

**connectwell**  
THE RIGHT CONNECTION



SOLUTIONS FOR **ELECTRICAL INDUSTRY**

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## Solutions for Transmission & Distribution Industry

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Worldwide Electrical grids, including their automation and communication technology, are being modernized and upgraded. Terminal Block solutions from Connectwell are enabling system builders in the field of Transmission and Distribution technology to further enhance their product offerings. An expanded product portfolio of Bolt / Stud Type Terminal Blocks gives Switchboard Panel designers more flexibility while adhering to stringent Utility specifications. Current Transformer Terminal blocks in different connection technologies ensures safe and reliable system testing and calibration.



## Solution for Conventional Power Generation

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Conventional Power plants still remain the backbone of most of the Energy grids in both developed and developing countries. With renewed pressure on efficiently using natural resources, for running these traditional power plants, utilities are constantly updating and upgrading their control systems for running these Conventional Power plants. New solutions, like the High Performance CY Series Terminal Blocks, enable System Integrators to maintain legacy systems like screw connections while reaping the benefits of added features to improve safety and reliability. Product solutions like the Next Generation Cable Drag Chains, benefit material handling equipment suppliers at these conventional power plants.

## Solutions for Renewable Power Generation

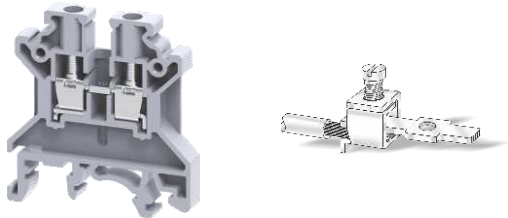
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Wind and Solar Power systems are reshaping the global landscape in Energy Generation. New product solutions from Connectwell enables plant operators and system builders to keep upto date with the rapidly changing standards. New CHV series 1500 VDC certified terminal blocks follow the latest IEC guidelines and are suitable for next generation large scale Solar Power plants and rooftop installations. Our line of Heavy Duty Connectors and CX series "Pluggable" Terminal Blocks offer quick and reliable solutions in Wind Power Installations.



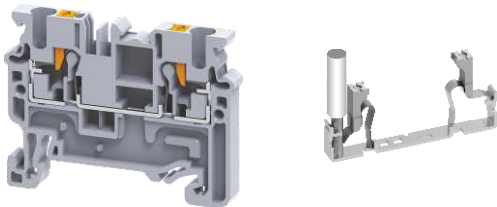
# CONNECTION TECHNOLOGY Terminal Blocks

## SCREW CLAMP CONNECTION



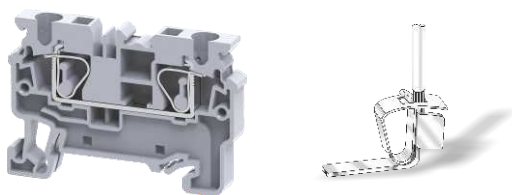
- > Suitable for all cross-sections and types of wires
- > Wires can be connected without any special preparation
- > Wire can be simply connected and disconnected with ordinary screw driver
- > The cold forged rolled threaded screws provide high tightening torque
- > Gas-tight connections with strong contact forces
- > Very low contact resistance

## PUSH-IN CONNECTION



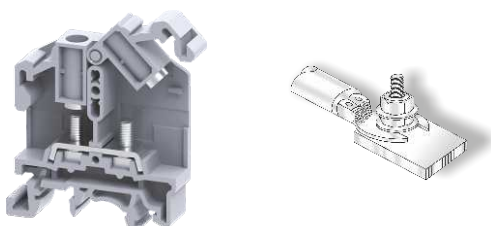
- > Specialized connection system that enables tool-less wiring
- > Fastest connection method with over 75% time savings as compared to conventional connection methods
- > Reliable, vibration resistant, gas-tight connections are made with inbuilt high-quality stainless steel Push-In spring clamps
- > Lugged cable & solid wires can be directly pressed into the clamp to make connections
- > The Push button on the top is pressed for connecting a flexible wire without crimped lug / ferrule

## SPRING CLAMP CONNECTION



- > Easy to operate, versatile and vibration proof
- > Very low contact resistance
- > Gas tight connection made by the high quality stainless steel spring clamp
- > Maintenance free and safe connection
- > Surface treated (tin plated) electrolytic copper current bar ensures oxidation free contact
- > Ideal for applications subject to severe vibrations

## STUD / BOLT TYPE CONNECTION



- > Ideal for heavy duty wire connections for larger size conductors
- > Suitable for connections that are subject to very severe vibrations
- > The wire is crimped to a ring / fork type lug / ferrule and is screwed on to the flat current bar in the Terminal Block
- > High contact force and large contact surface area
- > Hinge type connection for finger safe protection
- > Bolt type connections for high current applications

# Classic CTS Series

## Screw Clamp Terminal Blocks

- Fuse Terminal Blocks in 8 mm and 6 mm pitch
- Universal voltage rating of 6-60 V & 110-240 V available for offline indication

Knife Disconnecting Terminal Block for ease of disconnecting electrical circuits

Earthing Terminal Blocks for terminating earthing wires coded yellow-green colour as per industry standards

Sliding type Disconnecting Terminal Block for current transformers & power meters

Auxiliary Terminal Block for providing extra connection point for indicator or contractor application.

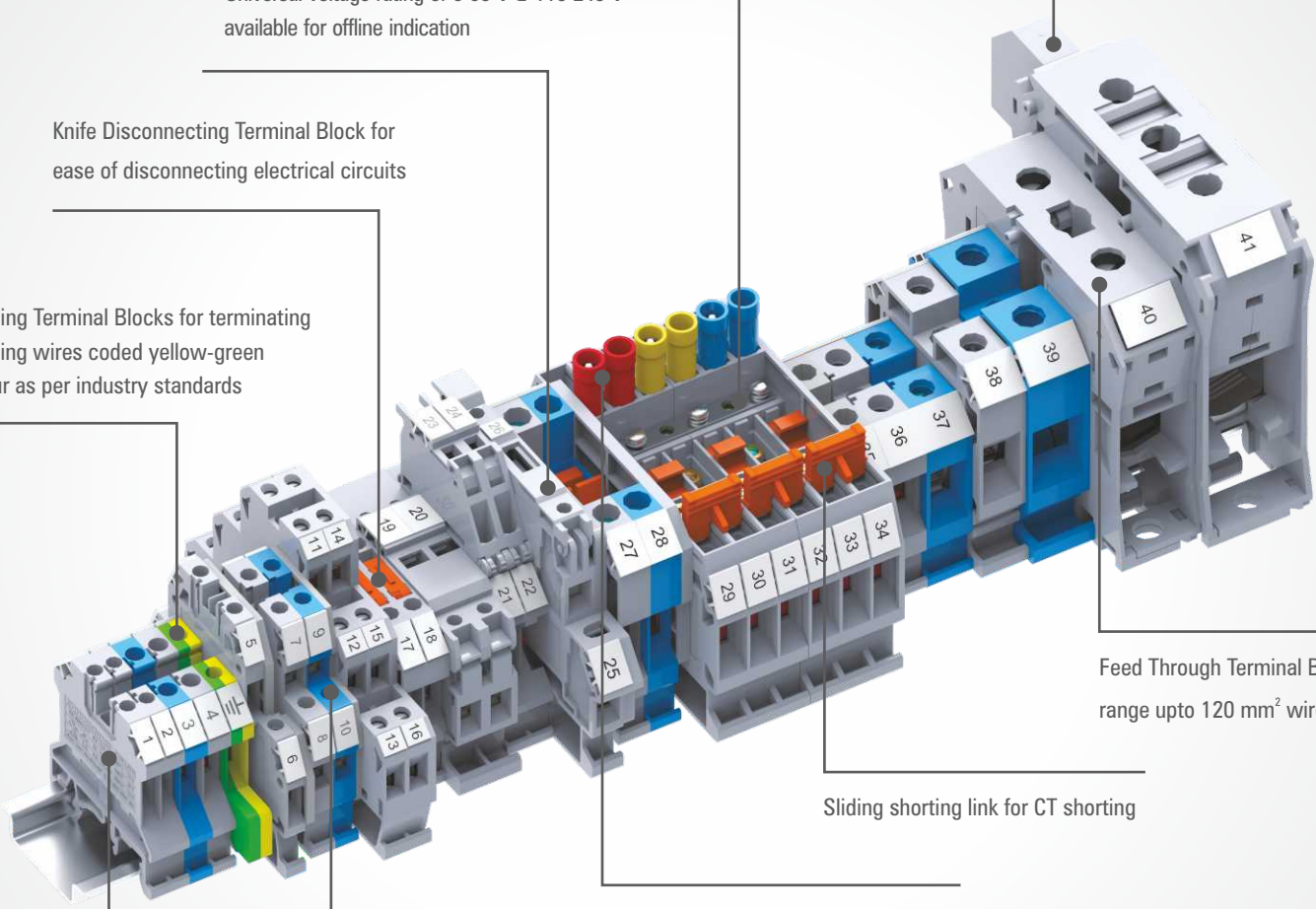
Feed Through Terminal Block range upto 120 mm<sup>2</sup> wires

Sliding shorting link for CT shorting

TPSLS facilitate insertion of Test Probes

2 Level and 3 Level Terminal Block for high density wiring application

Feed Through Terminal Block for connecting wires as small as 0.2 mm<sup>2</sup>




Feed Through Terminal Blocks are the most versatile terminals for Control, Automation, Instrumentation and Power Distribution applications.

The terminals with ATEX & IECEx approval can be used in potentially explosive atmosphere.

2 & 3 level Terminal Blocks are ideal for use in applications requiring high density wiring & triple level Terminal Blocks are an ideal choice for control systems where sensor and actuator applications are involved.

The different types of variants such as Disconnect Terminal blocks, Fuse Terminal Blocks, Din15 mountable and panel mount Terminal Blocks are available for various applications.

CHV series is specially designed for extremely high voltage (1500VDC) applications.

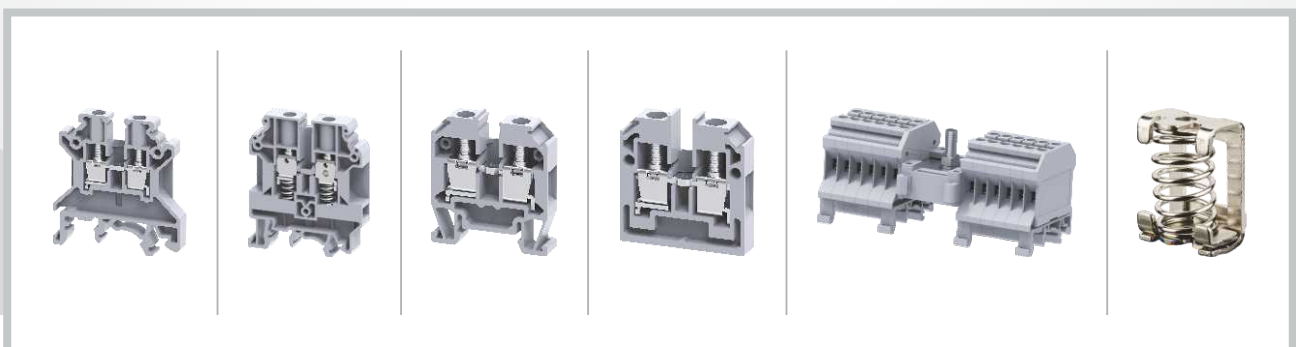
Technical Details :	
Wire Size	0.2 - 120 mm <sup>2</sup> / 22 - 250 KCMIL
Voltage	1000 V
Current	Upto 269 A
Torque	0.4 - 6 Nm / 4.5 - 90 lb.In
Standards	IEC60947, UL1059, CSA22.2-158, IEC 60079-7
Approvals	
Rated Impulse Voltage	4 - 8 KV

### Features:

- > Safe Wiring
- > Connection Reliability
- > High pull-out forces
- > Compact size
- > Flexible & Rigid conductor can be connected with or without ferrule

