aptis
Pricelist with effect from

01st August 2023

:hager

The reliable partner for intelligent solutions.

Our vision

Hager Group's vision is to make life on our planet safer, cleaner and more enjoyable through ingenious, sustainable and reliable electrical infrastructure solutions, for all kinds of buildings.

Our world today and tomorrow

We're constantly reimagining electricity in order to meet the world's rising energy demands with better performing and less consuming products and solutions. We're also moving at pace with technology as electricity usage becomes 'smarter' in homes and buildings and yet one thing endures in all this fast-moving change, we will always produce and supply for you safe and simple solutions and products. It's what we have been doing for over 65 years.

Big enough to matter, small enough to care

As a global player, we play in every domain of the electrical infrastructure world; energy distribution, energy management, e-mobility, cable management, wiring accessories, connected and automated homes. We have you covered and our products and solutions are almost always customisable should you desire.
We've built a reputation for high quality, scalable and dependable European-made products that are tested, trusted and ready for all types of buildings large and small, so you and your customers can rest assured your installations will endure over the long term.

Generational approach

As a family-owned business that prides itself on being easy to work with, finding solutions in the spirit of collaboration, cooperation and co-creation is how we enjoy working on a daily basis, it's how we feel business is done best and how end results are best achieved together.
Because we're driven by an entrepreneurial flair in a world where people like you matter to us, so much so that we'll be by your side right through your projects and beyond. No matter what, Hager will go the extra mile for you to meet your requirements.

Looking ahead

We are investing on a large scale to ensure you will always get the best from us with huge investments in production capacity and at distribution sites but also developing new and exciting products in our new research and development centres to meet the joint challenges of energy consumption and the environment. As much as the world changes we'll never change our approach to you, our customers, we'll always be with our customary support and learning platforms continuously available for you, with you.

hagergroup

Hager Group is a leading provider of solutions and services for electrical installations in residential, commercial and industrial buildings with 12,900 employees generating € 2.8 Bn in sales (2022). Components and solutions are produced at 20 locations around the globe and are distributed to customers in more than 100 countries.

Members of Hager Group

:hager

B. Berker

ELCOM.

E3/DC ENERGY STORAGE

BOCCHIOTTI

IBOCO

On our journey to a sustainable future

At Hager Group, we shape the electric world of tomorrow,

a world in which long-term success goes hand in hand with

sustainability.

For us, sustainability encompasses Ethics, Employees and the Environment. We call our approach E3. This embraces an ethical approach to business, an inclusive and healthy work environment and reliable products and ingenious solutions which are future-proof. With a strong focus on the environment, we're on the way to making our company a low-carbon operation. We want to take our employees, partners and customers with us on this journey. Let's make better choices together. For our planet and for all generations.

Ethics

We put a strong emphasis on a responsible approach towards business. This approach considers our own employees as well as every person involved in our value chain: from suppliers and their employees, to partners and customers. As we produce electrical equipment and solutions, consumer safety is one of our main concerns, as well as business and data integrity. We are committed to complying with all national and international industry standards and in many instances go above and beyond what is required. Since 2007, we are signatories of the United Nations' Global Compact.

E3
Ethics
Employees
Environment

Employees

Recruiting and retaining talent is one of the great challenges of businesses today. For us, a sustainable business is only possible if we can attract the right people who feel welcome and able to fulfil their potential at Hager Group. We see our company as a cross-generational endeavour, much like a family. With life-long learning opportunities and opportunities to build a meaningful career we're offering our employees the ideal basis from which to fully engage in a long-term and fruitful mutual relationship with our company. It goes without saying that diversity and inclusion and equal opportunities are part and parcel of our recruitment policies.

Environment

We are committed to reducing waste and emissions considerably by investing in an environmentally friendly design, the longevity and quality of our products and more sustainable solutions in production and distribution. We perform full life cycle analysis of all our products in the form of a Product Environmental Profile (PEP). At production level, we are continuously looking for ways to reduce our resources consumption. Currently, 18 of our production facility locations and 4 of our distribution centres are certified to the international environmental management standard ISO 14001, which defines globally recognised requirements for environmental management.

