hager

Smart Electrical Solutions

Solutions for **residential buildings ...**

Enclosures

As a specialist for residential and commercial installations, Hager provides wide range of enclosures, IP30 to IP65, flush or surface mounted, there is always a Hager solution to answer your needs.
(Ref. Page No. 6)

Protection devices

Hager offers a wide range of protection devices, such as MCBs, RCDs, RCCBs, SPDs, auxilaries & accessories etc. (Ref. Page No. 11)

Energy saving solutions

Time switches programmers, dimmers, motion and presence detectors are available to optimise energy consumption while increasing comfort.
(Ref. Page No. 21)

Home Automation

As a founding member of KNX protocol for home & building control, Hager offers state of the art solution for smart buildings. With world class home automation products from an industry expert, Berker (Germany), Hager moves into the unrivalled premium home segment. Berker by hager offers most comfortable, luxurious & safe solutions to make your living superlative.

... as well as commercial and industrial premises

Distribution boards

The Hager distribution board offer is composed of a wide choice of references. Secure and aesthetic, they have been developed as a solution for modern commercial distribution.
(Ref. Page No. 5)

MCCB as Main incomers

allow the connection, protection, breaking and switching in the low voltage distribution boards.
The range includes circuit breakers and main switches from 16 to 1600 A. The offer is complimented by earth leakage relays and torroids to build a main protection with adjustable setting for your installation.
(Ref. Page No. 8)

Modular Contactors

Hager range of modular contactors offer flexibilty to mount the devices in the standard distribution boards. Contactors being available in wide configurations offer ideal solution for Time switch, presence sensor & other similar applications.
(Ref. Page No. 14)

125 HLF RCD AOB & Earth Leakage Relays

Offers the flexibilty to have earth leakage protection with current ratings beyond 63A in VTPN DBs and Panels. Wide range of torroids allows the installation with ACB and MCCB having different conductor size cables. 125A rated HLF RCDs offer most convenient solution in modular design for VTPN enclosures with options of adjustable settings and High Immunity.
(Ref. Page No. 15)

Knowing why
Plus points for you

Good brand values are the backbone of quality workmanship. They motivate us to deliver our best for you on a daily basis. To familiarize yourself with some of these values and the additional benefits you can obtain from them, please read on.

Customer proximity

What does the most modern technology serve if it fails to fulfil our customers' requirements? So as to prevent such scenarios, we first contact you before we start developing new solutions. From thousands of discussions we hold with our business partners every year, we discover precisely what it is you need so as to be successful. From this acquired knowledge, we can then develop smart groundbreaking solutions that are market-oriented, related to today's needs and to you and your customers at a local level.

It is not only in product development that we consistently bank on customer proximity but also in the development of our relationships. In practice

- we associate with our customers in an informal manner
- we always make time to listen to your requests and suggestions and
- you can reach us whenever you need us.

Innovation

Today's most powerful driving force for commercial success consists of three letters – N E W ! If you want to enthuse your customers with new solutions, then Hager is precisely the right address! Innovation for us not only means finding the 'big idea' but includes a range of practical improvements such as ease in assembly, the most suitable applications, intuitive user interfaces and high modularity. No innovation is an end to itself, but serves to satisfy our customers more than ever. And so as to ensure that by using Hager products you will also be in the lead tomorrow, we continually work on developing our portfolio.

Trust

Trust in Hager has two solid foundations – trust in our people and trust in our systems and solutions. To ensure trust all along the line we

- live up to our promises
- give our customers advice which is to their advantage
- create products which are reliable, safe with built-in longevity

Hager worldwide

Local suppliers have restricted opportunities and budgets. By comparison local Hager suppliers benefit from global developments and international expertise including:

- 22 production sites in 11 countries
- 95 % own production and own development
- manufacturing 'excellence centre'
- 1,416 patents
- 790 engineers in Research & Development
- 5% of turnover is reinvested in R & D
- shared expertise throughout all markets
- ongoing improvement: 65% of all products are less than 3 years old.

novello+
distribution boards

novello+ range of distribution boards offer perfect blend of innovative features coupled with impressive aesthetics.

The plus

- Patented gland plate locking system with minimal screws
- Patented IP2X neutral terminals with flexibility to position it on the chassis
- Lab certified IP43 protection in double door versions. Achieved by dual neoprene gasket between door, frame & wall box
- Convenient 180 degree door opening
- Spirit level to ensure accurate & professional alignment of wall box
- Business card holder to retain electrician/ maintenance contact information for future use
- Double packaging for door protection until installation is complete
- Reusable cable management kit
- Site upgradable door handle with key lock facility
- Removable indication labels
- Reversible door
- Captive spring operated hinge
- Star washers for earthing
- Anti wall insertion marking

- As per IS 8623 - III
- SPN, TPN, PPI, Vertical, Phase Segregated, Plug & Socket, Enclosures etc.
- IP30 for Single door DBs
- IP43/54 for double door DBs
- Impact resistance IK09
- Color : RAL 9010, matt finish

golf enclosures
designed by you

golf range offers compact, sleek and light weight plastic enclosures for mounting of modular devices in residential & commercial applications. golf enclosures are made up of insulated engineering plastic material in RAL 9010 color to match contemporary interiors of modern buildings.

The plus

- Easy mounting-wall box can be turned 180° and has a removable cable entry slide
- More wiring space-between the modular devices and terminals as well as behind the DIN rails
- Quarter turn screws for fast installation
- Snap fit N-PE terminals with flexibility to mount on top or bottom
- Clean and convenient wiring - thanks to patented integrated cable management system
- Unbreakable door hinges with reversible door feature
- Same door for VS surface mounted version and VF flush mounted version
- Optimised conduit and trunking entries
- Choice of plain or transparent door to give premium aesthetics to your apartment
- 1-4 rows / 4-48 modules
- Ingress Protection (IP) - IP40 with door
- Insulation class - Class II (double insulation)
- Impact resistance - IK07
- Material - Flame retardant plastic
- Colour - RAL 9010, white

reddot design award

vector IP65
enclosures

vector range of weather proof enclosures answer the needs of electrical distribution in dust and moisture prone environment. Equipped with special door gasket, they maintain high ingress protection (IP65) level of enclosure to protect modular devices mounted inside.