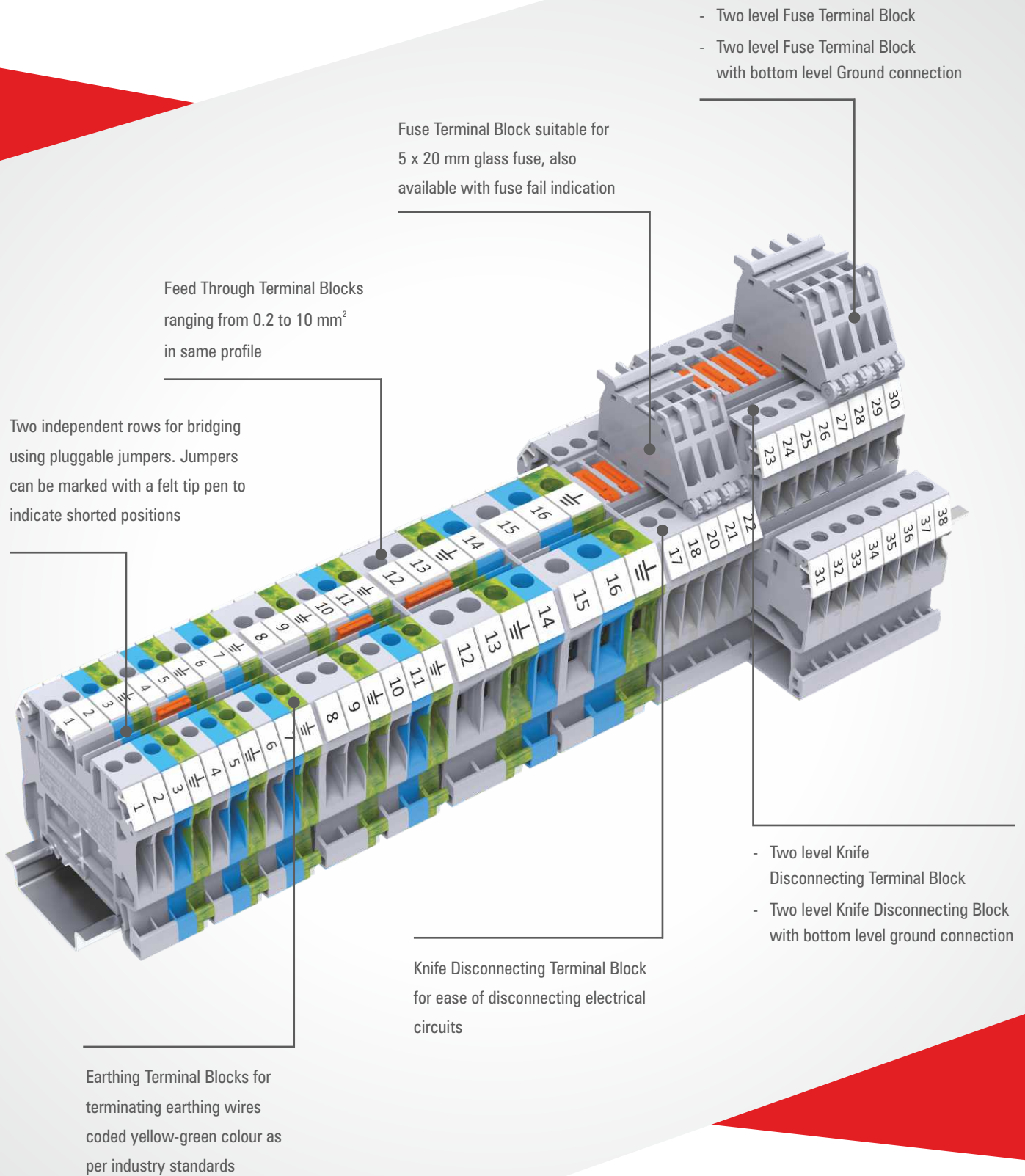
### Product Range:

Standard Feed Through | Multiple Connection | Multiple Level | Ground / Earth  
 Neutral / Earth Clamps | Shield Connection Clamps | Fuse Terminal | Distribution  
 Blocks | High Voltage | Spring Loaded | Micro & Panel Mount | Disconnect & Test



# High Performance CY Series

## Screw Clamp Terminal Blocks



- Two level Fuse Terminal Block
- Two level Fuse Terminal Block with bottom level Ground connection

Fuse Terminal Block suitable for 5 x 20 mm glass fuse, also available with fuse fail indication

Feed Through Terminal Blocks ranging from 0.2 to 10 mm<sup>2</sup> in same profile

Two independent rows for bridging using pluggable jumpers. Jumpers can be marked with a felt tip pen to indicate shorted positions

Knife Disconnecting Terminal Block for ease of disconnecting electrical circuits

Earthing Terminal Blocks for terminating earthing wires coded yellow-green colour as per industry standards

- Two level Knife Disconnecting Terminal Block
- Two level Knife Disconnecting Block with bottom level ground connection


A high torque clamping system on the screw clamp Terminal Blocks ensures safe, gas tight connections, while cold forged, rolled threaded screws ensure highly reliable connections.

Standard feed through terminals are of the same dimension with difference in thickness and a 3 position marking system.

The possibility of using 2 independent rows for bridging enables the creation of various circuit combinations such as Feed through Terminal Blocks can be simultaneously shorted in an alternating configuration with fuse & Disconnecting Terminal Blocks.

Universal voltage rating of 6 - 60 V & 110 - 240V is available on Fuse Terminal Blocks with offline indication. Both AC & DC circuits can be connected without any polarization requirement.

The knife disconnect terminal system enables isolation of circuits. A standard test plug can be used with these Terminal Blocks. Double level Terminal Blocks are an ideal choice for space saving applications.

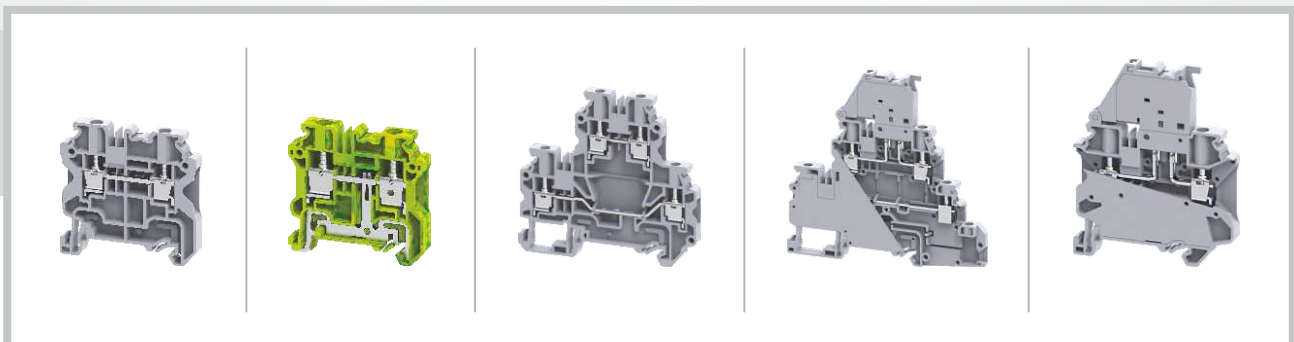
Technical Details :	
Wire Size	0.2 - 10 mm <sup>2</sup> / 24 - 6 AWG
Voltage	1000 V
Current	Upto 57 A
Torque	0.4 - 1.2 Nm / 4.5 - 14 lb.in
Standards	IEC60947, UL1059, CSA22.2-158
Approvals	
Rated Impulse Voltage	6 - 8 KV

### Features:

- > High pull-out forces
- > Compact size
- > Push-In jumpers

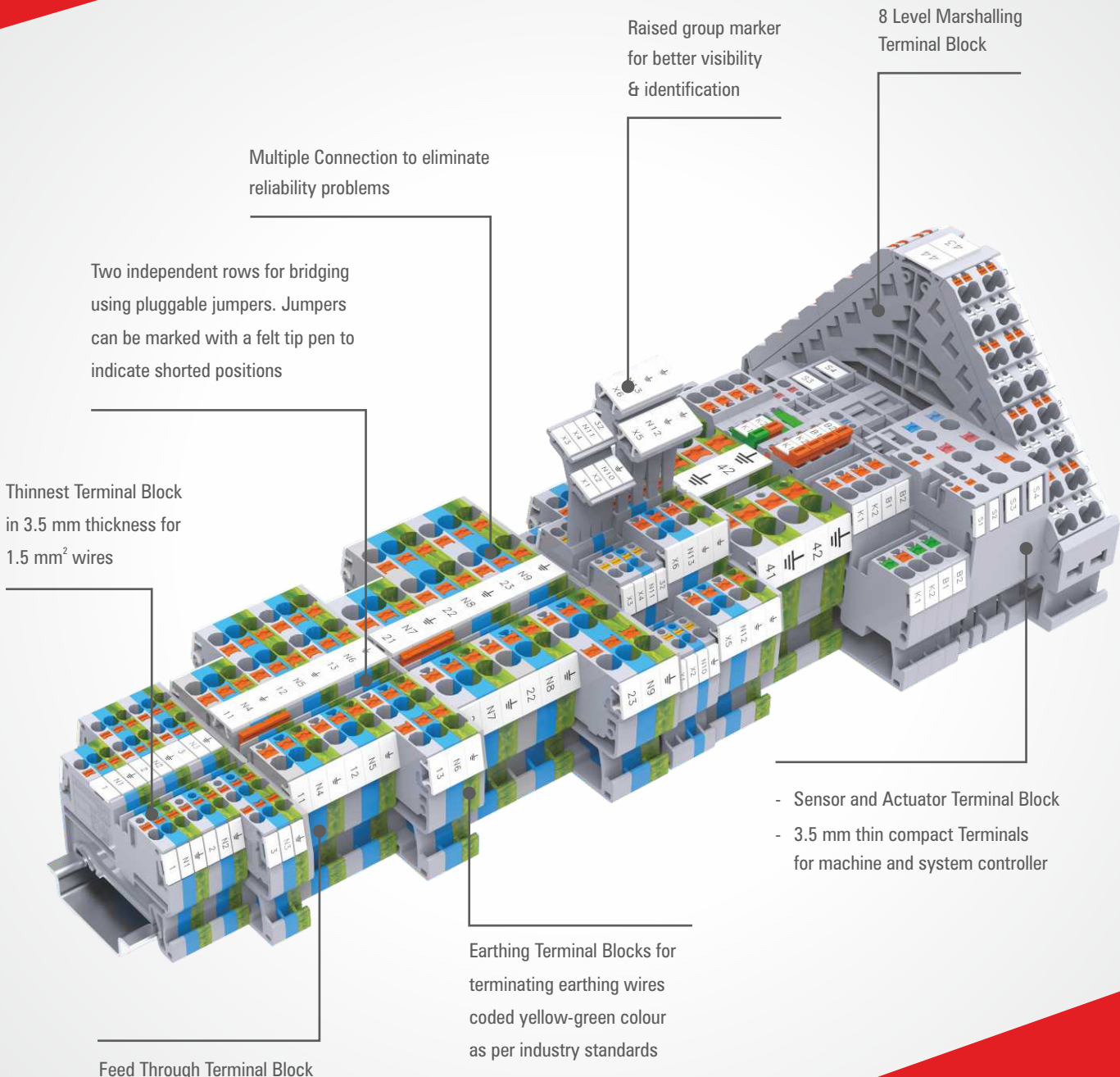
### Product Range:

- | Feed Through
- | Ground Earth
- | Multiple connections
- |
- | Multiple Level
- | Fuse Terminal
- | Disconnect & Test
- |





# CP Series PUSH-IN Terminal Blocks



Multiple Connection to eliminate reliability problems

Two independent rows for bridging using pluggable jumpers. Jumpers can be marked with a felt tip pen to indicate shorted positions

Thinnest Terminal Block in 3.5 mm thickness for 1.5 mm<sup>2</sup> wires

Raised group marker for better visibility & identification

8 Level Marshalling Terminal Block

- Sensor and Actuator Terminal Block
- 3.5 mm thin compact Terminals for machine and system controller

Earthing Terminal Blocks for terminating earthing wires coded yellow-green colour as per industry standards


Feed Through Terminal Block

CP series Push-In Terminal Blocks have a specialized connection system that enables tool less wire connections. Reliable, vibration resistant, gas tight connections are made with in built high quality stainless steel Push-In spring clamps.

Solid wires and wires with crimped lugs / ferrules are simply pushed into the connection point. No special tools or screwdrivers are required for making such connections. The connection spring is actuated with minimum insertion force.

Standardized pluggable jumpers for shorting Terminal Blocks are now available in various pole configurations.

The possibility of using 2 independent rows for jumpering enables the creation of various circuit combinations. Jumpers can be marked with a felt tip pen on the recess provided on top, to clearly indicate shorted positions.