Sustainability certifications for Hager Group:

Member of:

SILVER · OCTOBER 2021 · 2021 ecovadis Sustainability Rating

ISO 14001

KLIMASCHUTZ UNTERNEHMEN
DIE KLIMASCHUTZ- UND ENERGIE-EFFIZIENZGRUPPE DER DEUTSCHEN WIRTSCHAFT

UN GLOBAL COMPACT
United Nations Global Compact

Building the electrical world of tomorrow together

Let's accelerate our energy transition towards more renewables, electric mobility and energy management.

Daniel Hager
Hager Group CEO

Dear customers, partners and friends of Hager Group

We are living through a time of change. The new geopolitical and market environment makes us realise even more how precious our resources are and how important energy is to our way of life.

The recent developments call upon us to further accelerate our energy transition. More renewables, more electric mobility, more energy management. More than ever we understand what "the future will be electric" really means. This necessary change is a possibility for our industry as a whole.

Energy scarcity makes us appreciate energy efficiency and management in a new way. Our industry plays an essential part in providing the products and solutions to master these challenges. We sit at the heart of shaping the electrical world of tomorrow, a world in which long-term success goes hand in hand with sustainable practices. The current challenges make us all the more determined to ignite this change ourselves - together with our partners and customers.

There is a special strength in pulling together, in finding common ground, in talking to each other and understanding what the other party needs most and how we can support each other. Together, we form a strong network, able to master the challenges ahead of us now and in the future. Of this I am convinced.

I remain optimistic. The challenges are immense. But I don't know of any other industry for which this era of change is such a great opportunity. We have it in our hands to prove ourselves and to build a great future for our industry.

Yours sincerely,
Daniel Hager

aptis range

A range with required features and functionality for safe electrical installations.

Built and launched around the concept of 3A's.

01

Acceptability

The range is packed with feature & benefits. It offers the best functional advantages, while complying to all mandatory standards.

02

Availability

Available through out the country through our wide network of retailers.

03

Affordability

Now experience world class offer to suit your budget.

Distribution boards

MCBs

RCCBs

RCBOs

SPN distribution boards

Characteristics:
- Single Door
- Double Door

Standard Accessories:
- Wires sets
- Insulated busbars
- Insulated neutral bars & earth bar
- Circuit identification labels

Y81081

Single Door DBs

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4 way, 4 modules	1	900	▶ **Y81041**
6 way, 6 modules	1	1040	▶ **Y81061**
8 way, 8 modules	1	1260	▶ **Y81081**
12 way, 12 modules	1	1490	▶ **Y81121**
16 way, 16 modules	1	1850	▶ **Y81161**

Double Door DBs

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4 way, 4 modules	1	1435	▶ **Y81042**
6 way, 6 modules	1	1590	▶ **Y81062**
8 way, 8 modules	1	1785	▶ **Y81082**
12 way, 12 modules	1	2125	▶ **Y81122**
16 way, 16 modules	1	2685	▶ **Y81162**

Y81122

TPN distribution boards

Characteristics:
- Single Door
- Double Door
- 8 module Incomer & SP MCBs as outgoing

Standard Accessories:
- Wires sets
- Insulated busbars
- Insulated neutral bars & earth bar
- Circuit identification labels

Y82041

Single Door DBs
(Incomer + Outgoing Modules)

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4 way, 8+12 modules	1	2825	**Y82041**
6 way, 8+18 modules	1	3500	**Y82061**
8 way, 8+24 modules	1	4110	**Y82081**
12 way, 8+36 modules	1	6030	**Y82121**

Double Door DBs
(Incomer + Outgoing Modules)

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4 way, 4+12 modules	1	3535	▶ **Y82043**
4 way, 8+12 modules	1	3650	▶ **Y82042**
6 way, 8+18 modules	1	4395	▶ **Y82062**
8 way, 8+24 modules	1	5365	▶ **Y82082**
12 way, 8+36 modules	1	7930	▶ **Y82122**

Y82062

One way enclosures

Characteristics:
- IP30 degree of protection

Y83041

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
2 way, 2 modules	1	525	▶ **Y83021**
4 way, 4 modules	1	555	▶ **Y83041**
20A 2 Pin + SC*, 2 modules	1	1645	**Y84220**
20A 3 Pin + SC*, 4 modules	1	2845	**Y84420**
32A 3 Pin + SC*, 4 modules	1	3305	**Y84432**