The plus

- Neoprene rubber gasket to maintain high IP level
- Supplied with cable glands, N & E terminals (Optional key lock)
- Transparent door to see status of modular devices without opening door
- Special UV protected vector enclosure for outdoor applications like Photovoltaic, street light etc. (Refer Photovoltaic Section)
- Conforms to IEC 60695-2-1
- Mounting - Surface mounting
- No. of rows - 1, 2, 3 & 4 rows
- No. of ways - 3 module to 54 modules
- Enclosure Ingress protection level - IP65
- Insulation class - Class II (double insulation)
- Impact resistant level:
  IK07 for < 12 mod
  IK08 for > 12 mod

h3 MCCBs 16 to 1600A
feature loaded

The new h3 range of MCCBs provides safe and easy solution for low voltage electrical circuit protection. The state of the art circuit breakers offer both designers and installers wide range of features and benefits. Special attention has been given to ergonomics, especially with the integration of these devices in novello distribution boards.

The plus

- Calibrated at 50°C
- Single quarter turn screw to open secondary cover
- Visibility of auxiliaries connected
- Integrated pad locking facility
- Complete range of accessories
- Protected O/L setting with thermal adjustable upto 63%
- Breaking capacity: 18 to 70kA, Icu at 415VAC
- Snap fit accessories with Quick Connect terminals for fast installation
- Conforms to IEC 60947-2
- 6 frame sizes: x160, x250, h250, h630, h1000, h1600
- Breaking capacity (Icu): 18, 25, 40, 50, 65, 70 kA
- Thermal magnetic and electronic trip units
- 3 pole and 4 Poles
- Current limiting type (Cat A)
- Complete range of accessories
- International certification and approvals

Manual Changeover Switches
63 to 1600A

Allows manual switch, changeover switch or on load power circuit permutation

The plus

- Quick switching operation on silver contacts by spring sweeping action
- 3 position with padlocking at zero position for maintainance on direct & extended handle
- Compact dimension with back to back terminals
- Site mountable wide range of accessories based on application needs
- Complies with IEC 60947-3
- Rating: 63A - 1600A
- Suitable for AC23
- Lockable on position: O

Automatic Transfer Switches
125 to 1600A

ATS offers complete peace of mind during power failure with auto genset start along with safe and reliable changeover operation. Modular design controller enables flexibility to modify parameters along with display of information.

The plus

- Controller with LCD for parameter display for easy monitoring and flexibility to modify parameters
- Genset Start / Stop function enables convenient control of Genset during power failure
- RJ45 port allows easy communication with Remote Interface
- LED Indication of source availability with fault indicator
- 3 Position Motorised Operation with Auto / Manual control and Padlocking facility
- Over / Under voltage, Over / Under frequency Phase sequence protections and Time delay for switching
- Conforms IEC 60947-3
- Rating: 125A - 1600A
- Suitable for AC23A / AC23B
- Lockable on position: O

Miniature Circuit Breakers
Excellence in safety & performance

Comprehensive range offering reliable solution for protection of installations against over-current.

The plus

- Positive Contact Isolation ensuring complete protection to user
- Ergonomically designed toggle for comfort switching
- Insulated safety shutter for finger touch proof terminal
- Laser marking to ensure permanent information
- Front product labelling for displaying of load information
- Energy Limiting Class 3 to ensure low let through energy to limit thermal & mechanical stress on cables
- Direct mounting of wide range of accessories like OV, UV, ST, AX, AL, OV + LV release
- Conforms to IS / IEC 60898-1:2002, IEC 60898 - 1995
- Ratings – 0.5 to 63
- No. of poles – 1P, 2P, 3P & 4P
- Tripping characteristics – B, C & D curves
- Breaking capacity – 10kA (as per IS/IEC 60898)
- ISI Marking

Residual Current
Circuit Breakers (RCCBs)

Contemporary range with user friendly features to ensure earth leakage protection.

The plus

- Earth fault Indicator on front face for easy fault diagnosis
- Contact position indication on front face
- Front product label
- Bi-connect terminals for simultaneous termination of bus bar & wires
- Unique pull up terminals with safety shutters for enhanced safety of users
- IEC, CE & RoHS compliance
- Hi version for disturbed electrical networks having pulsated DC currents, harmonics and transient voltage
- Conforms to IS 12640-1:2008, IEC 61008-1:2012
- ISI marking
- Ratings - 16A, 25A, 40A, 63A, 100A
- No. of poles - 2P & 4P
- Sensitivity - 10mA, 30mA, 100mA & 300mA
- Trip class - class AC and class Hi
- Earth fault trip indicator on front face
- Protection against nuisance tripping caused by switching transients

Residual Circuit Breakers
with Overcurrent (RCBOs)

Make your homes and equipments safe from harmful accidental currents.

The plus

- Earth fault indication on RCD
- Additional protection using accessories like Over & low voltage release-MZ215 etc.
- IP2x terminals
- Contact position indicator on the MCB
- Wide range to cover variety of applications

- Conforms to IS 12640-2:2008 IEC 61009 -1:2012
- ISI marking
- Ratings - 6 to 63 A
- No. of poles - 2 pole and 4 pole
- Sensitivity - 30mA, 100mA & 300mA
- Tripping curve - C
- Trip Class - class AC
- Breaking capacity – 10kA

MCB, RCD
accessories

Wide range of accessories for device control and its status.

The plus

- Additional protection like over & low voltage possible with accesories
- Accessories compatible with complete range of MCBs and RCDs
- Protection accessories with trip indicators on front
- Potential free auxiliary and trip alarm contacts for BMS applications
- Locking kit for locking of the devices

Accessories :
- Auxiliary contact
- Trip alarm contact
- Shunt release
- Under voltage release
- Over voltage release-MZ209
- Over + Low voltage release-MZ215
- Locking kit

Earth
leakage relays & Torroids

Electrical solution for earth leakage protection in MCCB Distribution Boards and Panels.

The plus

- Test button for simulation of fault
- Inbuilt protection against nuisance tripping like class A device
- LED for power supply indication
- Choice of fixed or adjustable trip time
- Choice of fixed or adjustable sensitivity
- Positive security - relay trips in case of break in relay & CT link

- Conforms to
  IEC 60947-2 annexe B
  IEC 61008
  IEC 61543
- Supply voltage - 230VAC
- Sensitivity
  - Fixed - 30mA, 300mA
  - Adjustable – 30mA, 300mA, 500mA, 1A, 3A, 10A
- Trip time
  - Fixed - instantaneous
  - Adjustable - 0.1, 0.2, 0.3, 0.4, 0.5, 1, 3 sec
- Contact rating - 16A, AC-1, 1 changeover
- Max distance between relay & torroid - 20 meters
- Torroid dia - 35mm, 70mm, 105mm, 140mm, 210mm

Automatic Changeover
with Current Limiter (ACCL)

Convinent modular solution for controlling individual loads and automatic changeovers.

