC102044WS	Wire-labelling cable tags diameter from 2.0 to 4.4 mm	ABS+PC	10	4	2,0-4,4	White	PLT16	1920
TMC102044YS	Wire-labelling cable tags diameter from 2.0 to 4.4 mm	ABS+PC	10	4	2,0-4,4	Yellow	PLT16	1920
TMC151632WS	Wire-labelling cable tags diameter from 1.6 to 3.2 mm	ABS+PC	15	4	1,6-3,2	White	PLT16	1920
TMC151632YS	Wire-labelling cable tags diameter from 1.6 to 3.2 mm	ABS+PC	15	4	1,6-3,2	Yellow	PLT16	1920
TMC152044WS	Wire-labelling cable tags diameter from 2.0 to 4.4 mm	ABS+PC	15	4	2,0-4,4	White	PLT16	1920
TMC152044YS	Wire-labelling cable tags diameter from 2.0 to 4.4 mm	ABS+PC	15	4	2,0-4,4	Yellow	PLT16	1920





# MODULAR TAGS FOR TERMINAL BLOCKS

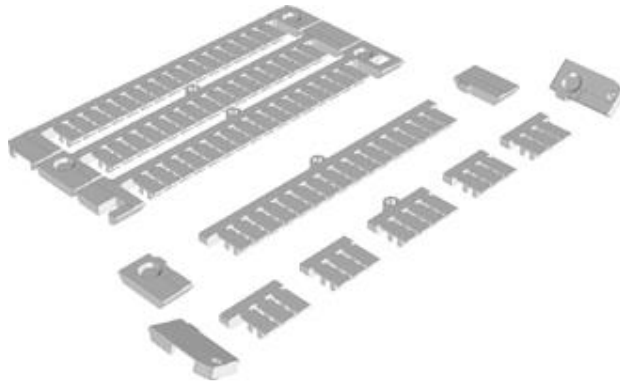


CODE	DESCRIPTION	MATERIAL	SIZE IN mm		PRINT AREA	COLOUR	PLATE	PCS PK.
			LENGTH	WIDTH	mm			
<b>TMM102105W</b>	Modular tag for Cabur EFC terminal block	PVC	105	10.2	10,2x105	white	PLT01	100
<b>TMM102105Y</b>	Modular tag for Cabur EFC terminal block	PVC	105	10.2	10,2x105	yellow	PLT01	100
<b>TMM102105AW</b>	Modular tag for Cabur EFC terminal block	ADHESIVE PVC	105	10.2	10,2x105	white	PLT01	100
<b>TMM102105AY</b>	Modular tag for Cabur EFC terminal block	ADHESIVE PVC	105	10.2	10,2x105	yellow	PLT01	100
<b>TMM97105W</b>	Modular tag for Phoenix terminal block	PVC	105	9.7	9,7x105	white	PLT01	100
<b>TMM97105Y</b>	Modular tag for Phoenix terminal block	PVC	105	9.7	9,7x105	yellow	PLT01	100
<b>TMM97105AW</b>	Modular tag for Phoenix terminal block	ADHESIVE PVC	105	9.7	9,7x105	white	PLT01	100
<b>TMM97105AY</b>	Modular tag for Phoenix terminal block	ADHESIVE PVC	105	9.7	9,7x105	yellow	PLT01	100
<b>TMM62105W</b>	Modular tag for Phoenix terminal block	PVC	105	6.2	6,2x105	white	PLT01	160
<b>TMM62105Y</b>	Modular tag for Phoenix terminal block	PVC	105	6.2	6,2x105	yellow	PLT01	160
<b>TMM62105AW</b>	Modular tag for Phoenix terminal block	ADHESIVE PVC	105	6.2	6,2x105	white	PLT01	160
<b>TMM62105AY</b>	Modular tag for Phoenix terminal block	ADHESIVE PVC	105	6.2	6,2x105	yellow	PLT01	160
<b>TMM105105W</b>	Modular tag for Wago TopJob terminal block	PVC	105	10.5	10,5x105	white	PLT01	100
<b>TMM105105Y</b>	Modular tag for Wago TopJob terminal block	PVC	105	10.5	10,5x105	yellow	PLT01	100
<b>TMM105105AW</b>	Modular tag for Wago TopJob terminal block  Entelec	ADHESIVE PVC	105	10.5	10,5x105	white	PLT01	100
<b>TMM105105AY</b>	Modular tag for Wago TopJob terminal block  Entelec	ADHESIVE PVC	105	10.5	10,5x105	yellow	PLT01	100
<b>TMM81105AW</b>	Modular tag for Weidmuller Push-in terminal block	ADHESIVE PVC	105	8.1	8,1X105	white	PLT01	120
<b>TMM81105AY</b>	Modular tag for Weidmuller Push-in terminal block	ADHESIVE PVC	105	8.1	8,1X105	yellow	PLT01	120
<b>TMM40105AW</b>	Modular tag for PCB terminal block	ADHESIVE PVC	105	4	4x105	white	PLT01	260
<b>TMM40105AY</b>	Modular tag for PCB terminal block	ADHESIVE PVC	105	4	4x105	yellow	PLT01	260





# Different item for marking electrical panel



- Tags for terminal block of Cabur and competitors
- Up to 100 tags per modul
- Use in step mode
- External panel identification and data tags
- Rigid ABS , adhesive PVC, Methacrylate, Adhesive safety imprint
- QR-code generator