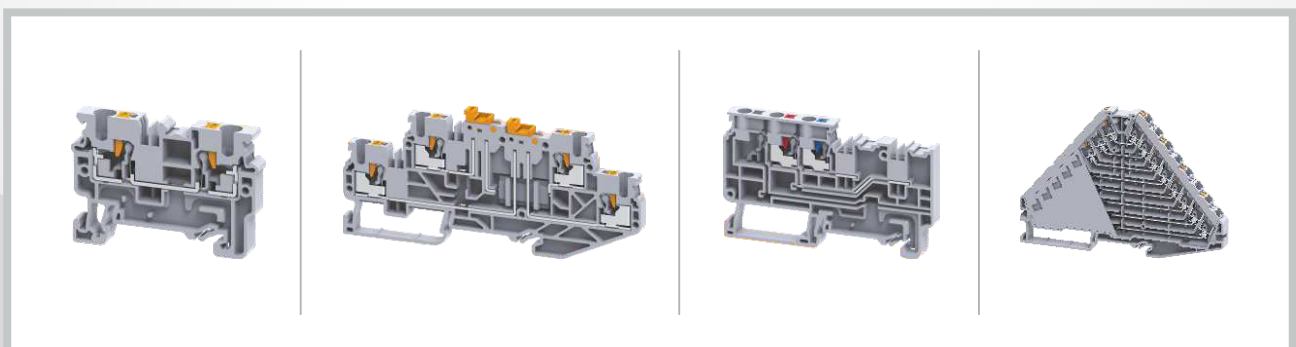
Technical Details :	
Wire Size	0.2 - 10 mm <sup>2</sup> / 24 - 8 AWG
Voltage	1000 V
Current	Upto 57 A
Standards	IEC60947, UL1059, CSA22.2-158
Approvals	
Rated Impulse Voltage	4 - 8 KV

### Features:

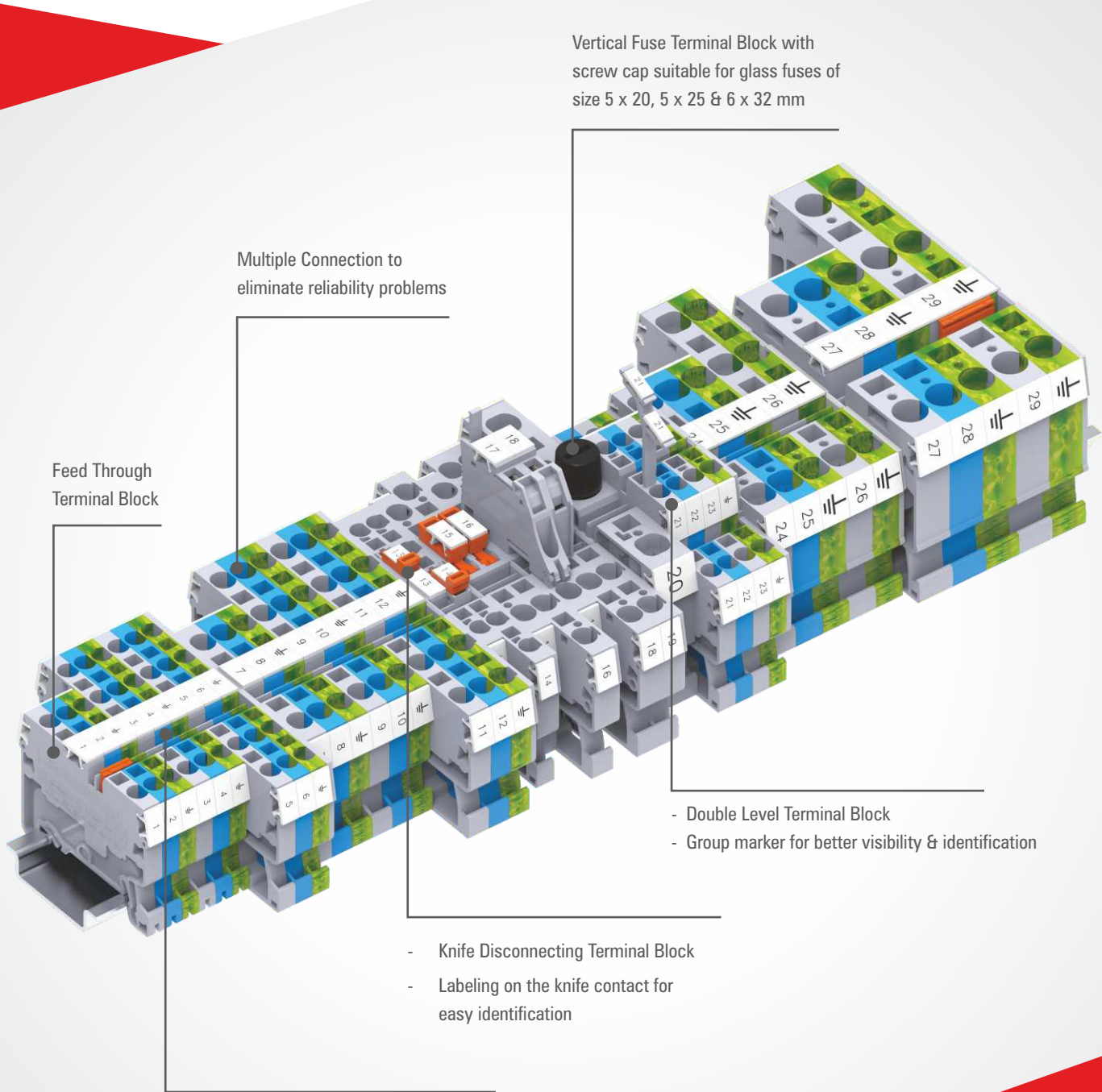
- > Tool Free Wiring
- > Save 75% of wiring time
- > High pull-out forces
- > Compact size
- > Push-In jumpers

### Product Range:

- |                |                      |                   |              |  |
|----------------|----------------------|-------------------|--------------|--|
| Feed Through   | Multiple connections | Ground Earth      | Double Level |  |
| Multiple Level | Distribution         | Sensor & Actuator | Marshalling  |  |



# CX Series Spring Clamp Terminal Blocks



Vertical Fuse Terminal Block with screw cap suitable for glass fuses of size 5 x 20, 5 x 25 & 6 x 32 mm

Multiple Connection to eliminate reliability problems

Feed Through Terminal Block

- Double Level Terminal Block
- Group marker for better visibility & identification


- Knife Disconnecting Terminal Block
- Labeling on the knife contact for easy identification

Two independent rows for bridging using pluggable jumpers. Jumpers can be marked with a felt tip pen to indicate shorted positions

CX series Terminal Blocks have an extremely compact design. These Terminal Blocks can be used in smaller control cabinets and enclosures. High quality stainless steel spring clamps provides a gas tight connection. A vibration proof, anti-loosening wire connection is achieved with this pre-stressed spring clamp system.

2 & 3 level Terminal Blocks are ideal for use in applications requiring high density wiring. Triple level Terminal Blocks are an ideal choice for control systems where sensor and actuator applications are involved. Jumpers can be marked with a felt tip pen on the recess provided on top, to clearly indicate shorted positions.

Different variants such as Disconnect Terminal blocks, Fuse Terminal Blocks, Din15 mountable and panel mount Terminal Blocks are available for varied industrial applications.

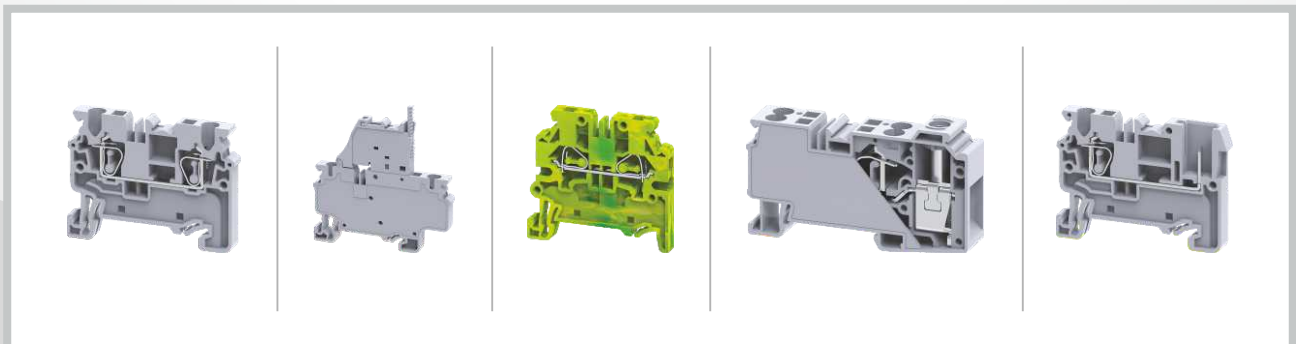
Technical Details :	
Wire Size	0.2 - 16 mm <sup>2</sup> / 24 - 4 AWG
Voltage	1000 V
Current	Upto 76 A
Standards	IEC60947, UL1059, CSA22.2-158, IEC 60079-7
Approvals	
Rated Impulse Voltage	4 - 8 KV

### Features:

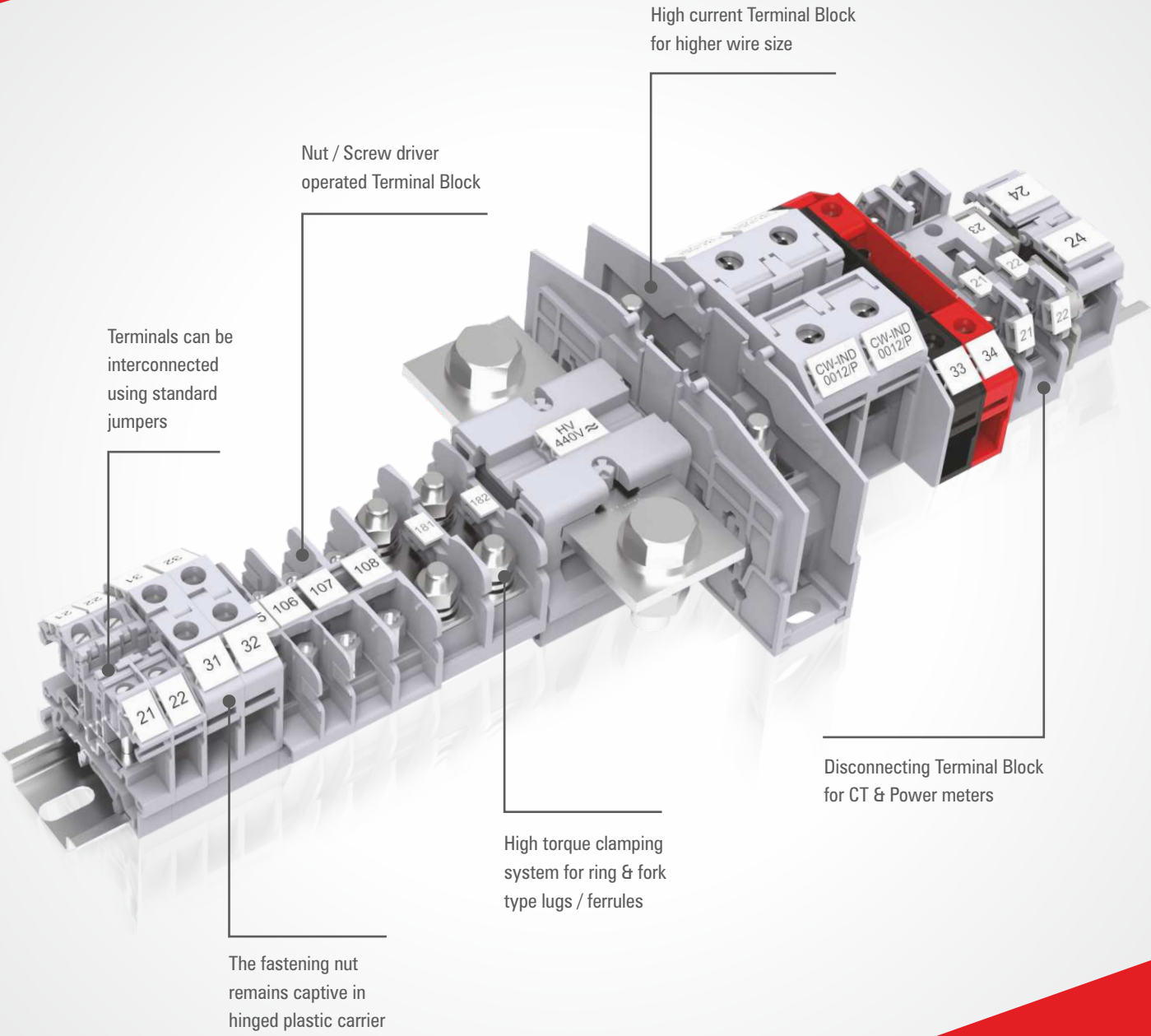
- > Save 40% of wiring time
- > High pull-out forces
- > Compact size
- > Push-In jumpers

### Product Range:

- Feed Through
- Multiple connections
- Ground Earth
- Double Level
- Multiple Level
- Side Entry
- Hybrid Distribution
- Pluggable Terminals




# STUD / BOLT TYPE Terminal Blocks



Stud Type Terminal Blocks are used in applications subject to severe vibration. Connection is made by crimping the wire on a ring / fork lug which is screwed on to the flat current bar.