The plus

- Indicates the LED for Mains ON, Genset ON and Genset Overload.
- Different LED colors for clear differentiation between functions.
- Blinking LED for overload and permanent LED for overload Trip.
- Modular design
- Convenient and simple wiring terminal design.
- Auto reset if Main supply resumes on genset trip.
- RoHS compliant, CE Marking

- Standard: IEC 60947 - 3, IEC 60947 - 6
- Type: SPN Modular
- Voltage: 150VAC to 300VAC
- Mains Rating: 30A
- Genset Rating: 1.5 to 20A
- Utilization category: AC21A (IEC 60947-3), AC 31B (IEC 60947-6)
- Short Circuit Withstand: 3kA
- Electrical Endurance: 6000 Operations
- Terminal Size: Flexible: 10sqmm, Rigid: 16sqmm
- Terminals: IP 2X finger touch proof

Surge Protection
Devices

Protection device for equipments from harmful effects of lightning and switching surges.

The plus

- Up level < 800V, offers best surge protection to equipments on cascading
- Type 1 for direct lighting protection
- Type 2 for indirect lightning and switching surges
- Type 2 devices with end of life indicator as standard feature
- Availability of reserve indicator and auxiliary contact as option
- SPDs for telephone lines available with option of analogue or digital line
- Conforms to IEC 61643-11
- No of poles - 1P, 1P+N, 3P, 3P+N
- Discharge current, I max - 8, 15, 40, 50, 65, 100kA
- Discharge current waveform - 10/350 µs, 8/20 µs
- Voltage protection level - 4kV, 1.5 kV and 800V

The photovoltaic solution

Hager offers complete solution for protection and isolation of PV arrays. Range is equipped with special PV grade products offering both current and voltage protection. New vector enclosure is specially designed to suit the stringent outdoor conditions.

vector
outdoor enclosures

The outdoor vector range has been developed to endure harsh weather for a long period of time. The mechanical properties of the material make it possible to install them in outdoor locations. Designed to resist humidity, dust, chemical aggressions and ultraviolet radiation exposure.

- 1 to 4 rows from 2 to 54 modules
- Ease of installation : DIN rail adjustable in depth and accessories for installing enclosure in specific outdoor locations
- The material remains unchanged over the years and perfectly resistant to chemical attacks and ultra violet exposure
- Accessories to guarantee optimal IP65 protection grade
- Range of IP65 and IP66 ventilated cable glands
- RoHS and REACH compliance
- Dimensional stability till 130°C

Fuse carriers and
switch disconnectors

Photovoltaic fuse carriers and fuses ensure DC protection of photovoltaic strings against overload and short-circuits.

32A switch disconnectors are designed for photovoltaic applications upto 1000VDC. Contact making and break independent to operator speed.

- poles : 4P
- voltage rating : 1000VDC 21B
- current rating : 32A

Surge protection
for PV applications

Photovoltaic SPDs offer convenient solution for voltage protection of PV strings. SPDs are offered with life indicator on front +/- terminals are polarized which allows convenience for flexible wiring in enclosure. SPD has continuous operating voltage of 1000VDC

SVN
indicators

LED indicators for status indication in electrical networks.

The plus

- LED technology for maintainance free long life
- Low power consumption
- Superior asthetics
- Special 3 in 1 indicators and 2 in 1 indicators
- Modular LEDs offer value add in the DBs with RYB and ON-OFF-TRIP indication in compact one module size
- Conforms to IEC 60947-1 and IEC 62094-1
- LED technology
- Supply voltage - 230/415VAC
- Power consumption - 0.8 watts
- Burning hours - upto 100,000 hours

Time
switches

Time switches are used in residential, commercial and industrial premises to improve comfort and save energy by switching loads automatically as per real time.

The plus

- Hassel free automatic operation without manual intervention
- Reduced electricity consumption
- Increased life of electrical load
- Zero maintenance
- Wide range of products to choose from to suit different applications
- Mechanical, digital and digital astronomical variants
- Programming possibility through computer
- Backlit display for ease of programming in dark areas
- Range : Mechanical daily, weekly, digital daily, weekly, astronomical timer, yearly timer
- Easy programming using keypad on product or using programming software
- Programming of impulses helps in applications like school bells, watering of plants, defrosting refrigerator etc.
- Holiday mode helps keeping the loads OFF for a pre-defined duration
- Time switches can be programmed without power supply

Presence & Movement Detectors

Presence and movement detectors are used to switch on/off electrical loads e.g. lights / AC based on human movement and presence in an area.

The plus

- Reduces electricity consumption
- Increase in lamp or electrical device life
- No manual intervention for switching on/off loads
- Better life style and comfort
- Asthetics

- Range : Movement detectors, dual lens presence detector, presence sensor with light regulation, wall mounted outdoor movement detector
- Adjustible off time delay
- Adjustible lux setting for daylight override function
- Wider detection area
- Double lens double channel design for advanced application
- Remote controllibility
- Smart and sleek design
- Wide range of products to meet different applications
- Possibility of regulation of artificial lights with 1/10V, DALI or DSI channel

Light
Dimmers

Light dimmers are used to create the right lighting ambience for different activities. Hager light dimmers can control all standard light sources e.g. incandescent, halogen, flourescent etc.

The plus

- Create the prefect lighting scenarios
- Control light level as per user preference
- Range : 300 W, 500 W, 1000 W & 1-10 V pilot dimmer
- Recall user defined scenarios
- Master on/off and dim up/down button for faster and customised control
- Master slave configuration for handling more electrical load
- Adjustable dimming parameters e.g. dimming speed, start time, stop time etc.

Twilight
Switch

Twilight switch measures ambience light level and switches on artificial lights when natural light level falls below set light-on-level.

The plus

- Automatic switching of lights based on ambience light level
- No manual intervention for switching
- Reduced electricity consumption
- Increased lamp life
- Range : Modular twilight switch, surface mounted outdoor twilight switch
- Wide range of products
- User defined setting of lux level and switch on time
- IP 55 version for outdoor use

Latching
Relay

Latching relay is used to control a single load from multiple points. This can be very useful in staircase, long coridoors.