# Tags and strips

- Tags and supports for push button



- Modular tags for rail



- Tags for components



# TAGS FOR PLC SIEMENS

CODE	DESCRIPTION	MATERIAL	SIZE IN mm		PRINT AREA	COLOUR	PLATE	PCS PK.
			LENGTH	WIDTH	mm			
<b>SIM2550W</b>	tag for PLC Siemens Simatic 6ES7	PVC	25.6	50	25,6x50	white	PLT01	80
<b>SIM2550Y</b>	tag for PLC Siemens Simatic 6ES7	PVC	25.6	50	25,6x50	yellow	PLT01	80
<b>SIM2550SG</b>	tag for PLC Siemens Simatic 6ES7	PVC	25.6	50	25,6x50	Siemens green	PLT01	80
<b>SIM13109W</b>	tag for PLC Siemens Simatic S7-1500 Kompakt	PVC	12.7	109	12,7X109	white	PLT01	80
<b>SIM13109Y</b>	tag for PLC Siemens Simatic S7-1500 Kompakt	PVC	12.7	109	12,7X109	yellow	PLT01	80
<b>SIM13109SG</b>	tag for PLC Siemens Simatic S7-1500 Kompakt	PVC	12.7	109	12,7X109	Siemens green	PLT01	80
<b>SIM23109W</b>	tag for PLC Siemens Simatic S7-1500	PVC	22.75	109	22,75X109	white	PLT01	40
<b>SIM23109Y</b>	tag for PLC Siemens Simatic S7-1500	PVC	22.75	109	22,75X109	yellow	PLT01	40
<b>SIM23109SG</b>	tag for PLC Siemens Simatic S7-1500	PVC	22.75	109	22,75X109	Siemens green	PLT01	40
<b>SIM1230W</b>	tag for PLC Siemens Simatic S7 ET-200SP	PVC	12.7	31	12,7X31	white	PLT01	240
<b>SIM1230Y</b>	tag for PLC Siemens Simatic S7 ET-200SP	PVC	12.7	31	12,7X31	yellow	PLT01	240
<b>SIM1230SG</b>	tag for PLC Siemens Simatic S7 ET-200SP	PVC	12.7	31	12,7X31	Siemens green	PLT01	240
<b>SIM23103W</b>	tag for PLC Siemens Simatic S7-300	PVC	22.75	103.5	22,75X103,5	white	PLT01	40
<b>SIM23103Y</b>	tag for PLC Siemens Simatic S7-300	PVC	22.75	103.5	22,75x103,5	yellow	PLT01	40
<b>SIM23103SG</b>	tag for PLC Siemens Simatic S7-300	PVC	22.75	103.5	22,75X103,5	Siemens green	PLT01	40
<b>SIM18103W</b>	tag for PLC Siemens Simatic S7-300	PVC	17.5	103.5	17,5X103,5	white	PLT01	60
<b>SIM18103Y</b>	tag for PLC Siemens Simatic S7-300	PVC	17.5	103.5	17,5X103,5	yellow	PLT01	60
<b>SIM18103SG</b>	tag for PLC Siemens Simatic S7-300	PVC	17.5	103.5	17,5X103,5	Siemens green	PLT01	60
<b>SIM1350W</b>	tag I/O Siemens Simatic ET200S	PVC	12.7	50	12,7X50	white	PLT01	160
<b>SIM1350Y</b>	tag I/O Siemens Simatic ET200S	PVC	12.7	50	12,7X50	yellow	PLT01	160
<b>SIM1350SG</b>	tag I/O Siemens Simatic ET200S	PVC	12.7	50	12,7X50	Siemens green	PLT01	160



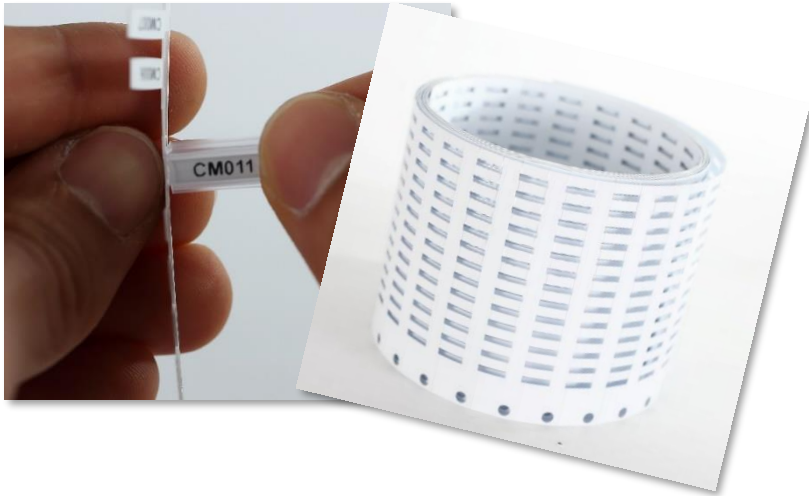
# Technical details Smart Roll

- Printing Technology: thermal transfer
- Resolution: 201 dpi
- Printing Speed: up to 355 mm/sec.
- Interface: USB 2.0
- Dimensions: 310(H) x 278(L) x 460(P) mm
- Weight: around 15kg
- Supply: 100 - 240 VAC
- Working Temperature: 5 ... 40°C