The range includes conventional bolt type Terminal Blocks and IP20 shock protected terminal systems. These Terminal Blocks are operated by a regular screw driver or a standard nut driver. In some of the blocks the fastening nut is captive in its carrier and connection is made by lifting the carrier, inserting the wires crimped on lugs and the carrier is then snapped back into position. The nut is then fastened using a screwdriver to complete the connection. Internal and External shorting links / jumpers are available for connecting multiple Terminal Blocks. The disconnecting Terminal Blocks range are used for measuring, control and regulatory circuits. The Power Terminal Blocks are used for wires with large cross section. These Terminal Blocks have specially designed mounting feet that provide a tight grip when snapped on the DIN Rail.

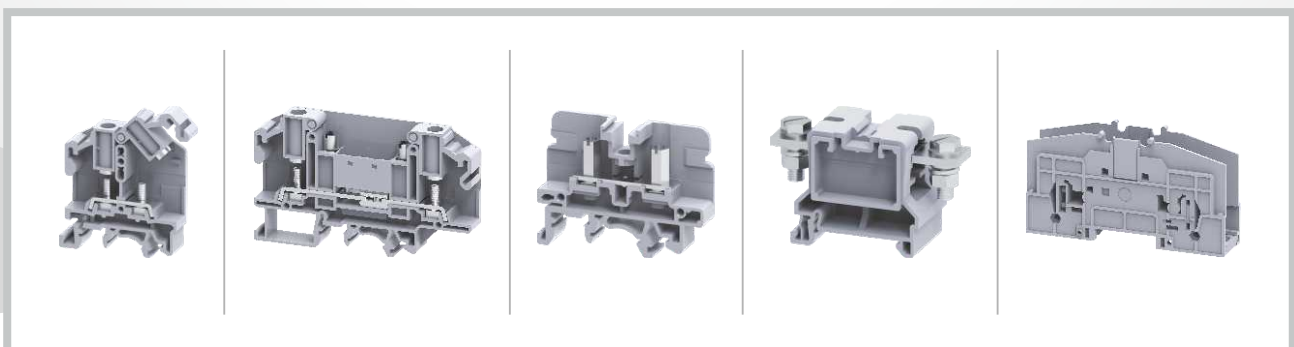
Technical Details :	
Wire Size	0.5 - 185 mm <sup>2</sup> / 22 - 350 KCMIL
Voltage	1000 V
Current	Upto 353 A
Torque	0.5 - 14 Nm / 4.5 - 127 lb.In
Standards following	IEC60947, UL 1059, CSA22.2-158, VDE
Approvals	
Rated Impulse Voltage	8 KV

### Features:

- > Safe and Reliable
- > Robust Connections
- > Ring / Fork Lugs
- > Vibration Proof

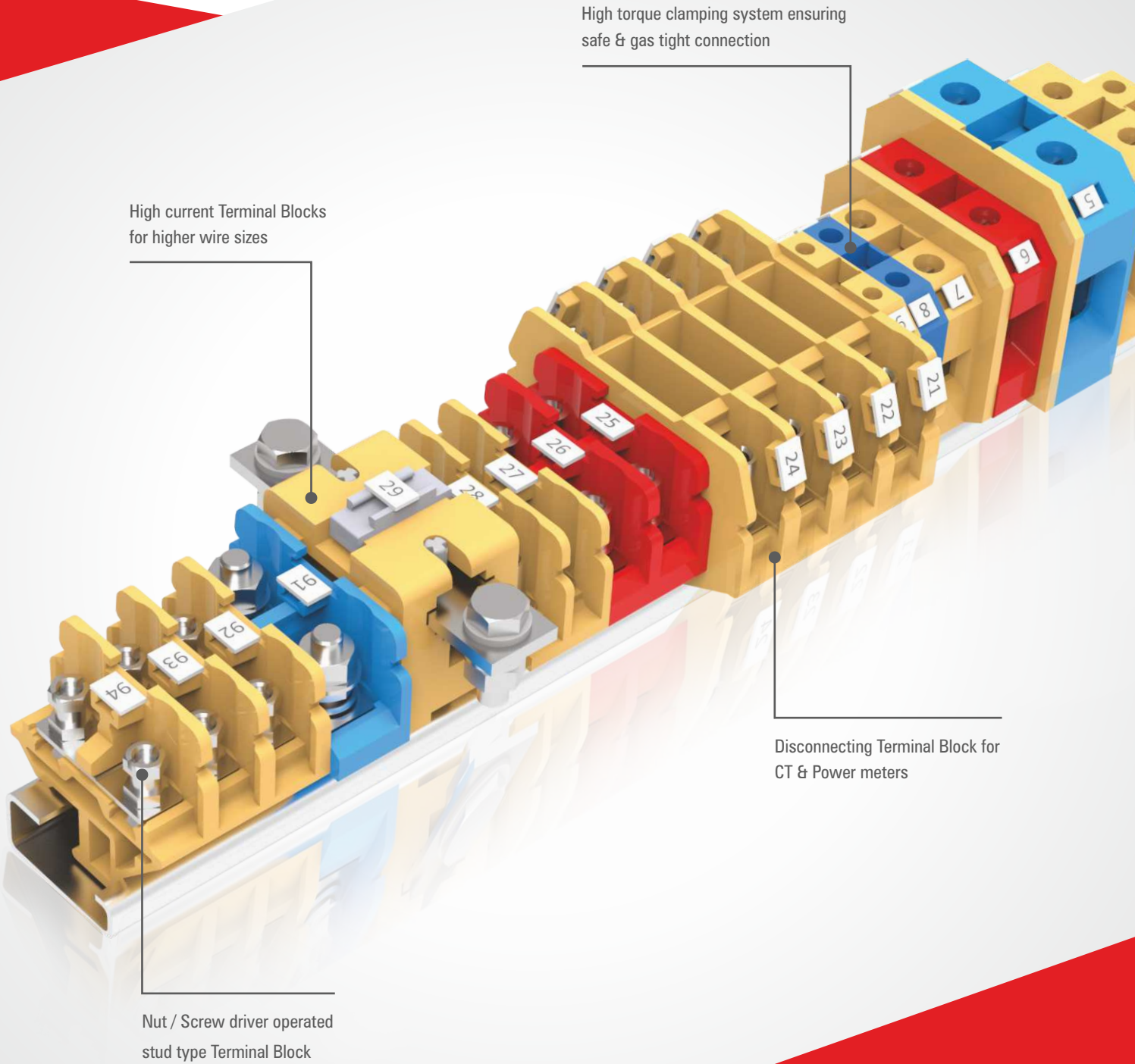
### Product Range:

- | Feed Through | Hinge Type | Captive Nut |
- | Disconnecting | Power Terminal | Bus Bar Type |



# MELAMINE

## Terminal Blocks



High torque clamping system ensuring safe & gas tight connection

High current Terminal Blocks for higher wire sizes

Disconnecting Terminal Block for CT & Power meters

Nut / Screw driver operated stud type Terminal Block

Melamine Terminal Blocks are suitable for applications involving high temperature. Connections can be made by simply stripping the wire of its insulation to the recommended length and clamping it without any additional preparation. In no instance does the clamping screw act directly on the wire and this effectively prevents damage to the wire.


Screw Clamp series with High torque clamping system ensuring safe and gas tight connections.

High torque clamping system for ring & fork type lugs / ferrules for areas prone to high vibrations.

Extremely reliable connections for Higher wire sizes with additional isolation plates are used to make these assemblies safe.

Disconnecting Terminal Block system is a versatile wire connection method for current transformer and power meters.

Strip type terminals are used for electric and electronic equipments.

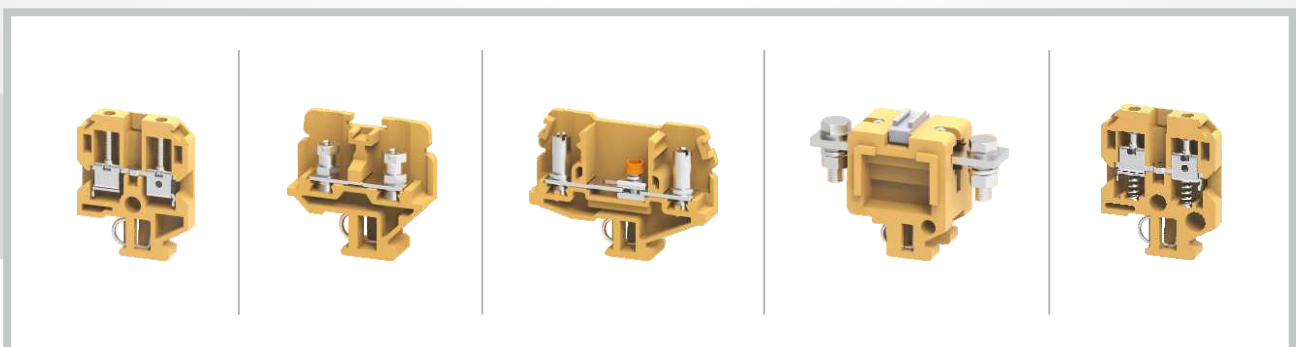
Technical Details :	
Wire Size	0.2 - 95 mm <sup>2</sup> / 22 - 4/0 AWG
Voltage	1000 V
Current	Upto 300 A
Torque	0.4 - 10 Nm / 7 - 87 lb.In
Standards following	IEC60947, CSA22.2-158
Approvals	
Rated Impulse Voltage	8 KV

### Features:

- > Safe Wiring
- > Connection Reliability
- > High pull-out forces
- > Flexible & Rigid conductor can be connected with or without ferrule

### Product Range:

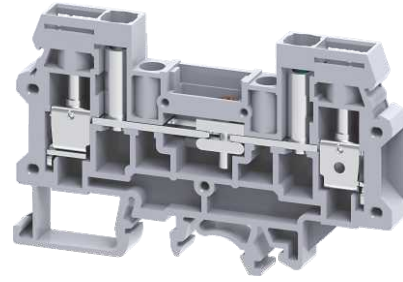
- | Feed Through | Stud Type | Disconnect & Test |
- | Bus Bar | Spring Loaded | Multipole Strip Connectors |





## DISCONNECT & TEST

### Screw Clamp Terminal Blocks for Current & Voltage Transformers



The CDS6U Disconnect & Test Terminal Block is used for measuring, control and regulatory circuits. They provide a clear functional advantage for devices having utility instruments and associated transformers.

Separate testing points facilitate insertion of test probes. Disconnection is achieved by means of a slide link operated with a Screw Driver.

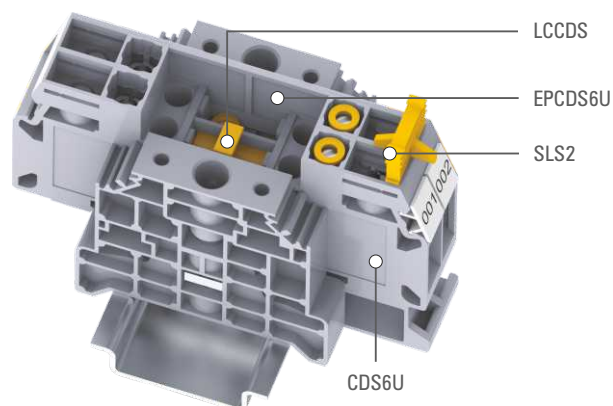
In the CDS6U/TS, the insulated test point screw system (TPSLS) is integrated. CDS6U/FT Terminal Block is a standard feed through Terminal Block.

In the CDS6U/SC Disconnect & Test Terminal Block, an additional safety spring is provided underneath the screw clamp. These Terminal Blocks are preferred for connections that involve safety requirements of the Electric Supply Industry (ESI) standards, British CEBG regulations and NTPC applications.

The SLS2 and SLS4 slide shorting link can be used in combination with either the supplied screw or the TPSLS Test point screw system.

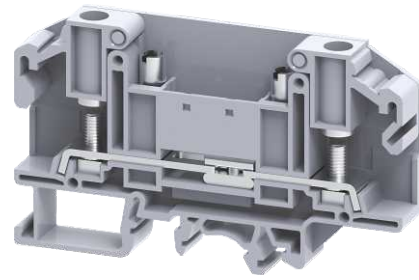
Lock out cap LCCDS can be used to lock the center shorting screw, to prevent accidental opening of circuits.

**Usage of CDS6U  
range of products in  
Simple Current  
Transformer  
Test Circuit**



# DISCONNECT & TEST

Stud / Bolt Type  
Terminal Blocks  
for Current &  
Voltage Transformers



STH4DT Disconnect & Test Terminal Block is used for measuring, control and regulatory circuits. They provide a clear functional advantage for devices having utility instruments and associated transformers.