The plus

- Control of single load from multiple locations
- Possibility on adding as many control points as required
- Any kind of electrical load can be connected and controlled
- Rating - 16 A
- Available in 1 No, 2 No, 1 No + 1NC, 4 No, 2No + 2 NC - pole options
- Coil voltage 230VAC, 50Hz

Time Lag
Switch

Time Lag Switch automatically switches off lights after predefined on period, there by switching off lights when they are not required.

The plus

- Saves energy by switching off electrical loads automatically
- Lights can be switched on from multiple locations
- Manual override possible
- Pre warning before switch off
- Double delay mode
- 30sec - 10 min delay setting
- Rating -16A

Designed to save energy
for a greener world!

Save energy and save costs

Hager has complete range of building automation products like motion & presence detectors, dimmers, latching relays, time switch etc. This allows an automatic management of lighting in residential, commerical & industrial sectors.
It also helps reducing energy consumption and brings down manual intervention to manage electrical loads.

Now saving & caring comes in a quality package called E2LM.

www.hager.co.in/e2lm

NCN420N

MCBs

	MCBs	HLF MCBs	ML MCBs
Standard	IS / IEC 60898-1:2002	IEC 60947-II	IEC 60898
Ratings	0.5 to 63A	80, 100, 125A	6 - 40A
No of Poles	1P, 2P, 3P, 4P	1P, 2P, 3P, 4P	1P+N
Tripping Characteristics	B, C, D	C	C
Breaking Capacity	10kA	10kA	6kA
Accessories	OV, UV, ST, AX, AL	OV, UV, ST, AX, AL	OV, UV, ST, AX, AL
CE Marking	Yes	Yes	Yes
Suitability for DC Applications	Yes	Yes	-

CD440Y

RCDs

	RCCB	RCBO	RCBO 2P 2M
Standard	IS 12640-I:2008	IEC 12640-2:2008	IEC 61009
Ratings	16 - 100A	6 - 63A	6-40A
No of Poles	2P, 4P	2P, 4P	2P
Sensitivity	10, 30, 100, 300mA	30, 100, 300mA	30, 100, 300mA
Breaking Capacity	NA	10kA	6kA
Module Size	2P - 2M, 4P - 4M	2P - 4M, 4P - 7.5M	2M
Curve Characteristics	NA	C type	C type
RCD Type	AC, Hi	AC	AC, Hi
CE Marking	Yes	Yes	Yes

* Refer technical catalogue for more details

MZ209

MCBs Accessories

Product	Function	Rating
MZ201 (AX)	Auxiliary Contacts 1NO+1NC to indicate ON/ OFF position of MCB/RCBO	6A, 230VAC
MZ202 (AL)	Contacts 1NO+1NC to indicate ON-TRIP position of MCB/RCBO	6A, 230VAC
MZ203 - 4 (ST)	Shunt Trip for remote tripping of MCB	**MZ203** 230 to 415VAC 110 to 130VDC **MZ204** 24 to 48VAC 12 to 48VDC
MZ205 - 6 (UV)	Undervoltage accessory for tripping of MCB, RCDs and RCBOs in case of low voltage	MZ205 - 48VDC MZ206 - 230VAC
MZ209 (OV)	Over voltage accessory trips the connected device when voltage exceeds beyond 267V	230VAC
MZ215 (OV+LV)	Over & Low voltage accessory trips the connected device when voltage exceeds beyond 267V or between 60V-170V	230VAC
CZ001 (AX+AL)	Contacts 2NO+2NC to indicate ON-OFF-TRIP position of RCCBs. To be used as interface between RCCB and Trip auxiliaries	6A, 230VAC
MZN175	Locking kit for padlocking of Devices	NA

VYT06DH

novello+ Distribution Boards

Description	SPN	TPN	H-PPI	Tier PPI
Standard	IS 8623 - III	IS 8623 - III	IS 8623 - III	IS 8623 - III
No of Ways	4, 6, 8, 12, 16, 18 Way	4, 6, 8, 12, 16 Way	4, 6, 8, 12 Way	4, 6, 8, 10, 12, 16 Way
Colour	Matt finish RAL 9010	Matt finish RAL 9010	Matt finish RAL 9010	Matt finish RAL 9010
Type of Door	Single Door, Double Door, Acrylic Door	Single Door, Double Door, Acrylic Door	Double Door, Acrylic Door	Double Door, Acrylic Door
IP Protection	IP 30, 43, 54	IP 30, 43, 54	IP 43, 54	IP 43, 54
Type of Incomer	Modular	8 Modules	8 Modules, 2 Modules Sub Incomer	8 Modules, 2 Modules Sub Incomer
Outgoing type	Modular	SP MCB	SP MCB	SP MCB
Accessories	Insulated Busbars, Interconnecting Wiresets, Blanking plates, Cable management kit, Indication labels, IP 2x neutral terminal	Insulated Busbars, Interconnecting Wiresets, Blanking plates, Cable management kit, Indication labels, Spirit level, IP2X neutral terminal	Insulated Busbars, Interconnecting Wiresets, Blanking plates, Cable management kit, Indication labels, Spirit level, IP2X neutral terminal	Insulated Busbars, Interconnecting Wiresets, Blanking plates, Cable ties management kit, Indication labels, Spirit level, IP2X neutral terminal

VF312TJ

Enclosures

Description	golf enclosures	vector enclosures	vector enclosure - PV Grade
Standard	IEC 60 439-3	IEC 60 439-3	IEC 60 439-3
No of Rows	1-4 Rows	1-4 Rows	1-4 Rows
No of Modules	4-48 Mod	3-54 Mod	3-54 Mod
IP Category	IP 40	IP 65	IP 65
Type of Mounting	Surface, Flush	Surface	Surface
Accessories	N-PE links, Cable retainers	IP 54 Cable Glands, N-PE links	-
Type of Door	Plain, Transparent	Transparent	Transparent
Application	Indoor	Dust and Humid Area	Dust, Humid, Sun Exposed Areas