# SmartRoll items

## Flat Tags for Sleeves



## Wraparound Cable Markers



## Adhesive Tags for Components

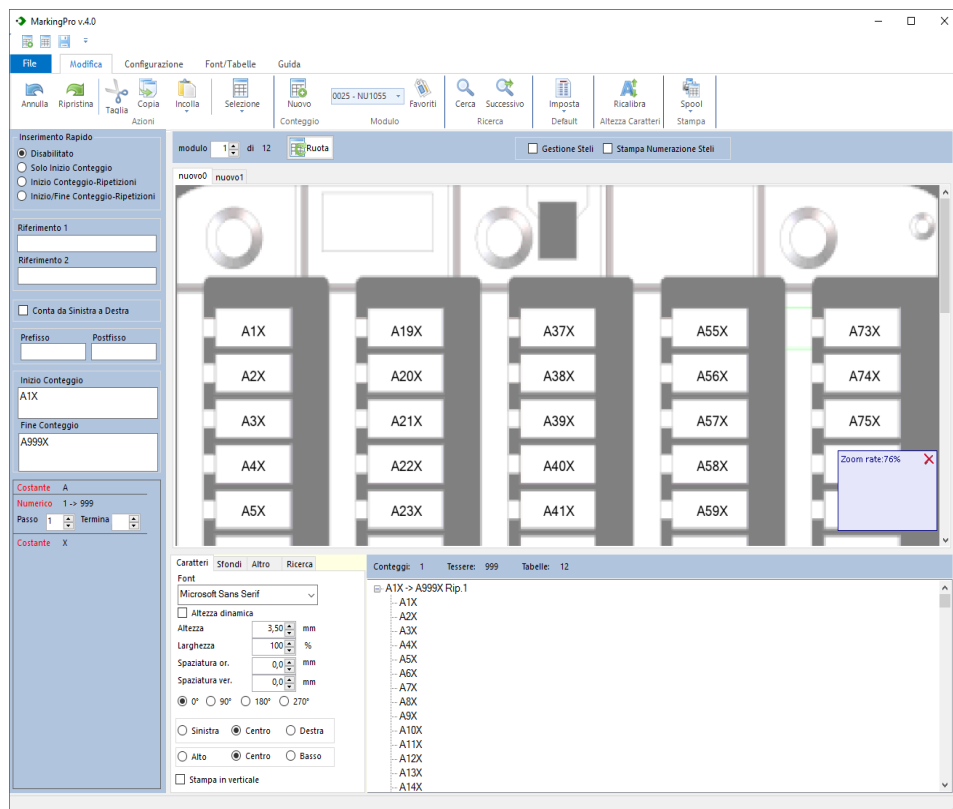




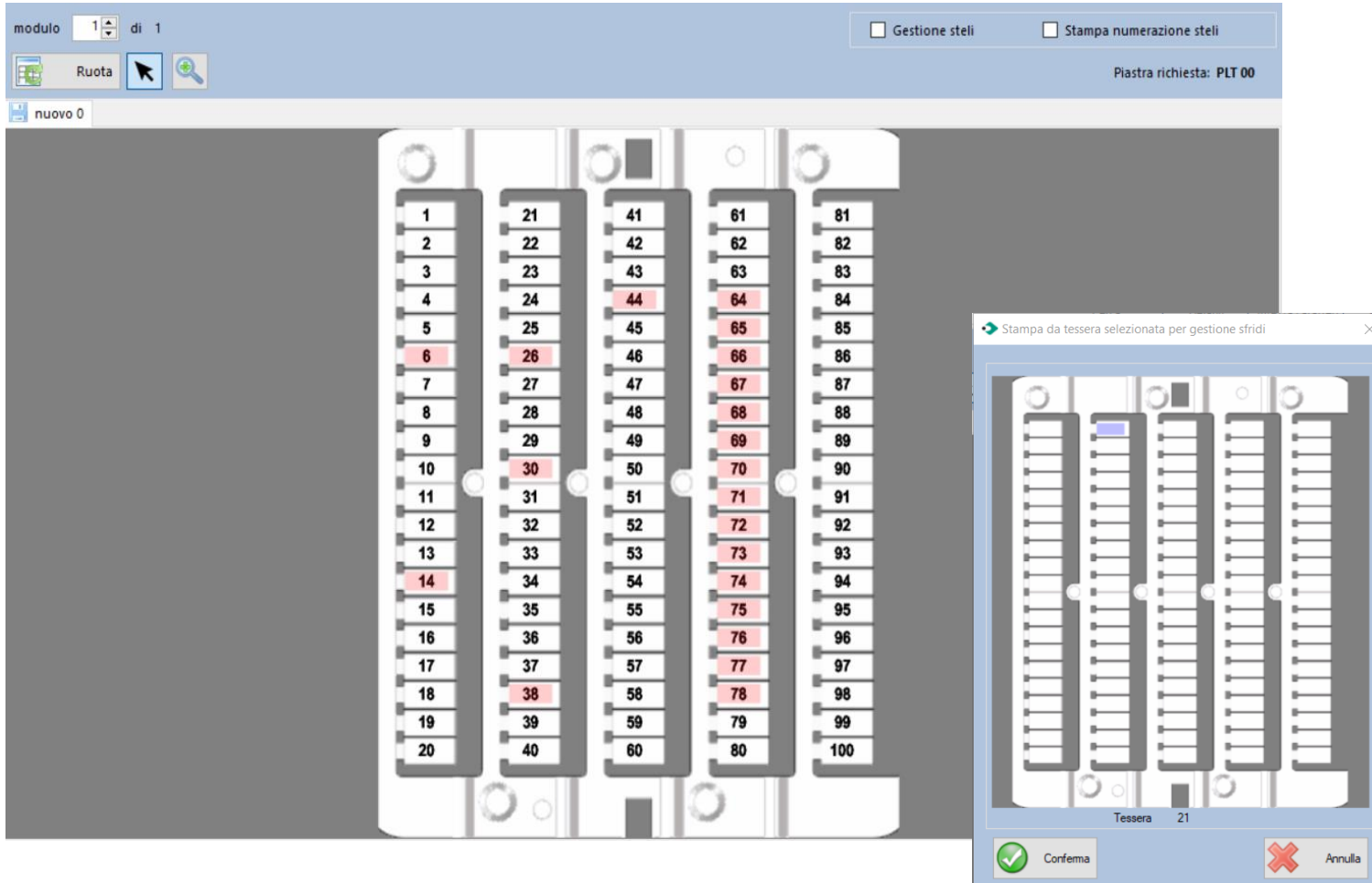


# New Software MarkingPro XT 2.0

- Automatic alphanumeric sequence generator
- Graphic Creation of Plates
- Import logos and images
- QR-CODE generator
- Compatible with S.O. Windows 7 to Windows 10