* SC - Scraping Earth

Plug & Socket outlets-metal

Characteristics:
- Supplied with metal plug & socket, provision to mount MCBs

Y84220

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
10A 2 Pin + SC*, 1 modules	1	1420	**Y84110**
20A 2 Pin + SC*, 1 modules	1	1495	**Y84120**

* SC - Scraping Earth

Phase Selector DB

Characteristics:
- Double Door
- As per IS 8623 - III
- 40A & 63A rotary switches

- Accessories:
-- Wires sets
-- Insulated Bus bars
-- Neutral bars & earth bar

Y85062

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4 Way, 8+12 Modules	1	10135	**Y85042**
6 Way, 8+18 Modules	1	10805	**Y85062**
4 Way, 8+12 Modules	1	11730	**Y85041**
6 Way, 8+18 Modules	1	12005	**Y85061**
8 Way, 8+24 Modules	1	12730	**Y85081**
12 Way, 8+36 Modules	1	14295	**Y85121**

Characteristics:
- Standard: IS / IEC 60898, IEC 60898
- Rated Current: 6 – 63A
- Poles: 1P, 2P, 3P, 4P
- Rated Operating Voltage: 240 / 415V
- Frequency: 50Hz
- Tripping Characteristics: C Curve

- Breaking Capacity: 6000A
- Electrical Endurance: 10000 Operations
- ISI marked
- Terminals: IP2X Terminal
- Capacity: 25sq mm rigid, 16sq mm flexible

Single Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
1P 6A C Curve 6kA	12	242	▶ Y1106
1P 10A C Curve 6kA	12	242	▶ Y11101
1P 16A C Curve 6kA	12	242	▶ Y11161
1P 20A C Curve 6kA	12	242	▶ Y11201
1P 25A C Curve 6kA	12	242	▶ Y1125
1P 32A C Curve 6kA	12	242	▶ Y1132
1P 40A C Curve 6kA	12	525	▶ Y1140
1P 50A C Curve 6kA	12	601	Y1150
1P 63A C Curve 6kA	12	601	▶ Y1163

Y1110

Double Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
2P 6A C Curve 6kA	6	790	▶ Y1206
2P 10A C Curve 6kA	6	790	▶ Y1210
2P 16A C Curve 6kA	6	790	▶ Y12161
2P 20A C Curve 6kA	6	790	▶ Y1220
2P 25A C Curve 6kA	6	790	▶ Y1225
2P 32A C Curve 6kA	6	790	▶ Y1232
2P 40A C Curve 6kA	6	1199	▶ Y1240
2P 50A C Curve 6kA	6	1327	Y1250
2P 63A C Curve 6kA	6	1327	▶ Y1263

Y1210

Triple Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
3P 6A C Curve 6kA	4	1297	▶ Y1306
3P 10A C Curve 6kA	4	1297	▶ Y13101
3P 16A C Curve 6kA	4	1297	▶ Y13161
3P 20A C Curve 6kA	4	1297	▶ Y1320
3P 25A C Curve 6kA	4	1297	▶ Y1325
3P 32A C Curve 6kA	4	1297	▶ Y1332
3P 40A C Curve 6kA	4	1874	▶ Y1340
3P 50A C Curve 6kA	4	2063	Y1350
3P 63A C Curve 6kA	4	2063	▶ Y1363

Y1310

Four Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4P 6A C Curve 6kA	3	1689	▶ Y1406
4P 10A C Curve 6kA	3	1689	▶ Y14101
4P 16A C Curve 6kA	3	1689	▶ Y14161
4P 20A C Curve 6kA	3	1689	▶ Y1420
4P 25A C Curve 6kA	3	1689	▶ Y1425
4P 32A C Curve 6kA	3	1689	▶ Y1432
4P 40A C Curve 6kA	3	2368	▶ Y1440
4P 50A C Curve 6kA	3	2586	Y1450
4P 63A C Curve 6kA	3	2586	▶ Y1463

Y1410

Characteristics:

- Standard: IS / IEC 60898, IEC 60898
- Rated Current: 6 – 63A
- Poles: 1P, 2P, 3P, 4P
- Rated Operating Voltage: 240 / 415V
- Frequency: 50Hz
- Tripping Characteristics: B Curve

- Breaking Capacity: 10000A
- Electrical Endurance: 10000 Operations
- ISI marked
- Terminals: IP2X Terminal
- Capacity: 25sq mm rigid, 16sq mm flexible