HDA125Z

MCCBs

Frame	x160	x250	H250
Standard	IEC 60947-2	IEC 60947-2	IEC 60947-2
No of Poles	3P, 4P	3P, 4P	3P, 4P
Current Rating (A)	16 - 160A	100 - 250A	100 - 250A
Operating Voltage (V)	440VAC	440VAC	690VAC
Breaking Capacity Icu	18, 25, 40kA	40kA	25, 50, 65kA
Insulation Voltage	690VAC	800VAC	800VAC
Calibration Temp	50°C	50°C	50°C (40°C for µP)
Suitable for Isolation	Yes	Yes	Yes
Type of Release	TM	TM	TM, µP
Category	A	A	A
Internal Accessories	AX, AL, ST, UV	AX, AL, ST, UV	AX, AL, ST, UV
External Accessories	Extended Handle, Direct Handle, Spreaders, Phase Barriers, DIN Rail Adaptor	Extended Handle, Direct Handle, Spreaders, Phase Barriers, Motor Operator	Extended Handle, Direct Handle, Spreaders, Phase Barriers, Motor Operator
Mechanical Endurance	20000	20000	30000
Electrical Endurance	10000	10000	10000
MCCB Isolator (as per IEC 60947-3)	Yes	Yes	Yes

VTPN Modular	VTPN MCCB	Phase Segregated	Phase Selector	Flexy	One Way Enclosure	Plug & Socket
IS 8623 - III	IS 8623 - III	IS 8623 - III	IS 8623 - III	IS 8623 - III	IS 8623 - III	IS 8623 - III
4, 6, 8, 10,	4, 6, 8, 10, 12,	4, 6, 8, 12 Way	4, 6, 8, 12 Way 16 Way	14, 16 Mod per Row	2, 4, 6, 8 Modules	"10A - 63A (Metal) 16A - 63A (Plastic)"
Matt finish RAL 9010	Matt finish RAL 9010	Matt finish RAL 9010	Matt finish RAL 9010	Matt finish RAL 9010	Matt finish RAL 9010	Matt finish RAL 9010
Single Door, Double Door, Acrylic Door	Single Door, Double Door, Acrylic Door	Split Door, Double Door	Single Door, Double Door	Acrylic Door		Double Door,
IP 30, 43, 54	IP 43, 54	IP 30, 43	IP 30, 43	IP 43, 54	IP 30	IP 30 Enclosure, IP54 Plug & Socket
12 Modules 3 Modules for ELR / Indicators	12 Modules/ MCCB, 4 Modules Subincomer	8 Modules with Selector Switches	Modular	Modular / MCCB	Modular	
SP / TP MCB	SP / TP MCB	SP MCB	SP MCB	Modular	-	-
Busbar PAN assembly, 200A rated, Inter-connecting Wiresets, Blanking plates,Cable management kit, Spirit level, IP2X neutral terminal	250A busbar PAN assembly, Interconnecting Wiresets, Blanking plates, Cable management kit Spirit level, IP2X neutral terminal	Insulated Busbars, Interconnecting Wiresets, Blanking plates, Cable management kit Indication labels, Spirit level, IP2X neutral terminal	Insulated Busbars, Interconnecting Wiresets, Blanking plates, Cable management kit, Indication labels, Spirit level, IP2X neutral terminal	Blanking plates, Cable management kit, Indication labels, Spirit level, IP2X neutral terminal	-	Plugs

H400 / 630	H1000	H1600
IEC 60947-2	IEC 60947-2	IEC 60947-2
3P, 4P	3P, 4P	3P, 4P
250-630A	630-1000A	1250-1600A
690VAC	690VAC	690VAC
25, 50, 70kA	50, 70kA	50, 70kA
800VAC	800VAC	800VAC
45°C	45°C	45°C
Yes	Yes	Yes
TM, µP	µP	µP
B (250,400A)	B	B
AX, AL, ST, UV	AX, AL, ST, UV	AX, AL, ST, UV
Extended Handle, Direct Handle, Spreaders, Phase Barriers, Motor Operator	Extended Handle, Direct Handle, Spreaders, Phase Barriers, Motor Operator	Extended Handle, Direct Handle, Spreaders, Phase Barriers, Motor Operator
15000	15000	15000
4500	4500	4500
Yes	Yes	Yes

HI451

Manual changeover switches

Description	HI452	HI454	HI456	HI458	HI460	HI462	HI464
In	160A	250 A	400 A	630 A	800 A	1250 A	1600 A
insulation voltage Ui (V)	800	800	800	1000	1000	1000	1000
impulse withstand voltage Uimp (kV)	8	12	8	12	12	12	12
Ie AC 22, 400 V (A)	160	250	400	630	800	1250	1600
Ie AC 23, 400 V (A)	160	250	250	500	800	1250	1600
operational power (kW) AC 23A à 400 V	80	132	220	280	450	710	710
short circuit current with gG DIN fuses (kA)	100	50	18	70	50	100	100
associated fuse rated (A)	160	250	400	630	800	1250	2 x 800
rated short circuit making capacity Icm (A peak)	12	17	15.3	30	48	75	86
rated short time withstand current Icw (kA/1s)	7	9	9	13	26	50	50
mechanical endurance (cycles)	10000	10000	10000	5000	3000	4000	4000
connection for lugs (mm²)	95	150	240	2 x 300	2 x 300	4 x 185	6 x 185

HIB412

Automatic changeover switches

Description	HIB412	HIB416	HIB425	HIB440	HIB463	HIB480	HIB490	HIB491	HIB492
In	125 A	160 A	250 A	400 A	630 V	800 V	1000 V	1250 V	1600 V
insulation voltage Ui (V)	800	800	800	1000	1000	1000	1000	1000	1000
impulse withstand voltage Uimp (kV)	8	8	8	8	12	12	12	12	12
Ie AC 22, 400 V (A)	125	160	250	400	630	800	1000	1250	1600
Ie AC 23A / AC 23B, 400 V (A)	125/ 125	160/ 160	250/ 250	400/ 400	500/ 630	800/ 800	1000/ 1000	1250/ 1250	1600/ 1600
operational power AC 23A at 400 V (kW)	63	80	132	220	280	450	600	710	710
short circuit current with gG DIN fuses (kA)	100	100	50	18	70	50	100	100	100
associated fuse rated (A)	125	160	250	400	630	800	1000	1250	2 x 800
rated peak withstand current (kA peak)	20	20	23	23	45	48	60	75	86
rated short time withstand current Icw (kA/1s)	7	7	9	13	13	26	35	50	50
mechanical endurance (cycles)	10000	10000	8000	8000	5000	4000	4000	4000	4000
lugs connection (mm²)	50	95	150	240	2 x 300	2 x 300	4 x 185	4 x 185	6 x 185