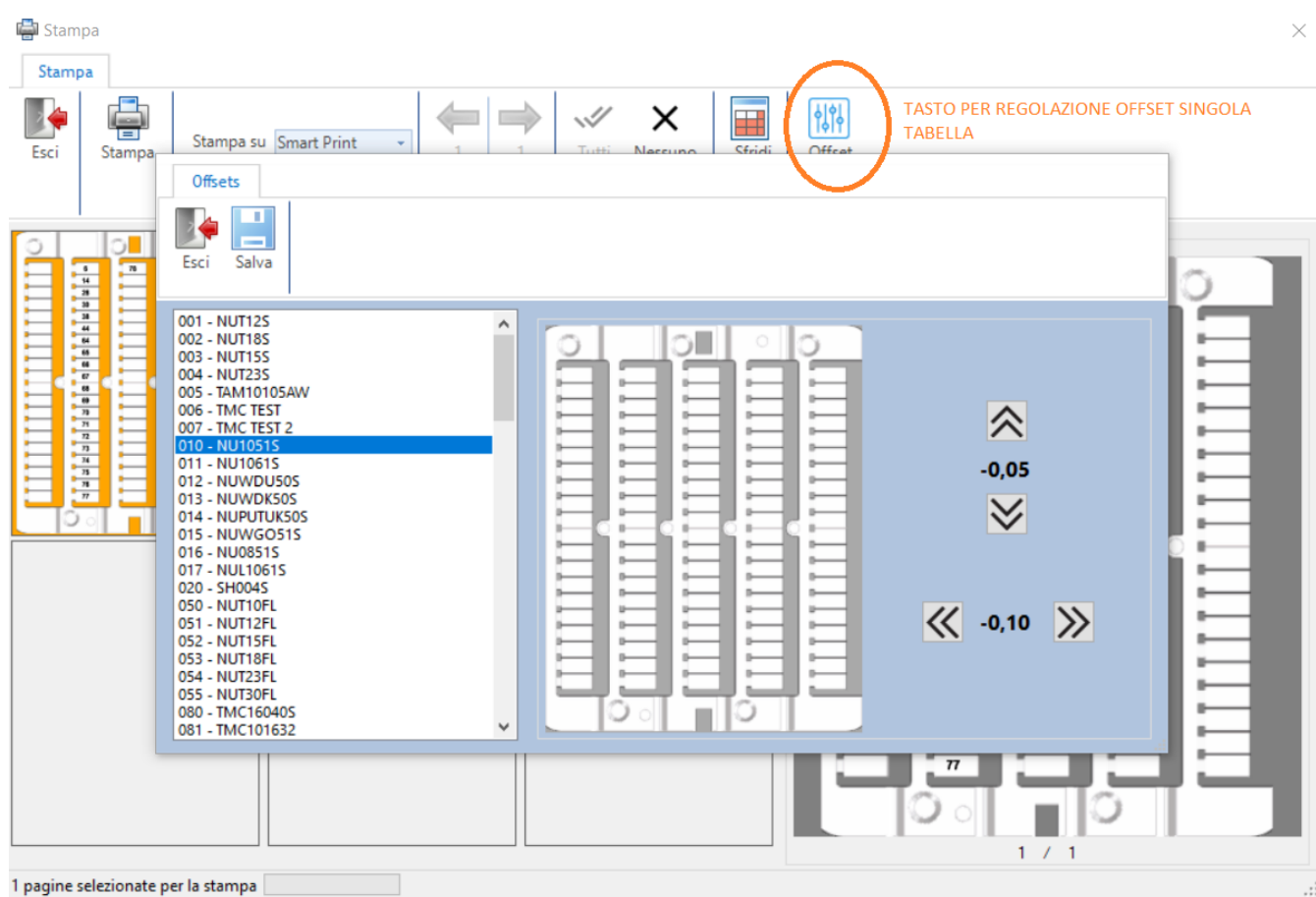
# Marking Pro XT 2.0



Ability to select the desired cards from the image and send a partial selection of the job to print



# Marking Pro XT 2.0



In the press section have «Offset» key, to adjust the centering of each individual card at the customer's discretion, creating a personalized save



# LW-Z710

- Tapes from 6 - 9 - 12 - 18 - 24 mm
- Mains power supply or 6 AA batteries
- Bluetooth connection
- Software for iOS and Android
- PC software
- Free App



[https://www.youtube.com/watch?v=K\\_sjWPcCC4](https://www.youtube.com/watch?v=K_sjWPcCC4)



# Epson LW-400VP

- ➤ Ribbons from 6 - 9 - 12 - 18 mm
- ➤ Carrying case
- ➤ Shockproof shell
- ➤ Mains power supply or 6 AA batteries
- ➤ QWERTY keyboard
- ➤ Programmed electrical symbols



[https://www.youtube.com/watch?v=VMaR1BWn\\_us](https://www.youtube.com/watch?v=VMaR1BWn_us)





# Epson LW-Z700

- Tapes from 6 - 9 - 12 - 18 - 24 mm
- Mains power supply or 6 AA batteries
- Rechargeable Lithium Ion battery
- PC software
- Carrying case
- Shockproof shell
- Magnetic feet
- Programmed symbols
- 180dpi



<https://www.youtube.com/watch?v=xg684aVT-uA>



# Epson LW-Z900

- Tapes from 6 - 9 - 12 - 18 - 24 - 36mm
- Mains power supply or 6 AA batteries
- Rechargeable Lithium Ion battery
- PC software
- Carrying case
- Shockproof shell
- Magnetic feet
- Programmed symbols
- 360dpi

<https://www.youtube.com/watch?v=Ld2k2Caz8s0>





CONNECTING ENERGY  
SINCE 1952

# Automation & Control Solution

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SITO WEB: [www.cabur.it](http://www.cabur.it)



<https://www.facebook.com/cabursrl/>



<https://www.linkedin.com/company/cabur/>

# Products range

AC/DC power supplies

DC/DC converter

DC-UPS

Overcurrent protection

EMI filters

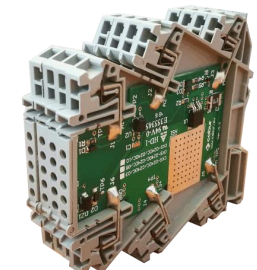
Converters and galvanic isolator

Modbus converters, switches, bridges

Electromechanical relays modules

Solid state relays modules

Cabling interfaces



# AC/DC power supplies and DC/DC converter

A complete range of power supplies, DC/DC converters and relative accessories

- Single phase, 2-phases and 3-phases input supply
- Output power from 15W to 2400W
- Output voltage from 5 to 48 Vdc and 72, 110, 170 Vdc special version
- Special models suitable for direct redundancy connection
- High efficiency, high overload capability of up to 150% of the nominal current
- Active redundancy modules with monitoring and ModBus communication
- Programmable DC-UPS modules with monitoring and ModBus communication





# AC/DC power supplies and DC/DC converter

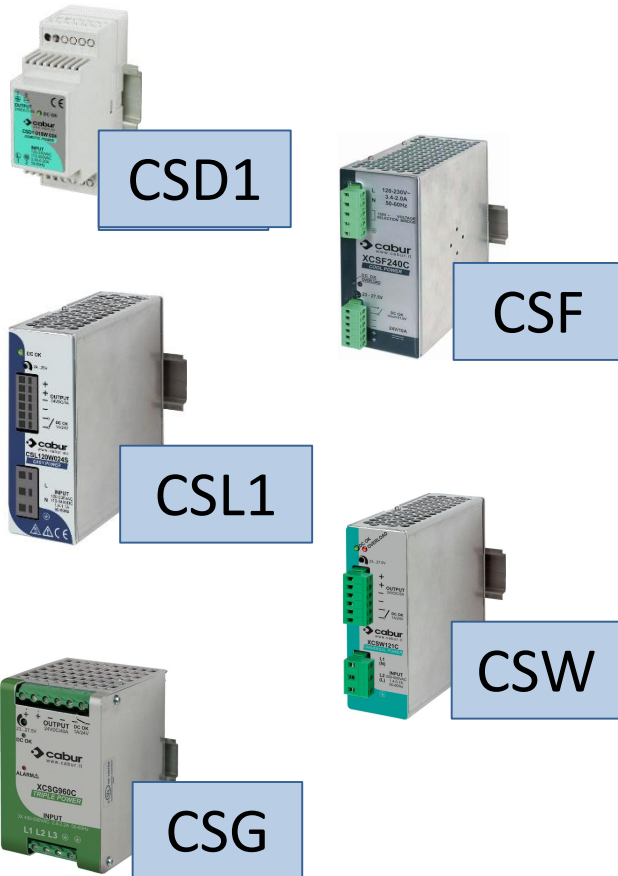
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## Our mission

- High efficiency
  - reduces the consumption = advantage for customers
  - decreases dissipation temperature = advantage for customers
  - decreases internal temperature = extend the components life
- High overload capacity
  - allows to starts heavy loads
  - allows to trigger DC protections without a voltage decreases, instead the constant current protection, decreases the output voltage with increasing of the overload
- High-quality components
  - ensures constant performance
  - ensures a longer life and reliability of the product