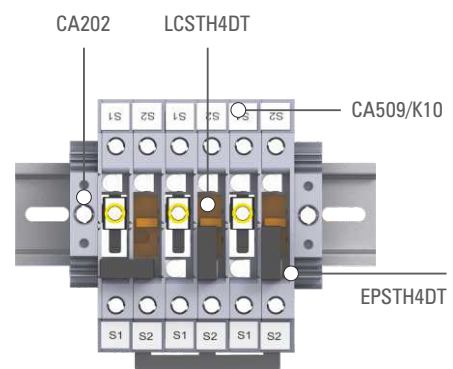
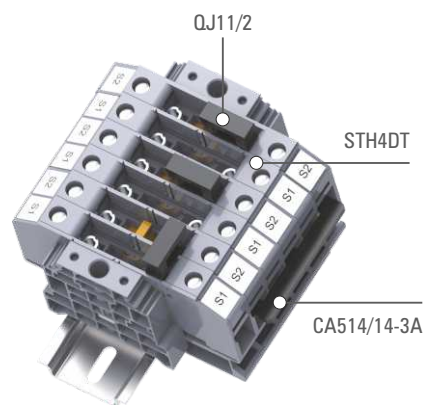
Separate testing points facilitate insertion of test probes. Disconnection is achieved by means of a slide link operated with a screw driver.

STH4DTSH Terminal Block has 2 STH4DT Terminal Blocks shorted to achieve switchable cross connection for current transformers (on one side).

STH4DTFT is a feed through terminal with the same profile of the STH4DT Terminal Block.

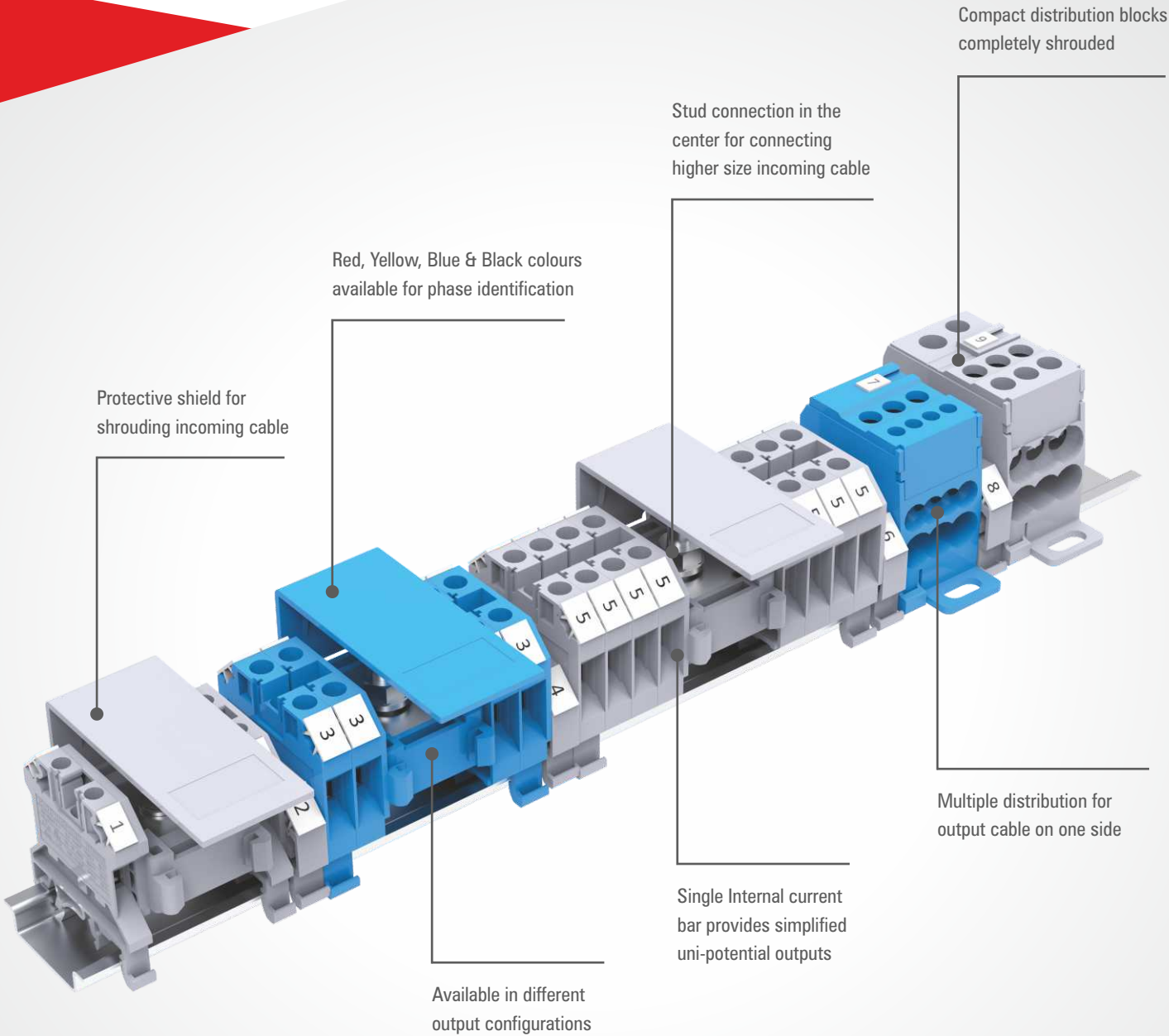
In all of the above Terminal Blocks, two Lugs can be connected to the Terminal, without sacrificing the safety of the Terminal Block.

**Usage of STH4DT  
Test Disconnect  
Terminal Block for  
metering CT for  
3 wire system**




# DISTRIBUTION

## Terminal Blocks



Distribution Blocks are an ideal choice for a simplified distribution systems. A bolt in the center of the block provides a connection point for the incoming cable. All the terminals are internally connected and provide multiple connection points for the outgoing wires. A protective shield effectively shrouds the incoming connection.

Compact Distribution Block is used for single phase distribution systems. These blocks can either be mounted on a Din Rail or can be panel mounted. These blocks are completely shrouded and offer IP 20 protection.

Technical Details :	
Wire Size	0.2 - 185 mm <sup>2</sup> / 22 - 350 KCMIL
Voltage	1000 V
Current	Upto 353 A
Torque	0.5 - 19 Nm / 7 - 227 lb.In
Standards	IEC60947, UL1059, CSA22.2-158
Approvals	
Rated Impulse Voltage	4 - 8 KV

### Features:

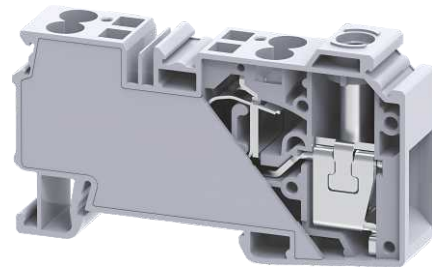
- > Ease of Distribution
- > High pull-out forces
- > Compact size Distribution Blocks
- > Shrouded Terminal Blocks
- > Offers IP 20 Protection

### Product Range:

| Distribution Blocks | Compact Distribution Blocks |



# COMPACT HYBRID DISTRIBUTION Terminal Blocks



CXDB35/10 is a compact Distribution Terminal Block. It is designed to suit standard Miniature Circuit Breaker (MCB) distribution boxes.

The terminal block is capable of accepting 35mm<sup>2</sup> cables at the input side and 4 wires of 10mm<sup>2</sup> can be connected at the output side.

The input cable is connected with a standard screw clamp system and the output wires can be connected with quick and reliable Spring clamp connections.

CXDB35/10 is a modular system and standard JX series jumpers can be used to add more connection points.

For distribution applications please note that the total system current should not exceed the allowed 125 A criteria.



Connection Possibility at Input as per		IEC	UL - CSA	Ratings at Input As Per			
				IEC60947-7-1	UL-1059	CSA22.2-158	
With 1 Conductor per clamp	Stranded / Flexible	1.5 - 35.0 mm <sup>2</sup>	14 - 2 AWG	Voltage	1000 V	600 V	600 V
	with Ferrule / Lug	1.5 - 35.0 mm <sup>2</sup>	14 - 2 AWG	Current	125 A	115 A	115 A
With 2 same size Conductors per clamp	Stranded / Flexible	1.5 - 10.0 mm <sup>2</sup>	12 - 4 AWG	Torque	2.5 Nm	25 lb-in	25 lb-in
	with TWIN Ferrule / Lug	1.5 - 10.0 mm <sup>2</sup>	12 - 8 AWG				
Connection Possibility at Output as per		IEC	UL - CSA	Ratings at Output As Per			
				IEC60947-7-1	UL-1059	CSA22.2-158	
With 1 Conductor per clamp	Stranded / Flexible	0.2 - 10.0 mm <sup>2</sup>	24 - 8 AWG	Voltage	1000 V	600 V	600 V
	Solid			Current	41 A	41 A	41 A
With 2 same size Conductors per clamp	with Ferrule / Lug	0.2 - 10.0 mm <sup>2</sup>	24 - 8 AWG				
	with TWIN Ferrule / Lug	0.2 - 4.0 mm <sup>2</sup>	24 - 12 AWG				

# CERTIFICATIONS & APPROVALS

**connectwell**

is an ISO 9001:2015 Company with products and systems approved by various credible third party organizations



Cert. No.: 44 100 990789/01-E3  
TUV NORD



VDE Testing & Certification Institute



Underwriters Laboratories Inc



Canadian Standards Association



ATEX - IECEX



(IECEE) CB Scheme



(IECEE) CE Scheme

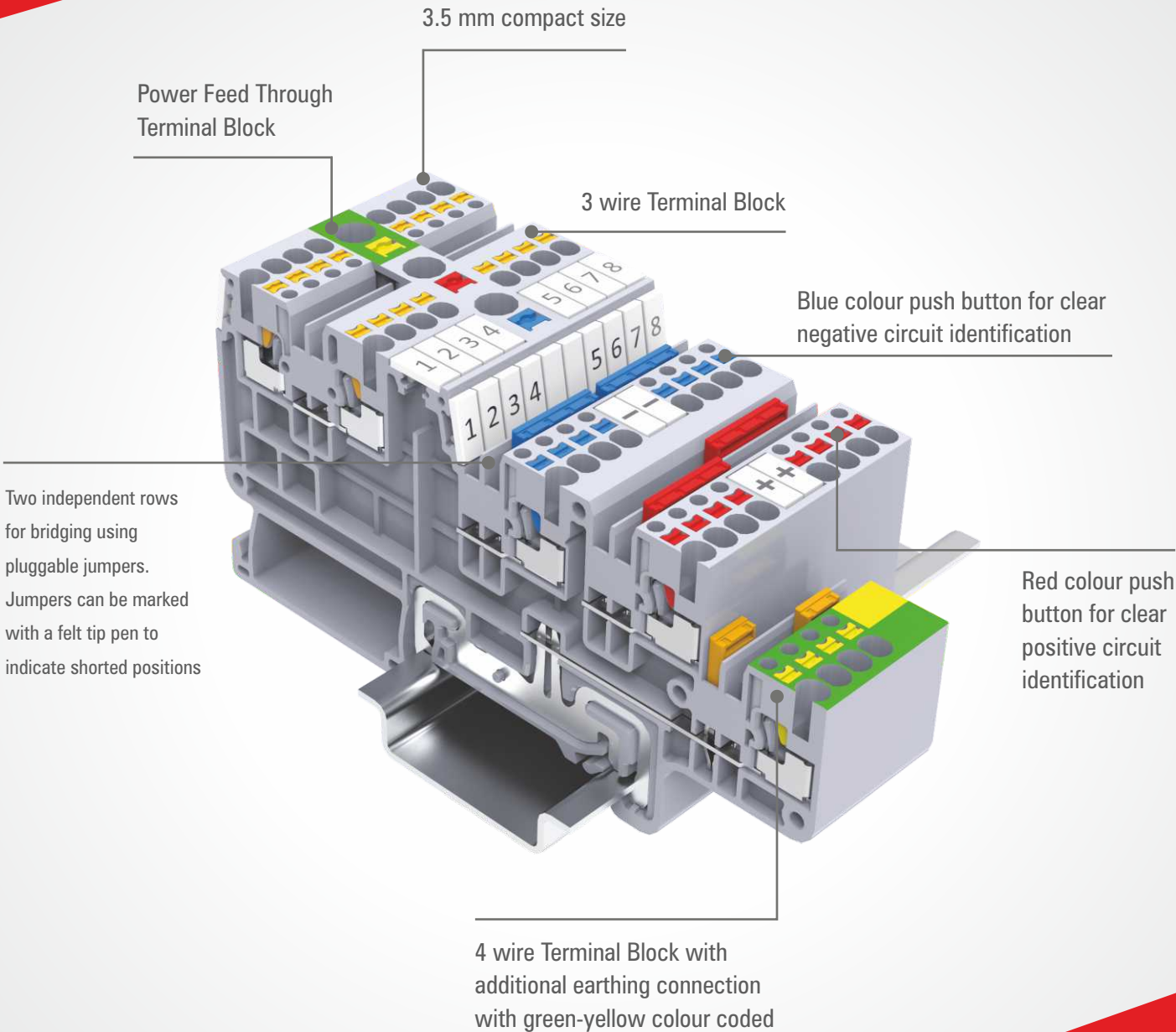


STQC Certification Services



# SENSOR & ACTUATOR

## Terminal Blocks



Sensors and actuator Terminal Blocks are ideal for wiring modern machine control systems. These Terminal Blocks are extremely compact with a terminal thickness of 3.5 mm.