EKS301B

Automatic Changeover with Current Limiter (ACCL)

Description	
Type:	SPN
Design:	Modular 35mm DIN mounting
Standard:	IEC60947-3, IEC60947-6
Mains Rating:	30A
Genset Rating:	1.5 to 20A
Utilization Category:	AC21A(IEC60947-3), AC31B(IEC60947-6)
Short Circuit Withstand:	3kA
Electrical Endurance:	6000 operations
Certification:	CE, RoHS
Terminal Size:	10mm² (Flexible & Rigid)

SFT240N

Isolators / Changeover

Description	Isolators	Changeover	Isolator PV Grade
Standard	IEC 60974-III	IEC 60974-I	IEC 60974-III
Current Rating	25A - 125A	25, 40A	32A
Poles	2P, 3P, 4P	2P, 4P	4P
Operating Voltage	415VAC	415VAC	1000VDC
Positions	ON-OFF	Source I - OFF - Source II	ON-OFF rotary knob
CE Marking	Yes	Yes	Yes
Type of Mounting	Modular DIN Channel	Modular DIN Channel	Modular DIN Channel

LS501

HRC Fuses & Fuse carriers

Description	LF3xxG	LF4xxG	LF3xxPV
Standard	IEC 60269-2	IEC 60269-2	IEC 60269-2
Operating Voltage	500VAC (400VAC for 32A)	690VAC, 500VAC for 32 to 45A, 400VAC for 50A	1000VDC (600VDC for 25A and 32A)
Current Rating	0.5A to 32A	2A to 50A	1A to 32A
Breaking Capacity	120kA	120kA (80kA for 2 to 25A)	30kA
Fuse Size	10.3x38mm	14x51mm	10.3x38mm
Category	gG	gG	gPV
Fuse Holder Size	L38 Fuse carrier	L51 Fuse carrier	L38 PV Fuse carrier
Fuse Holder Rating	32A, 690VAC	50A, 690VAC	32A, 1000VDC

SP320

Surge Protection Devices

Standard	SPxxx	SPDxxx/ SPNxxx	SPV325
Type	Type 1 / Class B	Type 2 / Class C	Type 2
Imax	50kA (1P), 100kA (3P)	15kA, 40kA, 65kA	40kA
Test Waveform	10/350us	8/20us	8/20us
Continuous Operating Voltage	255V / 50Hz	275V / 50Hz	1000VDC
Connections	L1,L2,L3-PE & N - PE	L1,L2,L3,N - PE	DC - PE
Life Indicator	No	Yes	Yes
Reserve Indicator	No	Yes (for SPNxxxR)	No
Voltage Protection Level	< 4kV	< 1.5kV	< 4kV
Back Up fuse	Only above Current 160A	Yes	Yes
Protection Type	Direct Lightning	Indirect Lightning, Switching Surges	PV Installations

ETC463

Contactors

Description	ESCx2x	ESCx4x	ESCx6x	ETC4xx
Standard	IEC 61095	IEC 61095	IEC 61095	IEC 61095
Certifications		KEMA, VDE, NF (France), IMQ (Italy)		
Current Rating (AC 7a)	25A	40A	63A	40A, 63A
Coil Voltage	230VAC	230VAC	230VAC	230VAC
Impulse Withstand	4kV	4kV	4kV	4kV
No of Contacts	2NO, 1NO+1NC, 4NO	2NO, 3NO, 4NO, 2NO+2NC, 3NO+1NC	2NO, 3NO, 4NO, 2NO+2NC, 3NO+1NC	4NO
Mechanical Endurance	1,000,000	1,000,000	1,000,000	1,000,000
Electrical Endurance	30,000	30,000	30,000	30,000
Auxiliary Contacts	1NO+1NC (ESC080)	1NO+1NC (ESC080)	1NO+1NC (ESC080)	1NO+1NC (ESC080)
Manual Override Function	No	No	No	Yes

SVN332

Push Buttons

Description	SVN3xx	SVN4xx
Standard	IEC 60947-5	IEC 60947-5
Rating	16A	16A
Voltage	230VAC	230VAC
No of Contacts	1NO, 2NO, 1NO+1NC	1NO, 2NO
Rated Impulse withstand Voltage	4kV	4kV
Indication	No	Yes
Type of Mounting	Modular DIN channel	Modular DIN channel

SVN222 & SVN129

Indicating Lights

Description	Single Indicators	2 in 1 Indicators	3 in 1 Indicators
Standard	IEC62094-1	IEC62094-1	IEC62094-1
Technology	LED Light	LED Light	LED Light
Voltage	230VAC, 50Hz	230VAC, 50Hz	230VAC, 50Hz
Colour	Red, Orange, Blue, Green	Red-Green	RYB, RGO (On-Off-Trip)
No of burning hrs	100,000hrs	100,000hrs	100,000hrs

SM500

Analogue Meters

Description	Ammeter	Voltmeter
Type	Analogue	Analogue
Display Rating	30, 50, 100, 150, 250A	0 - 500VAC
Direct Measurement	30A rating only	Yes
Mounting	Modular DIN Mounting	Modular DIN Mounting
CT Rating	CT (50/5, 100/5, 150/5, 250/5)	
Selector Switches	Modular Ammeter Selector Switch with OFF position	Modular Voltmeter Selector Switch with OFF position

EE805

Movement detectors

Technical Specification	EE804	EE805
Type of Detector	Movement	Movement
Load capacity	10A AC1	10A AC1
Area of coverage	6m diameter	6m diameter
Angle of view	360°	360°
Off time delay	Potentiometer : 5-15 mins	Potentiometer : 5-15 mins
Lux level adjustment	Potentiometer : 5-1000 lux	Potentiometer : 5-1000 lux
Light regulation	No	No
Mounting	Surface mounting	Flush mounting
Remote control setting for Timer	No	No
Remote control setting for lux level	No	No
No of Channels	Single	Single