# Power supplies - a range for all needs



	MAINS	BASIC FUNCTION	HIGH PERFORMANCES
Single phase		CSL1	CSD1 CSF CSW
3-phase		CSL3	CSG



NEW

# DOMOTIC POWER: CSD1 series



## Features:

- 1-phase input 120-230Vac e 100-340Vdc
- Power: 15 up to 70W
- Power boost +150%
- Compact size
- Isolation class 2
- Thermal protection
- Approvals: UL508, UL62368-1, CE

## Applications:

- Flat enclosure design for low profile panel
- Building automation
- Limited size plant electrical panels

15W	30W	72W
12V	12V	12V
24V	24V	24V



# COOL POWER: CSF series



## Features:

- 1-phase input 120-230Vac e 100-340Vdc
- Power: 85 up to 480W
- Power boost +150...+180%
- Threshold alarm contact (Unom -10%)
- Approvals: UL508, UL60950, RINA

## Applications:

- High reliability industrial automation
- Process control
- Heavy loads

30W	72W	85W	120W	240W	480W
		12V			
24V		24V	24V	24V	24V
		24V [R]	24V [R]	24V [R]	24V [R]
			48V	48V	48V
					72V



NEW

# EASY POWER: CSL series



**Features:**

- 1-phase input 120-230Vac
- Power: 85 up to 480W
- Power boost +150%
- Compact size
- Thermal protection
- Basic functions for low cost applications
- Approvals: UL508

**Applications:**

- Automation

72W	85W	120W	240W	480W
24V		24V	24V	24V





NEW

# EASY POWER: CSL series



### Features:

- 1-phase input 120-230Vac models
- 3-phase input 400-500Vac models
- Output: 24V, 48V, 72V / 480W
- Power boost +150%
- Compact size
- Thermal protection
- Basic functions for low cost applications
- Approvals: UL508 pending

### Applications:

- Automation



# TRIPLE POWER: CSG series



## Features:

- 3-phase input 400-500Vac
- Power: 480 up to 2400W
- Power boost +150%
- Threshold alarm contact (Uout nom. -10%)
- Approvals: UL508, CE

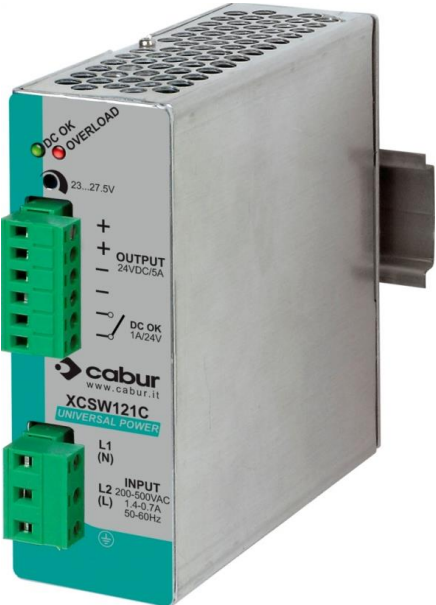
## Applications:

- High reliability industrial automation
- Process control
- Heavy loads

480W	720W	960W	2400W
24V	24V	24V	24V
		48V	48V
		72V	72V
			110V



# UNIVERSAL POWER: CSW series



**Features:**

- 1-2-3 phase input 187...550Vac
- Power: 120 up to 960W
- Power boost +150%
- Threshold alarm contact (Unom -10%)
- Compact dimension
- Approvals: UL508, UL60950, RINA, ATEX

**Applications:**

- High reliability industrial automation
- Process control
- Heavy loads

120W	240W	480W	720W	960W
12V	12V			
24V	24V	24V		24V
	48V	48V		
		72V		



# DC-UPS 12-24V CSU120S (5A) CSU240S (10A)

NEW

Connected to a 12V or 24V DC line, keep a battery in charge and avoid the blackout in case of failure of the primary DC source

## Characteristics:

- Selectable voltage range 12 and 24V
- Parameter selectable via ModBus interface (both models) and via Dip-Switch (only CSU120S)
- Can be connectet to a PC or PLC for parameters monitoring
- The microprocessor automatically selects the most appropriate charge algorithm and test the battery efficiency according to the model
- Two independent and configurable alarms
- Configurable remote control for output or charge switch off
- Buffer timer, for delayed shutdown



# DC-UPS 12-24V

NEW

	XCSU240S	XCSU120S
<b>Input</b>	Voltage: 11 ... 30 Vdc Current: 10 A max	Voltage: 12 or 24 Vdc Current: 5 A max
<b>Battery</b>	Voltage: 12 - 24Vdc 10 Ah Chemistry: Pb/NiMh/NiCd	Voltage: 12 - 24Vdc 5 Ah Chemistry: Pb/NiMh/NiCd
<b>Applicable load</b>	Voltage: 12 or 24 Vdc Current: 10 A max	Voltage: 12 or 24 Vdc Current: 5 A max
<b>Signals</b>	2 alarms 24Vdc/1A (open collector)	2 alarms 24Vdc/1A (open collector)
<b>Communication</b>	RS485 – ModBus RTU	RS485 – ModBus RTU
<b>Dimension</b>	40x115x128 mm (WxHxD)	70x88x63 mm (WxHxD)





# Analog signal converters



## Product range:

- Galvanic isolators
- Analog signal converters
- Analog signal converters with/without alarm relay
- Temperature converters with/without alarm relay
- Frequency converters with/without alarm relay
- Current converters with/without alarm relay

## Features:

- Models programmable via DIP-Switches
- Models programmable via software
- High precision



# CIO series - analog signal to Modbus converters

NEW



## Features:

- Compact dimension: 78x115x16 mm ( 4 channels)
- Pluggable terminals
- 9...30Vdc supply
- ModBus RTU output
- Parameters selectable via Software CaburLab

## Application:

- Remote control
- Process control
- Revamping of old automation machines



# CIO series - analog signal to Modbus converters

NEW



## Product range:

Models	Description
CIO-4I/MB	4 IN $\pm 20\text{mA}$ / OUT Modbus
CIO-4V/MB	4 IN $\pm 10\text{V}$ / OUT Modbus
CIO-4T/MB	4 IN Thermocouples / OUT Modbus
CIO-4R/MB	4 IN Thermoresistors-Potentiometers / OUT Modbus
CIO-4RLY/MB	1 IN Modbus / 4 relays with NA contact
BRIDGE-RS485-ETH	Converter Modbus/Ethernet
BRIDGE-RS485-WIF	Converter Modbus/WiFi
BRIDGE-RS485-MB	Converter Modbus RTU/Modbus TCP