CPST1.5/3 is a 3 wire sensor Terminal Block. These terminals can be bridged together with a power feed through terminal CPPT2.5/3 by using standard pluggable jumpers.

CPST1.5/4 is a 4 wire sensor Terminal Block which can be used in conjunction with CPPTG2.5/4 power feed through terminal.

In CPSTG1.5/4 an additional grounding point is available and is colour coded green yellow for clear identification.

CPPT2.5/3 is used to bring in the power connection for 3 wire sensor terminals CPST1.5/3.

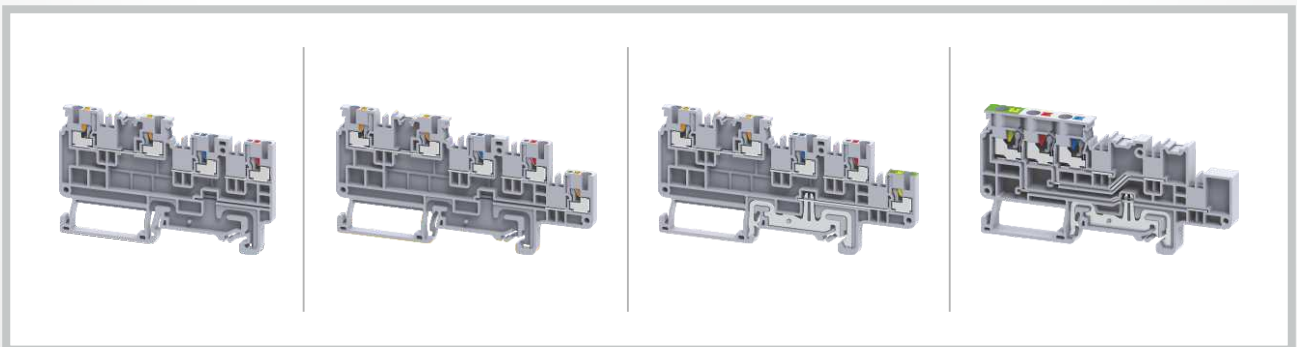
CPPTG2.5/4 is used for 4 wire sensor terminals CPST1.5/4 & CPSTG1.5/4.

Blue & Red colour jumpers are available for clear circuit identification.

Technical Details :	
Wire Size	0.2 - 2.5 mm <sup>2</sup> / 24 - 14 AWG
Voltage	300 V
Current	Upto 20 A
Standards	IEC60947, UL1059,
Approvals	CE
Rated Impulse Voltage	4 KV

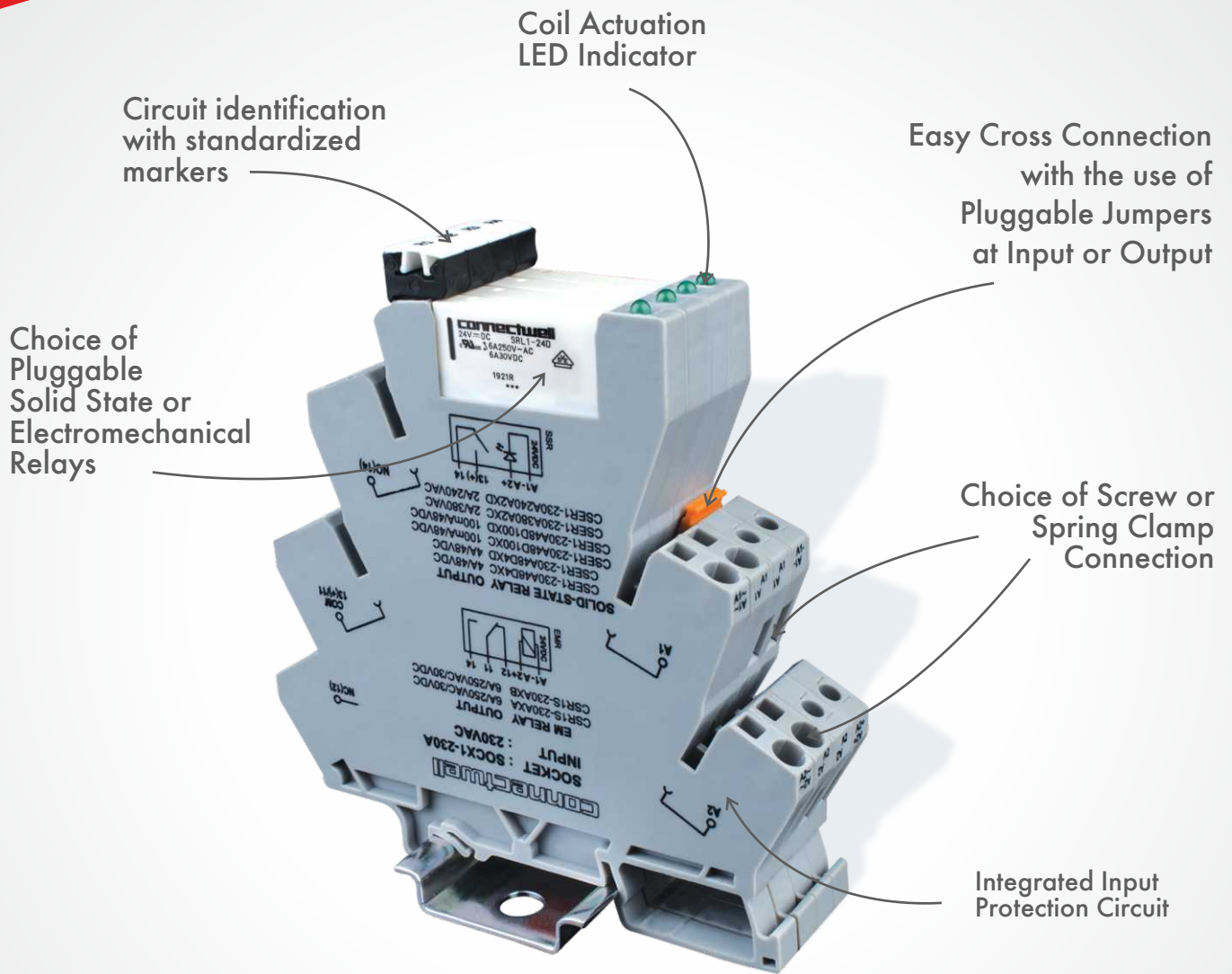
### Features:

- > Compact size in 3 mm thickness
- > High pull-out forces
- > Push-In Jumpers
- > Online indication with LED version





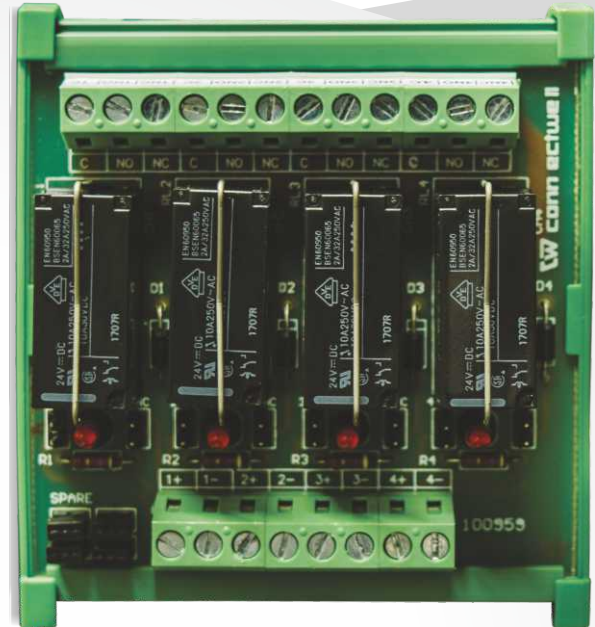
# SLIM RELAYS



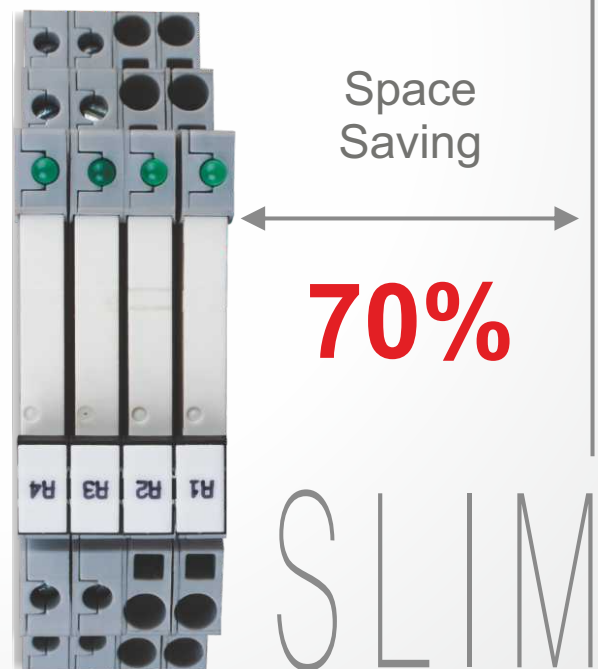
In today's high-tech world it has become inevitable that control panels will progressively reduce in size, forcing us to do a lot more in a lot less space. Connectwell brings you the right solution for such problems in the form of Slim Relays for switching and control applications. Conventional Relay Modules occupy about 20 mm per channel but with Slim Relays the same can be achieved in just 6 mm.

**Features:**

- > Compact with 6 mm form factor
- > Variety of operating voltages – 5,24,48-60, 110, 230 VAC/VDC
- > 6A@ 250VAC/ 30 VDC
- > Pluggable relays
- > Possibility of using Electromechanical Relays as well Solid state Relays
- > Low coil drive current
- > Possibility of shorting adjacent relays with pluggable jumpers
- > Screw connection and spring clamp connection possibility
- > International approvals on relay socket and relay



Technical Details :	
Type	Electromechanical Relay / Solid State Relays
No of changeovers	1
Coil Voltages	5VDC, 12VAC/VDC, 24VAC/VDC, 48VAC/VDC, 110VAC/VDC, 230VAC/VDC
Contact Ratings	6A@250VAC/30VDC
Positive / Negative bussing Possibility	By using JX series jumpers
Relay Protection	by freewheeling diode, polarity protection, RC Protection
Housing material	PA66
Connection possibility	Screwed connection / Spring clamp connection
Insulation Test voltage	4KV AC (50Hz, 1 Min)
Relay Approvals	