EE810

Presence detectors

Technical Specification	EE810	EE811
Type of Detector	Movement & Presence	Movement & Presence
Load capacity	16A AC1	16A AC1
Area of coverage	4m x 3.5m - presence detection 13m x 7m - movement detection	4m x 3.5m - presence detection 13m x 7m - movement detection
Angle of view	360°	360°
Off time delay (light channel)	Potentiometer : 1-30 mins	Potentiometer : 1-30 mins
(presence channel)	-	Potentiometer : 30 sec - 1 Hr
Lux level setting	Potentiometer : 5-1200 lux	Potentiometer : 5-1200 lux
Light regulation	No	No
Mounting	Surface mounting	Surface mounting
Remote control setting for Timer	No	No
Remote control setting for lux level	No	No
No of Channels	1	2 (light & presence)
Load capacity CH1	16A AC1	16A AC1
Load capacity CH2	NA	2A AC1 for HVAC
Others	Slave output	Push button input/Slave input

EE815

Technical Specification	EE815
Type of Detector	Movement & Presence
Load capacity	16A AC1
Area of coverage	5m diameter - presence detection 7m diameter - movement detection
Angle of view	360°
Off time delay	Potentiometer : 1-60 mins
Lux level adjustment	Potentiometer : 5-1000 lux
Light regulation	No
Mounting	Flush mounting
Remote control setting for timer	Yes
Remote control setting for lux level	Yes
No of Channels	1
Load capacity CH1	16A AC1
Load capacity CH2	NA
Others	Push button input for override

EE812

Presence detector + light regulator

Technical Specification	EE812	EE816
Type of Detector	Movement, Presence, Dimming with 1-10V ballast	Movement, Presence, Dimming with DSI & DALI ballast
Load capacity	10A AC1	16A AC1
Area of coverage	4m x 3.5m - presence detection 13m x 7m - movement detection	5m diameter - presence detection 7m diameter - movement detection
Angle of view	360°	360°
Off time delay	Potentiometer : 1 - 30 mins	Potentiometer / RC : 1 mins - 1 Hr
Lux level adjustment	Potentiometer : 5 -1200 lux	Potentiometer / RC : 5 -1000 lux
Light regulation	Yes; with 1-10V ballast	Yes; with DALI / DSI ballast
Mounting	Surface mounting	Flush mounting
Remote control setting for Timer	No	Yes
Remote control setting for lux level	No	Yes
No of Channels	1 (light channel)	1
Others	- 30 ballast of 1-10V can be regulated from a single EE812 - Push button input for modification of light level	- Push button input for override - Remote control setting of lux level & delay timing with EE 807 - 24 nos DAL / DSI ballast can regulated from a single detectort

EE820

EE870

Movement detectors outdoor, wall mounted

Technical Specification	EE820 / 830 / 840	EE850 / 860 / 870
Type of Detector	Movement - outdoor (IP 55)	Movement - outdoor (IP 55)
Load capacity	10A AC1	16A AC1
Area of coverage	Front - 16m : Lateral - 6m (EE820) Front - 16m : Lateral - 8m (EE830) Diameter: 12m (EE840)	Front - 16m : Lateral - 6m (EE850) Front - 16m : Lateral - 10m (EE860) Front - 16m : Lateral - 10m (EE870) circular dia - 6m
Angle of view	EE820-140° EE830-200° EE840-360°	EE850-140° + down detection EE860-220° + down detection EE870-220°+360° + down detection
Off time delay	Potentiometer : 5 sec - 15 mins	Potentiometer 5 sec - 15 mins & Remote control 5 sec - 30 mins
Lux level setting	Day and night	Day and night
Light regulation	No	No
Mounting	wall / corner / ceiling mounting	wall / corner / ceiling mounting
Remote control setting for timer	No	Yes
Remote control setting for lux level	No	Yes
Others	- Corner mounting with bracket - Ceiling mounting with bracket - Vertical & horizontal head orientation	- Corner mounting with bracket - Ceiling mounting without bracket - Vertical & horizontal head orientation

EE883

Hyper Frequency Detector

Technical Specification	EE883
Type of Detector	Hyper Frequency
Voltage	230-240V
Frequency	50Hz
Transmitter frequency	5.8 GHz +/- 0.075GHz
Transmitter power	max. 1 mW
Standards	EN 60669-2-1 RF Standard ETSI EN 300 440 – 1 V1.3.1
Front/ Back side protection	IP 54
Protection class	Class 2
Capture area	360°
Time adjustment	5 sec. … 15min
Sensitivity adjustment	1m … 8m
Twilight adjustment	2 … 2000 LUX
Temperature range operating	-20° … 50°C
Temperature range Storage	-33° …+70°C
Power consumption	1W
Incandescent loads	2500W
Halogen lamps	2500W
Halogen with ferromagnetic transformer	1500VA
Halogen lamps with electronic transformers	1500VA
Fluorescent tubes with parallel compensation	400W
Electronic ballast	580W
Compact fluorescent lamp (CFL)	20 x 20W

EVN004

Light dimmers

Technical Specification	EVN012	EVN004
Type of Dimmer	Universal load phasecut dimmer	Universal load phasecut dimmer
Load type and wattage	300W - capacitive / resistive / inductive	500W - capacitive / resistive / inductive
Auto load recognition	Yes	Yes
Dimming method	Active phasecut	Active phasecut
Dimming range	1-100%	1-100%
Local input / interface	Yes	Yes
Remote input / interface	Remote bell push;	Remote bell push; 1 BP for ON/OFF; 1 BP for scene recall
Parallel operation of BP	Yes	Yes
Scene recall	No	Yes: one scene
Setting of dimming parameter	No	No
Master / Slave operation	No	No
Power supply	230V, 50 Hz	230V, 50 Hz
Power Dissipation	2.1W	4.5W
Display of dimming level	No	No
Memory function	Yes; remembers last level	Yes; remembers last level
Working Temperature	-10 to +45°C	-10 to +45°C
Interface to other dimmers	No	No

EV102

Technical Specification	EV102	Pilot EV108
Type of Dimmer	Universal phasecut dimmer	Pilot dimmer for 1 / 10V ballast
Load type and wattage	1000W - capacitive / resistive / inductive & 1- 10V ballast	30 electronic ballast 1-10V
Wattage	1000W	30 Nos 1-10V ballast
Auto load recognition	Yes	NA
Dimming method	Active phasecut & 1-10 V	1-10V
Dimming range	1-100%	1-100%
Local input / interface	Yes	Yes
Remote input / interface	Remote bell push; 1 BP for ON/OFF; 2 BP for 3 scene recall	Remote bell push; 1 BP for ON/OFF; 2 BP for 3 scene recall
Parallel operation of BP	Yes	Yes
Scene recall	Yes: Two scenes	Yes: Two scene
Setting of dimming parameter	Yes	Yes
Master / Slave operation	Yes	No
Power supply	230V, 50 Hz	230V, 50 Hz
Power Dissipation	15W	3W
Display of dimming level	Yes	Yes
Memory function	Yes; remembers last level	Yes; remembers last level
Working Temperature	-5 to +45°C	-5 to +45°C
Interface to other dimmers	Yes; 30 dimmers / ballast	Yes; 30 dimmers / ballast