# SWET series – unmanaged ethernet switches

NEW



## Features:

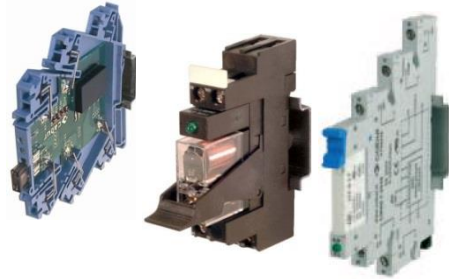
- 5 and 8 ports, copper and LC fiber port options
- 12...36VDC and 10...24VAC power supply
- Designed to meet Level 3 (Heavy) industrial environments
- Metal enclosure IP30 protection degree
- DIN rail mountable
- Metal brackets for assembly in a panel in 6 different positions
- Very compact dimension

## Application:

- Automation
- Process control



# Relay modules



## Single relay modules

- Removable relay
- Electromechanical or solid state relay



## Multiple relay modules

- Equipped with 4,8,16 relays, removable or not
- Electromechanical or solid state relay
- With protection fuse or test button
- Version with PLC connection



## Supercompact multiple modules

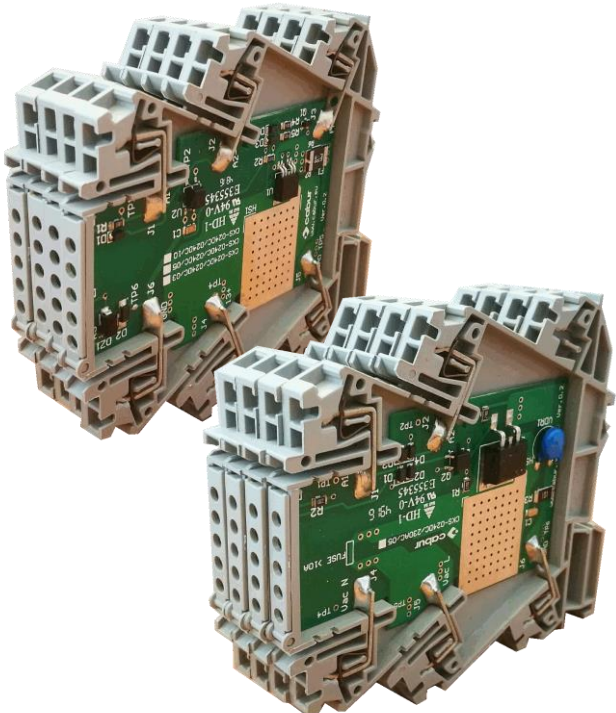
- 4 e 8 relays with 8A/250V contacts in only 22.5 mm
- 4 e 8 removable relays with 8A/250V contacts in only 35 mm
- Removable terminal blocks





NEW

# New CKS solid state relay modules



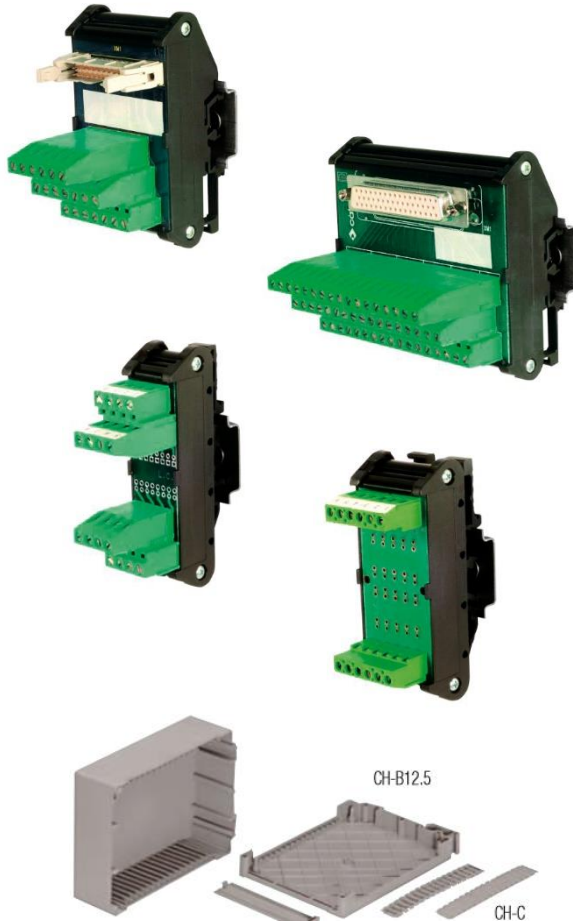
**Features:**

- Electronic protection against short circuit and overload
- Thermal protection
- Pitch 6 mm
- Clamp connection
- Failure signal (on DC models)

Models	Description
CSK 024DC 024DC 03	5-30 Vdc / 5-24 Vdc 3 A
CSK 024DC 024DC 05	5-30 Vdc / 5-24 Vdc 5 A
CSK 024DC 024DC 10	5-30 Vdc / 5-24 Vdc 10 A
CSK 024DC 230AC 05	9-30 Vdc / 24-230 Vac 5 A



# Cabling interfaces and accessories



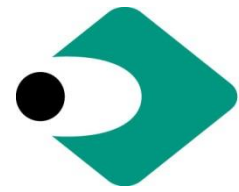
## Product range:

- D-Sub connector modules
- IDC connector modules (flat cable)
- Diode modules
- Component holder modules
- Lamp test and LED test modules
- DIN rails and hooks for DIN rail
- Plastic enclosures for customized solution

## Features:

- Wide range of models
- They simplify and solve wiring problems





**cabur**<sup>®</sup>

CONNECTING ENERGY  
SINCE 1952

# SOLUTION FOR RENEWABLE ENERGY



# Photovoltaic Products line

## Electrical Control Panel



## Photovoltaic connectors and accessories



## AC and DC SPD



# Electrical control panel

---

## Electrical control panel line

### ISL line

DC/AC electrical control panels

### ISA line

DC electrical control panels with release coil

### ISB line

DC electrical control panels without release coil

- High adaptability to different types of systems
- High electrical performance
- Designed according to standard compliance (CEI EN 61439-2)