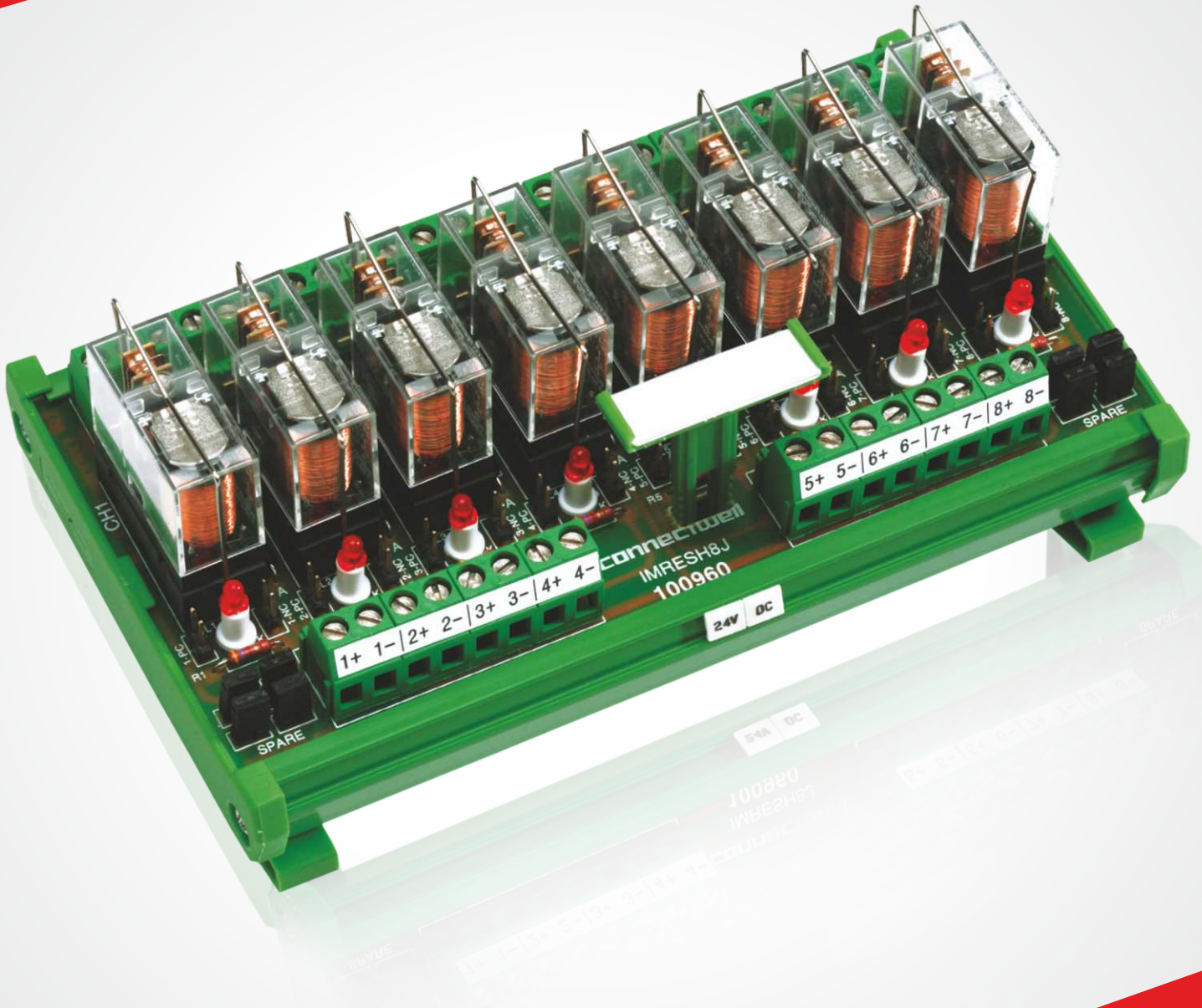


**Product Range:**

- | Slim Relay | Slim SSR |

# INTERFACE MODULES

## Standard Relay Modules



Connectwell Interface modules offer compact and easy to implement solutions to interconnect sensors, actuators, controlling / monitoring systems together. Connectwell DIN Rail & Panel mounting relay modules are an excellent solution for transmission of electric signals between PLC / DCS system and field actuator / sensor.

These modules provides electrical isolation between control and load circuits with the help of electro mechanical relays. These relay cards comes with Variety of Operating Voltages & easy to replace pluggable relays with relay base. There is a possibility of Bussing (Jumpering) relay input in common negative or common positive configurations & LED Indication to denote relay actuation. Standard mechanical relay module variants are also available with fuse protection at input and output.

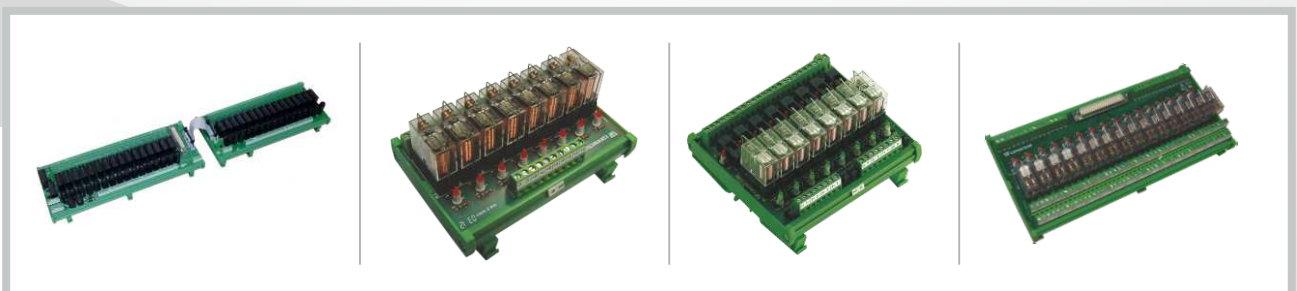
Technical Details :	
No of channels	1,2,4,8,16
Available Coil Voltages	12VDC, 24VAC/VDC, 110VAC/VDC, 230VAC/VDC
Number of Changeovers	1,2,4
Contact Ratings	10A @230VAC/30VDC (1CO), 5A @230VAC/30VDC (2CO), 3A @230VAC/30VDC (4CO)
Connections	Screw / Spring connections
Common Positive / Common Negative	Jumpering possibility
Protection	Freewheeling diode / Fuse protection

### Features:

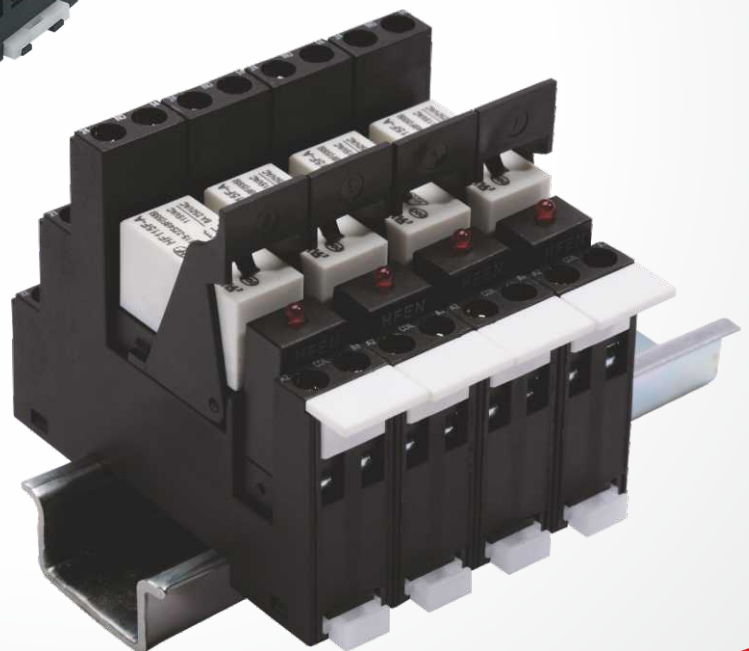
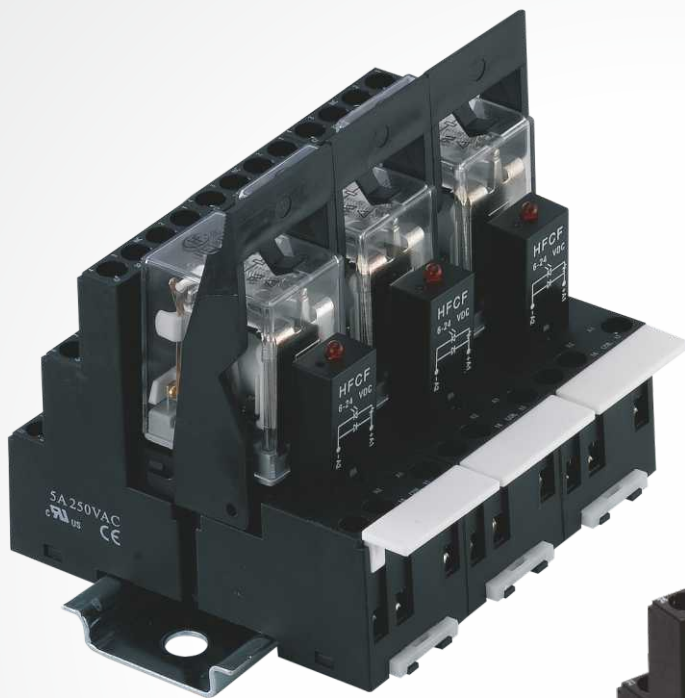
- > Number of channels / Relays as per requirement
- > Save 40% of wiring time
- > Variety of coil voltages: 12, 24, 110 230 VAC/VDC
- > Freewheeling diode protection
- > LED Indication on coil actuation
- > Fuse protection available
- > Screw & Spring clamp connection
- > V0 Grade mounting accessories
- > Common negative and common positive jumpering possibility

### Product Range:

| Standard Relay Modules | DI/DO Modules for DCS Applications | Relay Modules with Fuse | Relay modules with DSUB | Common Negative Relay Modules |



# MODULAR RELAYS



Connectwell DIN rail mountable pluggable relay sockets are an ideal solution for switching and protection applications. The relay socket have standardize screw connections and are available in 1, 2, 4 changeover configurations. An additional freewheeling diode module is available and can be plugged in the relay base.

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Technical Details :	
Type	Electro mechanical Relay
Protection	Freewheeling diode protection
Coil Voltages	24VAC, 24VDC, 110VAC, 230VAC
Changeover	1,2,4
Contact Ratings	12A(1CO), 8A (2CO), 5A (4CO) @ 250VAC/30VDC
Connections	Screw Connection

### Features:

- > High switching current
- > Compact design
- > Variety of operating voltages
- > Freewheeling diode protection for relay coil
- > Easy to replace pluggable relays
- > Available with 1CO, 2CO & 4CO as a standard
- > LED indication to denote the coil actuation
- > Base and Relays can be ordered separately
- > High Mechanical and electrical endurance

---

### Product Range:

| 1 CO Modular Relay | 2 CO Modular Relay | 4 CO Modular Relay |

# SWITCH-MODE

## Power Supplies



### GENERAL FEATURES

- Very High Power Efficiency
- Possibility Of Connecting Power Supplies In Parallel\*
- In Built Power Factor Correction Circuit\*
- Cooling By Convection: No Fans Reduce The Chance Of Failure\*
- Fully Encased Ip 20 Plastic / Metal Body
- 2 Years Warranty

### INPUT FEATURES

- Extremely Accurate Line Regulation
- Full Range Input Selection from 85 to 264 VAC or Automatic Input Selection between 115 VAC / 230 VAC
- Input Fuse Protection
- Input Over Voltage Protection
- Internal Input Filter to disallow harmonics and EM interference to pass to the supply line

### OUTPUT FEATURES

- Very Accurate Load Regulation
- Output Short Circuit Protection
- High Output Voltage Accuracy
- Possibility of Trimming Output Voltage
- Output Ready Signal\*
- DC ON Signal
- DC LOW Signal

\* These features are available in select models

## Standard Single Phase Switching Power Supplies

Connectwell's range of DIN Rail Mounting, Single Phase Switching Power Supplies is available in a wide variety of power ratings, ranging from 5 W to 480 W.

Housed in aesthetically appealing IP 20 protection class plastic or metal casings, these Power Supplies are designed for very high efficiency along with various forms of input & output protection.

Their high output accuracy along with superior load and line regulation make them an ideal choice for varying industrial applications.



## Two Phase & Three Phase Switching Power Supplies

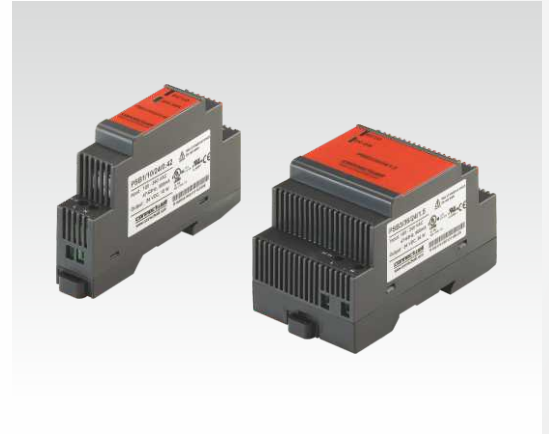
Two & Three phase switching power supplies are available in wide variety of power ratings from 120 W to 960 W. Features like full input voltage range from 340 to 575 VAC, superior load and line regulation, output ready signal, trimable output voltage etc. make these power supplies an ideal choice for two & three phase applications.



## DIN Profile Single Phase Switching Power Supplies

Connectwell's range of DIN profile Single Phase Switching Power Supplies is used in applications where the height available for mounting of Power Supplies is very less.

These Power Supplies are available in a Step Type modular design with form factor similar to that of MCBs making them suitable for mounting in electrical and lighting distribution boards which are commonly seen in building automation applications.

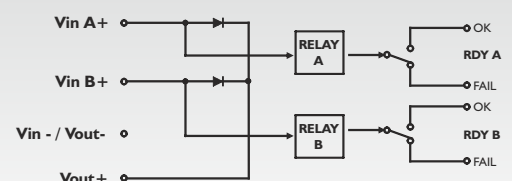


## Power Supply Redundancy Module (Diode O Ring Module)

These redundancy modules are required to connect two or more Power Supplies to the application load so as to safe guard it against failure of a single Power Supply.

At any given point only one of the Power Supplies connected to these modules is further connected to the load. Only on failure of one of the Power Supplies does the other Power Supply come into action.

These redundancy modules have advanced features like IP 20 class fully shrouded housing and current ratings as high as 20 A.