Single Pole

Y7110

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
1P 6A 10kA	12		Y7106
1P 10A 10kA	12		Y7110
1P 16A 10kA	12		Y7116
1P 20A 10kA	12	* price on request	Y7120
1P 25A 10kA	12		Y7125
1P 32A 10kA	12		Y7132
1P 40A 10kA	12		Y7140
1P 63A 10kA	12		Y7163

Double Pole

Y7220

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
2P 6A 10kA	6		Y7206
2P 10A 10kA	6		Y7210
2P 16A 10kA	6		Y7216
2P 20A 10kA	6	* price on request	Y7220
2P 25A 10kA	6		Y7225
2P 32A 10kA	6		Y7232
2P 40A 10kA	6		Y7240
2P 63A 10kA	6		Y7263

Triple Pole

Y7325

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
3P 6A 10kA	4		Y7306
3P 10A 10kA	4		Y7310
3P 16A 10kA	4		Y7316
3P 20A 10kA	4	* price on request	Y7320
3P 25A 10kA	4		Y7325
3P 32A 10kA	4		Y7332
3P 40A 10kA	4		Y7340
3P 63A 10kA	4		Y7363

Four Pole

Y7410

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4P 6A 10kA	3		Y7406
4P 10A 10kA	3		Y7410
4P 16A 10kA	3		Y7416
4P 20A 10kA	3	* price on request	Y7420
4P 25A 10kA	3		Y7425
4P 32A 10kA	3		Y7432
4P 40A 10kA	3		Y7440
4P 63A 10kA	3		Y7463

aptis RCCBs
Characteristics:
- Standard: IS 12640-I, IEC 61008
- Rated Current: 25, 40, 63A
- Rated Voltage: 230 / 415VAC
- Poles: 2P, 4P
- Sensitivity: 30, 100, 300mA

- RCCB type: AC
- Rated Residual Making & Breaking capacity: 1500A
- ISI marked
- Terminals: IP2X
- Terminal Capacity: 25sq mm rigid, 16sq.mm flexible

Double Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
2P 25A 30mA	1	3147	▶ Y5232
2P 25A 100mA	1	3505	▶ Y5242
2P 25A 300mA	1	3530	▶ Y5252
2P 40A 30mA	1	3689	▶ Y5234
2P 40A 100mA	1	3837	▶ Y5244
2P 40A 300mA	1	4149	▶ Y5254
2P 63A 30mA	1	4783	▶ Y5236
2P 63A 100mA	1	4819	▶ Y5246
2P 63A 300mA	1	4896	▶ Y5256

Y5232

Four Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4P 25A 30mA	1	4485	▶ Y5432
4P 25A 100mA	1	4662	▶ Y5442
4P 25A 300mA	1	4726	▶ Y5452
4P 40A 30mA	1	4261	▶ Y5434
4P 40A 100mA	1	4392	▶ Y5444
4P 40A 300mA	1	4443	▶ Y5454
4P 63A 30mA	1	4915	▶ Y5436
4P 63A 100mA	1	5157	▶ Y5446
4P 63A 300mA	1	5175	▶ Y5456

Y5432

aptis RCBOs
Characteristics:
- Standard: IEC 61009
- Rated Current: 16 - 63A
- Sensitivity : 30,100 & 300 mA
- Poles: 2 pole and 4 pole
- Rated Operating Voltage: 240 / 415V
- Frequency: 50Hz
- Tripping Characteristics: C Curve
- Type AC

- Breaking Capacity: 10kA
- Earth fault indication
- Type AC
- Breaking Capacity: 10kA
- Earth fault indication
- Positive contact indication
- Terminals: IP2X Terminal
- Capacity: 25sq mm rigid, 16sq mm flexible
- ISI marked