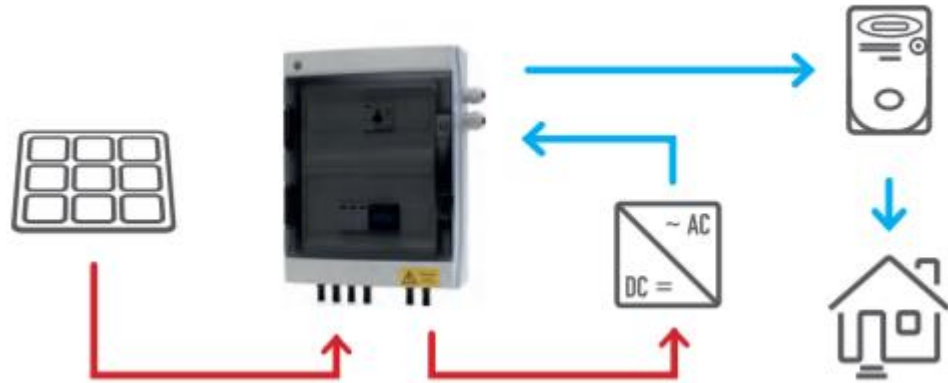
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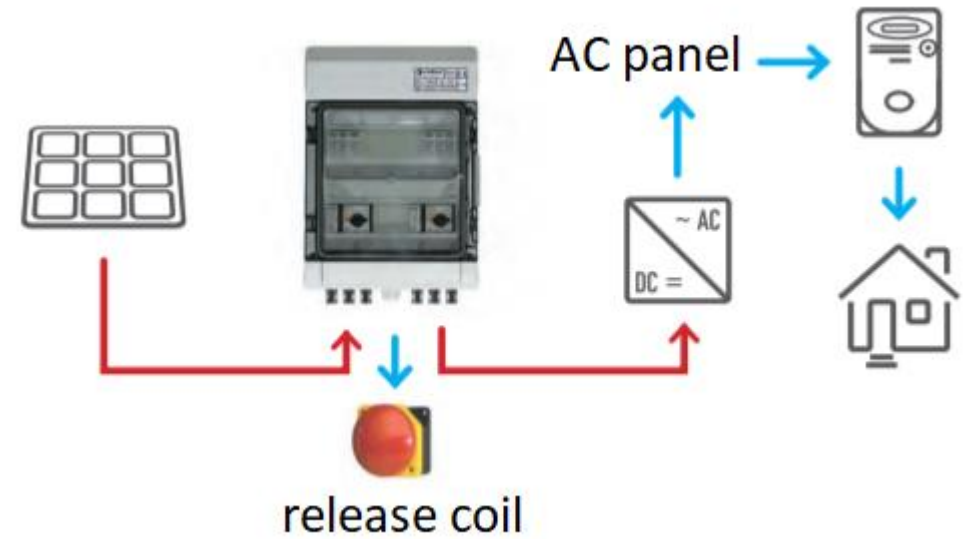


# Photovoltaic control panel (Cabur Series)

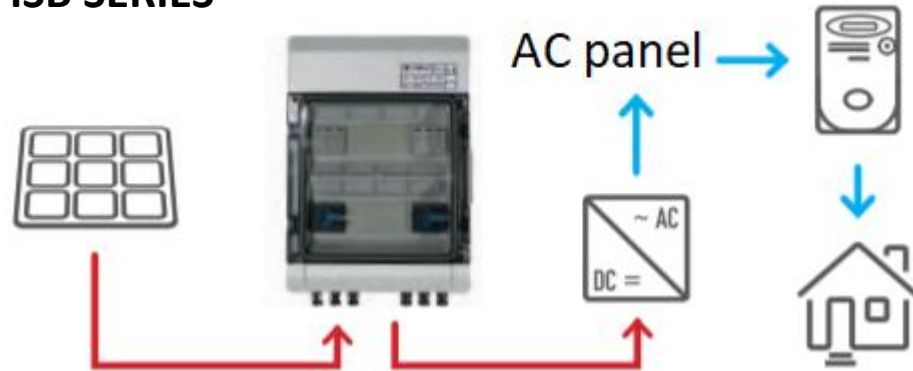
## ISL SERIES



## ISA SERIES



## ISB SERIES



## DC PV stringboxes with monitoring circuit



- Up to **16 DC inputs** from the Photovoltaic field based on Cabur Line 4 connectors
- **1 DC outputs** to the Photovoltaic inverter based on **Cabur Line 4 connectors**
- **DC surge protective device**
- Suitable for **1000V** systems
- With **230 Vac release coil** (16 strings version)
- With **current and voltage strings monitoring**
- **Modbus RTU** communication