EH711

Time Switches

	EH011	EH111	EH711	EH771
Supply	230V, 50Hz	230V, 50Hz	230V, 50Hz	230V, 50Hz
working accuracy	+/- 1sec/day	+/- 1sec/day	+/- 1sec/day	+/- 1sec/day
protection degree	IP 20	IP20	IP20	IP20
mounting	DIN	DIN	surface & DIN	Surface & DIN
No of channels	1	1	1	1
cycle	Daily	Daily	Daily	Weekly
Min switching time	15 min	15 min	20 min	2 H

EG103E

Technical Specification	EG110	EG103E
Cycle	Daily	Weekly
No of Channels	1 No	1 No
Change Over Contact	16A AC1 - 230V	16A AC1 - 230V
Accuracy	+/- 1 sec / 24H	+/- 1.5 sec / 24H
Programming Capacity	22 Programming steps	56 Programming steps
Operating Reserve	Lithium battery - 3 yrs without supply	Lithium battery - 5 yrs without supply
Operating Temperature	-10°C to +50°C	-10°C to +45°C
Voltage Supply	230V	230V
Protection Degree	IP 20	IP 20
Programming via software	No	Yes; with EG003U
Others	Manual override Timed override	Auto change winter / summer time Impulse programming Backlit display Holiday mode

EG293B

Technical Specification	EG170	EG293B
Cycle	Weekly	Yearly
No of Channels	1 No	2 No
Change Over Contact	16A AC1 - 230V	2 change over with 10A AC1
Programming Capacity	20 programming steps	300 programming steps
Accuracy	+/- 1.5 sec / 24H	+/- 0.2 sec / 24H
Operating Reserve	Lithium battery - 5 yrs without supply	Lithium battery - 5 yrs without supply
Operating Temperature	-10° C to +45°C	-10° C to +50°C
Voltage Supply	230V	230V
Protection Degree	IP 20	IP 20
Programming via software	No	Yes
Others	NA	Auto change winter / summer time 10 sub programs Holiday modes

EE180

Technical Specification	EE180	EE181
Cycle	Weekly, astro	Weekly, astro
No of Channel	1 No	2 Nos
Change Over Contact	16A AC1 - 240V	16A AC1 - 240V
Operating Reserve	Lithium battery with 5 yrs backup without supply	Lithium battery with5 yrs backup without supply
Accuracy	+/- 1.5 sec/hour	+/- 1.5 sec/hour
Programming Key	Yes	Yes
Auto change of winter / summer time	Yes	Yes
Holiday Programming	Yes	Yes
Temporary override	15/30/60 mins	15/30/60 mins
Protection Degree	IP 20	IP 20
Operating Temperature	-10°C to +55° C	-10°C to +55° C
Programming via software	Yes: via EG003U	Yes: via EG003U
Others	2 module width	- 2 module width - Expert mode allows number of interrupts

EE702

Twilight switches

Technical Specification	EE100	EE110	EE702
Supply	230V	230V	230V
Sensitivity Range	5 - 100 lux	5 - 100 lux	2 - 1000 lux
	50 - 2000 lux	50 - 2000 lux	
On / Off delay	15 & 60 sec	15 & 60 sec	1 - 120 sec
Output	16A AC1	16A AC1	16A AC1
Operating Modes	Auto: permanent On / Off Test: setting of working level	Auto: permanent On / Off Test: setting of working level	Auto : permanent On / Off Test: setting of working level
Max length between photo	50 meters	50 meters	NA; buit in photo cell
cell & modular device	(photo cell is IP 54)	(photo cell is IP 54)	(IP 55)
Width	3 modules	5 modules	-
Photocell	EE003	EE003	Built in
Programming	No	Electromechanical programmer with 24 hr cycle; 15 min increment; accuracy : +/- 6 min / yr	NA
Lux range setting	Potentiometer	Potentiometer	Potentiometer

EMN005

Time Lag switch

Technical Specification	**EMN 005**
Main Supply	230VAC, 50/60 Hz
Output contact	16 A AC1
Consumption	< 1 W
Time delay	30 sec to 10 mins / 1 hours (extended)
Width	1 module
Local command	Automatic / override ON
IP	20
Working Temperature	-10°C to +50°C
Modes of operation	4 modes in EMN005

EPN540

Latchig Relay

Technical Specification	**EPN510**	**EPN515**	**EPN520**	**EPN525**	**EPN540**
Rating	16 A	16 A	16 A	16 A	16 A
No of Poles	1 No	1 NO + 1NC	2 NO	2 NO + 2NC	4 NO
Voltage	230 V	230 V	230 V	230 V	230 V

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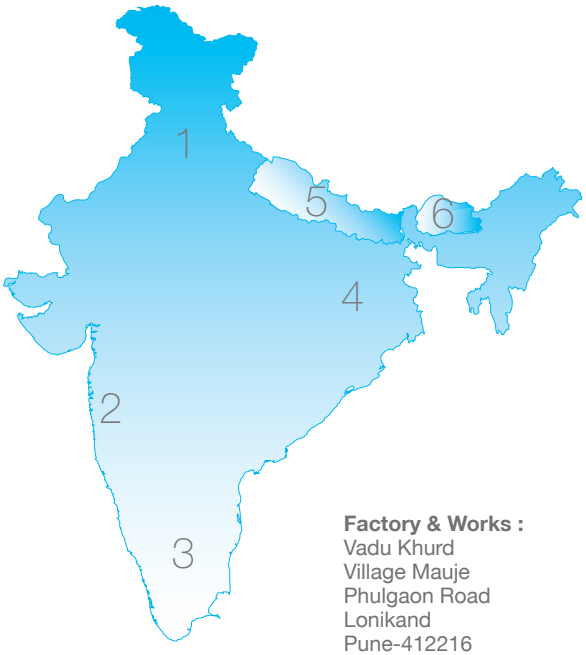

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