Description	Sensitivity	Pack Qty.	Unit MRP (₹)	Cat. Ref.
16A, 2P 4 modules	30 mA	1	3444	YA2316
25A, 2P 4 modules	30 mA	1	3444	YA2325
32A, 2P 4 modules	30 mA	1	3764	YA2332
40A, 2P 4 modules	30 mA	1	4474	YA2340
63A, 2P 4 modules	30 mA	1	5358	YA2363
16A, 2P 4 modules	100 mA	1	4305	YA2416
25A, 2P 4 modules	100 mA	1	4221	YA2425
32A, 2P 4 modules	100 mA	1	4305	YA2432
40A, 2P 4 modules	100 mA	1	4952	YA2440
63A, 2P 4 modules	100 mA	1	5729	YA2463
16A, 4P 6 modules	30 mA	1	4850	YA4316
25A, 4P 6 modules	30 mA	1	4850	YA4325
32A, 4P 7 modules	30 mA	1	5002	YA4332
40A, 4P 7 modules	30 mA	1	5076	YA4340
63A, 4P 7 modules	30 mA	1	6010	YA4363
16A, 4P 6 modules	100 mA	1	5465	YA4416
25A, 4P 6 modules	100 mA	1	5234	YA4425
32A, 4P 7 modules	100 mA	1	5290	YA4432
40A, 4P 7 modules	100 mA	1	5448	YA4440
63A, 4P 7 modules	100 mA	1	6185	YA4463
16A, 2P 4 modules	300 mA	1	4447	YA2516
25A, 2P 4 modules	300 mA	1	4447	YA2525
32A, 2P 4 modules	300 mA	1	4447	YA2532
40A, 2P 4 modules	300 mA	1	5099	YA2540
63A, 2P 4 modules	300 mA	1	5836	YA2563
16A, 4P 6 modules	300 mA	1	5638	YA4516
25A, 4P 6 modules	300 mA	1	5436	YA4525
32A, 4P 7 modules	300 mA	1	5436	YA4532
40A, 4P 7 modules	300 mA	1	5549	YA4540
63A, 4P 7 modules	300 mA	1	6292	YA4563

YA2463

Over voltage protection

MZ216

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Over voltage release 230VAC, Uc > 280V, 1 module	1	4236	▶ **MZ209**
Over voltage + Low voltage release 230VAC, Uc > 280V, 1 module 60VAC < U < 170VAC, U> 267VAC	1	5690	▶ **MZ215**
Over voltage release 230V AC, U > 275 V AC, 3 phase in 1 module Suitable for 3Ph+N	1	7638	▶ **MZ216**

*Single phase connections need one MZ209/ MZ215 and three phase connections need three MZ209/ MZ215

2 way centre off changeover switches

Characteristics:
- Standard : IEC 60947–1
- Ratings : 25A, 40A & 63A
- No. of Poles : 2P & 4P
- 3 Positions (I–0–II) with centre off
- Utilization category – AC21A
- Mounting on 35mm DIN channel

SFT240N

Double Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
25A, 2 modules	1	2933	▶ **SFT225N**
40A, 2 modules	1	4468	▶ **SFT240N**
63A, 4 modules	1	4741	**SF263**

Four Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 modules	1	7197	▶ **SFT440N**
63A, 8 modules	1	7909	**SF463**

Isolating switches

Characteristics:
- Conforms to IEC 60947-III
- AC22A devices used as switch disconnectors in electrical circuit

Y6463

Double Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 2 modules	6	519	▶ **Y6240**
63A, 2 modules	6	668	▶ **Y6263**

Triple Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 3 modules	4	898	**Y6340**
63A, 3 modules	4	1035	**Y6363**

Four Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 modules	3	1165	▶ **Y6440**
63A, 4 modules	3	1231	▶ **Y6463**

Indicating Lights (LED)

Characteristics:
- Standard : IEC 62094-1
- Light : LED type
- Life : 100,000 burning hours
- Modular design, Fits on 35mm DIN Channel
- Triple Indicators for RYB & ON-OFF-TRIP (RGO) in single module

SVN126

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Green, 1 module	12	1027	▶ **SVN121**
Red, 1 module	12	1027	▶ **SVN122**
Orange, 1 module	12	1027	▶ **SVN123**
Blue, 1 module	12	1027	▶ **SVN124**
Red+Green indicator, 1 module	12	1325	**SVN126**
Red+Green+Orange indicator, 1 module	12	1458	▶ **SVN129**
Red+Orange+Blue (RYB) indicator, 1 module	12	1919	▶ **SVN222**

SPN ACCLs
Characteristics:
- IEC 60947 - 3, IEC 60947 - 6
- SPN Modular
- Voltage: 150VAC to 300VAC
- 6000 Operations

- Blinking LED for overload and permanent LED for overload Trip
- Different LED colors for clear differentiation between functions