ISM0801CA10

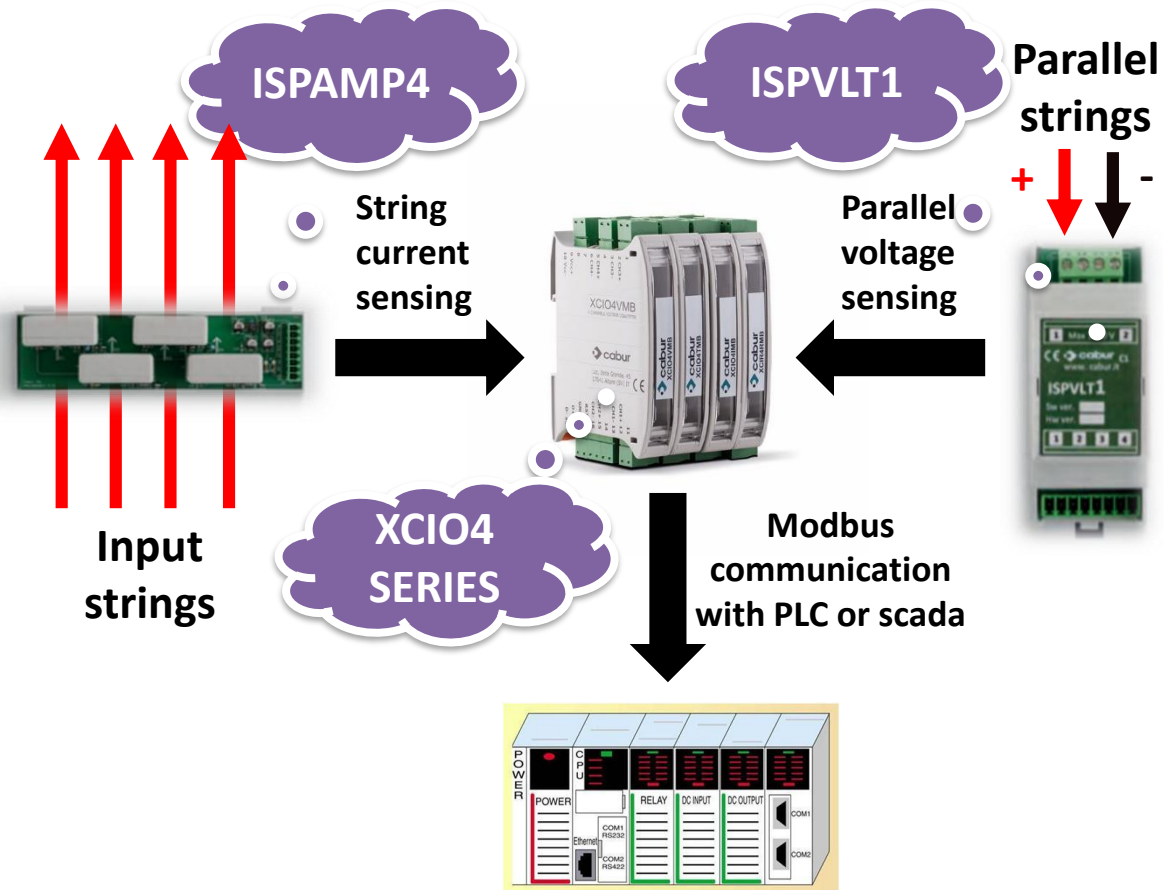
ISM0801CA10

ISM1601CA10

ISM1601CA10



# Monitoring system



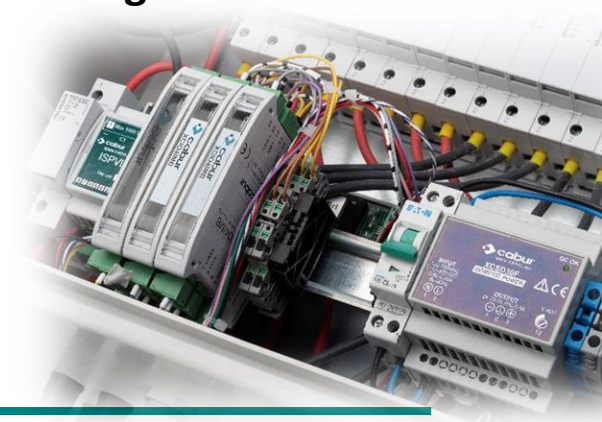
What do you need for monitoring your systems?

- XCIO4IMB, XCIO4VMB
- ISPVLT1
- ISPAMP4

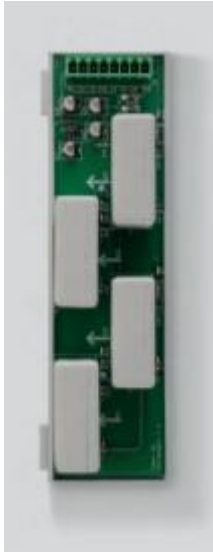
In order to complete the system you need a PLC, that allows the acquisition of XCIO4 devices.

With this system you can monitoring:

- Strings current
- Parallel strings voltage



# Monitoring system



## ISPAMP4 – current sensor

This product is composed by 4 Hall sensors that allow the sensing of strings current flow.



## ISPVLT1 – voltage transducer

This product can managed voltage up to 1000Vdc and transduce that value in a 0...10Vdc signal.



# Monitoring system



## XCSD30F – power supply

This is a switching power supply with dual output (-12V, 0, +12V). We need this kind of voltage because the ISPAMP4 and ISPVLT1 transducer need it.



## XCIO4 – I/O modbus

The XCIO4 devices are analog converters, fully programmable through a PC application and with Modbus communication interface.

There are five different model:

- **XCIO4VMB** (VOLTAGE CONVERTER)
- **XCIO4IMB** (CURRENT CONVERTER)
- **XCIO4TMB** (THERMOCOUPLE CONVERTER)
- **XCIO4RMB** (THERMORESISTANCE AND POTENTIOMETER CONVERTER)
- **XCIO4RLYMB** (RELAY MODULE)





# ISL line (AC/DC)

Catalogue code:



ISL0101CA06

ISL0101CA10

ISL0201CA06

ISL0201CA10

ISL0202CA06

ISL0202CA10

ISL02T01CA06

ISL02T01CA10

ISL02T02CA06

ISL02T02CA10



## ISL line (AC/DC)

		Type of AC	Input string	
			1	2
MPPT output	1	1-phase	ISL0101CAXX	ISL0201CAXX
		3-phase	ISL02T01CAXX	ISL02T01CAXX
	2	1-phase	-	ISL0202CAXX
		3-phase	-	ISL02T02CAXX



# ISA line

Catalogue code:



ISA0201CA06

ISA0201CA10

ISA0401CA06

ISA0401CA10

ISA0402CA06

ISA0402CA10

ISA0801CA10



# ISA line

		Input string			
		1	2	4	8
MPPT output	1	ISA0201CAXX	ISA0201CAXX	ISA0401CAXX	ISA0801CAXX
	2	-	ISA0402CAXX	ISA0402CAXX	-



# ISB line

Codici a catalogo:



ISB0101CA10

ISB0201CA06

ISB0201CA10

ISB0202CA10

ISB0401CA06

ISB0401CA10

ISB0402CA06

ISB0402CA10





# ISB line

		Input string		
		1	2	4
MPPT output	1	ISB0101CA10	ISB0201CAXX	ISB0401CAXX
	2	-	ISB0202CA10	ISB0402CAXX



# SPD products

## DC SPD



- Nominal voltage 600V-1000V
- Class 2
- Discharge current 40kA
- Response time  $\leq 25\text{ns}$

## AC SPD



- Nominal voltage 275Vac/440Vac
- Class 2
- Discharge current 60kA
- Response time  $\leq 25\text{ns}$

## AC compact SPD



- Nominal voltage 275Vac /440Vac
- Class 2
- Discharge current 40kA
- Response time  $\leq 25\text{ns}$
- 1-phase – 1 module
- 3-phase – 2 module



# Photovoltaic Connectors

## Cabur Line 4

- Panel connectors, flying and Y
- Cable section:  $4\text{mm}^2$ ,  $6\text{mm}^2$ ,  $10\text{mm}^2$
- Maximum current: 25A
- Maximum voltage: 1000Vdc
- Suitable for all inverters type
- IP67



# Photovoltaic connectors

Connector type	Cable sect. 4 – 6 mmq	Cable sect. 10 mmq
Male Panel	IS14110P	-
Female Panel	IS24111P	-
Male Flying	IS14240	IS14242
Female Flying	IS24241	IS24243
Male Y Flying	IS14410	IS14410
Female Y Flying	IS42420	IS42420



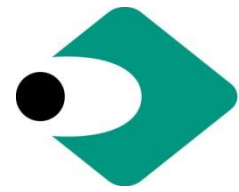
## Accessories

### Crimping tool:

Type of crimping tool	Cable section	Crimping tool code	Mold code
With removable mold	2,5 – 4 – 6mmq	UMCT3149	IS3154
	10 mmq	-	-
With fix mold	2,5 – 4 – 6mmq	IS3161	-
	10 mmq	IS3110	-







**cabur**<sup>®</sup>

CONNECTING ENERGY  
SINCE 1952

Thank you