Circuit Diagram



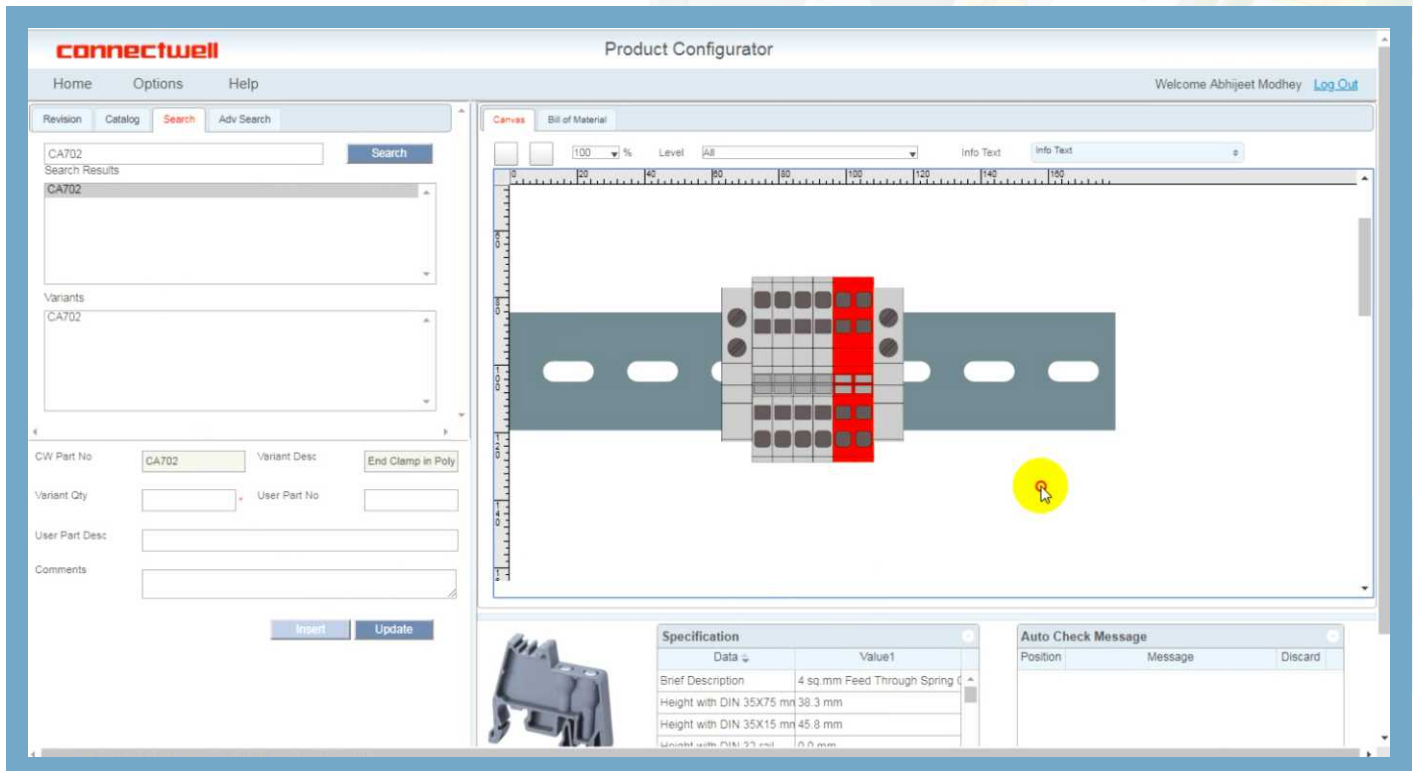
# VIRTUAL **config**

DESIGN

DOCUMENT

MANUFACTURE

DELIVER



- > Free online tool for Terminal Block configuration
- > Easy to use software, menu driven, no CAD licencing required
- > 2D & 3D output drawing generation
- > Complete BOM documentation
- > Short manufacturing lead time
- > Standardized packaging for configured rail assemblies

<http://www.connectwell.com/Global/product-configurator.aspx>



# CONNECTWELL

is available on **ePLAN** Data Portal

Get started on the path to improving the engineering design times, costs and quality for Electrical, Instrumentation & Control Systems

Quick Start

Flexible Layout

Safe Planning

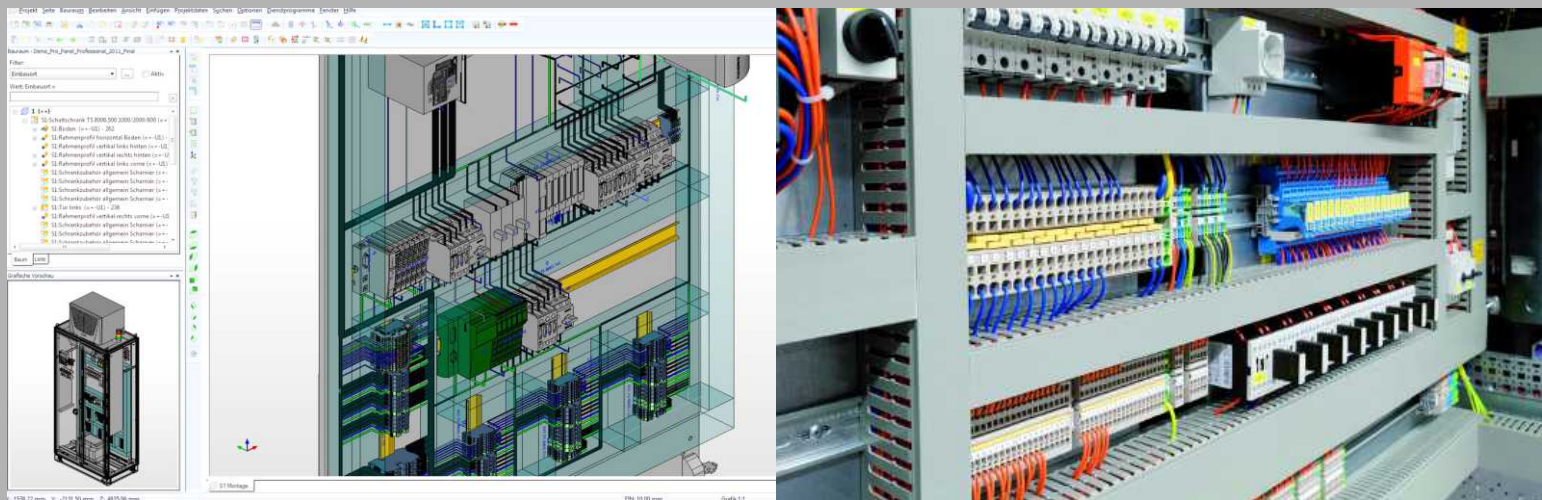
Consistency for Lively Exchange



Directly into (NC) production

Wiring made easy

Top Class Workflow



## What is ePLAN Data Portal ?

ePLAN software & services is one of the world leading service providers for developing CAx configuration and Mechatronics solutions.

ePLAN offers electrical engineering design software that provides innovative options for the planning, documentation and management of electrical design projects with nearly 7,80,000 device data from more than 200 manufacturers integrated within the ePLAN data portal.

# INTRODUCTION

Established in 1978, Connectwell is the leading manufacturer of Terminal Blocks in India. This superior range of Terminal Blocks is complimented by a large range of Interface Modules, Surge Protection Devices and SMPS (Switched-Mode Power Supplies).

Connectwell over the years has undergone constant evolution of infrastructure, systems and personnel. This evolution is exemplified by its high quality products and a team of professionals which is always looking ahead of everyday challenges, willing to change adapt and create.

Reputed product approvals and certifications like UL, CSA, VDE, ATEX and CE and quality systems which adhere to ISO 9001:2015 verify the quality level that can be expected of Connectwell.

More than four decades of incessant dedication and commitment have made Connectwell a synonym for

... THE RIGHT CONNECTION



# PRODUCT LINES

Terminal Blocks

Interface Modules

SMPS (Switch-Mode Power Supplies)



# VISION

Connectwell is committed to provide safe, reliable and efficient control & connection solutions in line with ever changing technology requirements. We shall...

Empower domestic and global customers with products of the highest quality standards, with a competitive edge and at superior service levels.

Create a work culture that encourages individual growth, team spirit and creativity; helping us overcome challenges and attain goals.

Deploy fair & ethical business practices for the growth of our vendors and maximize returns to our stakeholders.

Contribute towards the welfare of our community and follow environment friendly practices.

# MISSION

Connectwell is dedicated to achieve customer satisfaction by, supplying the Right Product, at the Right Time and at the Right Cost.

# QUALITY & SYSTEMS

At Connectwell we endeavour to keep evolving our systems in line with the latest standards and technology.

In addition to being an ISO 9001:2015 certified organization, all our business processes are mapped into various internal and customer facing IT systems, ranging from a world class ERP, CRM & PLM systems to extremely user friendly customer portal, product configurators and product website.

Our quality control laboratory has been approved for 'Witness Test Data Program' by Underwriters Laboratories (UL). This ensures that the quality testing carried out by our laboratory is not only accurate but also acceptable to the most stringent third party product testing organizations.

Connectwell products carry third part approvals from the most trusted organizations in the world, including but not being limited to UL, CSA, VDE, ATEX and CE.



# INFRASTRUCTURE

From product conceptualization to realization, we are well equipped with the latest software and high precision machinery to meet the requirements of our customers.

Some of these strengths are listed below

**Injection and Compression Moulding:** Highly automated production floors with CNC moulding machines supported by high accuracy moulding auxiliaries ensures repeatable high quality production.

**Sheet Metal Processing** - Our strength in sheet metal processing lies in the ability to use high speed multi station and multi form presses to create complex metal components with a very high degree of accuracy. We also have the capability to carry out a number of post forming processes like tapping, welding etc.

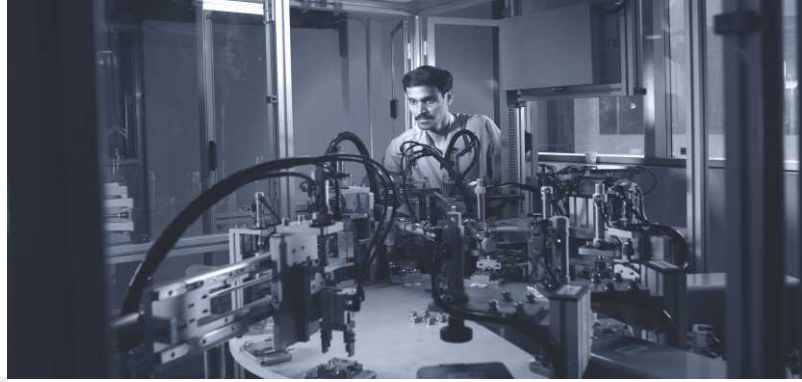
**Automatic Mechanical Assembly:** A very large volume of our products are assembled automatically on automatic assembly lines, which also carry out 100% functional testing of these products, assuring quality and reliability.

**Tool Development & Maintenance:** At our state of the art production tool room we produce both sheet metal tools and plastic processing moulds at extremely high accuracy levels. In addition, a maintenance tool room supports production areas and ensures continuity of production.



**Product Design & Development:** Our team works on a Product Life cycle Management platform which enables easy use of various mechanical and electrical design and simulation tools in addition to being able to efficiently manage projects and engineering data.

This ensures that we are able to produce high quality products and tools in shorter time frames, allowing us to better service our customer's needs.



# PRESENCE

Our customers range from the largest to the smallest entities in the below industries

- | Power Generation, Transmission & Utilities |
- | Oil & Gas | Industrial & Process Automation |
- | HVAC | Elevators & Escalators |
- | Material handling | Railways & Metros |
- | Ship Building & Aviation |

# REACH

We serve our customers through an expansive dealer network spread across India & the globe and also through our direct offices.

In India, we have more than 150 distributors located across all major towns & cities. In addition to our distributor network, our Sales & Marketing personnel located in all major cities of India interact with customers directly, to understand and meet their requirements.

Internationally, Connectwell is present directly in China, Brazil & Middle East through its subsidiaries and personnel. In addition we reach more than 60 other countries through distributors.

Some of the reputed names who we work with regularly are listed below

- | Siemens | Emerson | Indian Railways | Honeywell |
- | Crompton Greaves | Rockwell Automation | ABB |
- | Schneider Electric | Bharat Heavy Electrical Limited |
- | Larsen & Toubro |



## NOTES

**Note:** The product information is carefully compiled and is accurate for most of the application. New findings in materials and process technology necessitate modification of the products. We reserve the right to change / modify the product without intimation. However the changes that take place without notice in no way reduce function or performance of the product.

**CONNECTWELL INDUSTRIES PVT. LTD.**  
D-7, Phase 2, M.I.D.C., Dombivli - 421 204, India

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