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Mains 30A, Genset 1.5A	1	2446	▶ EKS301B
Mains 30A, Genset 2.5A	1	2446	▶ EKS302B
Mains 30A, Genset 3A	1	2446	▶ EKS303B
Mains 30A, Genset 4A	1	2446	▶ EKS304B
Mains 30A, Genset 5A	1	2446	▶ EKS305B
Mains 30A, Genset 6A	1	2446	▶ EKS306B
Mains 30A, Genset 9A	1	2446	▶ EKS309B
Mains 30A, Genset 12A	1	2446	EKS312B
Mains 30A, Genset 15A	1	2446	EKS315B
Mains 30A, Genset 20A	1	2446	▶ EKS320B
Mains 30A, Genset 30A (Without Current Limiting)	1	2446	▶ EKS330B

EKS301B

TPN ACCLs
Characteristics:
- IEC 60947 - 6
- TPN / TPN & TPN / SPN
- Voltage: 150VAC to 300VAC

- 10000 Operations
- Genset Start / Stop as standard

TPN / SPN

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Mains 40A, Genset 6A	1	12618	EKT406SG
Mains 40A, Genset 10A	1	12618	EKT410SG
Mains 40A, Genset 16A	1	12618	EKT416SG
Mains 40A, Genset 20A	1	12618	EKT420SG
Mains 40A, Genset 25A	1	12618	EKT425SG
Mains 40A, Genset 30A	1	12618	EKT430SG
Mains 63A, Genset 6A	1	18624	EKT606SG
Mains 63A, Genset 10A	1	18624	EKT610SG
Mains 63A, Genset 16A	1	18624	EKT616SG
Mains 63A, Genset 20A	1	18624	EKT620SG
Mains 63A, Genset 25A	1	18624	EKT625SG
Mains 63A, Genset 30A	1	18624	EKT630SG
Mains 63A, Genset 40A	1	18624	EKT640SG

EKT406SG

TPN / TPN

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Mains 40A, Genset 6A	1	13217	EKT406TG
Mains 40A, Genset 10A	1	13217	EKT410TG
Mains 40A, Genset 16A	1	13217	EKT416TG
Mains 40A, Genset 20A	1	13217	EKT420TG
Mains 40A, Genset 25A	1	13217	EKT425TG
Mains 40A, Genset 30A	1	13217	EKT430TG
Mains 63A, Genset 6A	1	19224	EKT606TG
Mains 63A, Genset 10A	1	19224	EKT610TG
Mains 63A, Genset 16A	1	19224	EKT616TG
Mains 63A, Genset 20A	1	19224	EKT620TG
Mains 63A, Genset 25A	1	19224	EKT625TG
Mains 63A, Genset 30A	1	19224	EKT630TG

TPN / TPN (without current limiting)

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Mains 40A, Genset 40A	1	13217	▶ EKT440TG
Mains 63A, Genset 63A	1	31831	▶ EKT663TG

Characteristics:
- Complies with IEC 60947-2
- Poles: 3 pole and 4 poles
- Thermal Magnetic units
- Calibrated at 50°C

- Frequency: 50Hz
- Current Limiting type (Cat A)
- Breaking Capacity: 18, 25, 40 kA
- Isolation marking
- Complete range of accessories
- International Certification and approvals

X160 frame MCCB
fixed overload, fixed short circuit
breaking capacity
Icu : 18kA

HDA125Z

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
32A, 3 pole	1	6773	HDA032Z
40A, 3 pole	1	6773	HDA040Z
50A, 3 pole	1	6773	HDA050Z
63A, 3 pole	1	6773	▶ HDA063Z
80A, 3 pole	1	6773	HDA080Z
100A, 3 pole	1	6773	▶ HDA100Z
125A, 3 pole	1	8385	▶ HDA125Z
160A, 3 pole	1	9051	▶ HDA160Z

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
32A, 4 pole	1	7786	HDA033Z
40A, 4 pole	1	7786	HDA041Z
50A, 4 pole	1	7786	HDA051Z
63A, 4 pole	1	7786	▶ HDA064Z
80A, 4 pole	1	7786	HDA081Z
100A, 4 pole	1	7786	▶ HDA101Z
125A, 4 pole	1	8807	▶ HDA126Z
160A, 4 pole	1	9580	▶ HDA161Z

X160 frame MCCB
fixed overload, fixed short circuit
breaking capacity
Icu : 25kA

HHA125Z

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
32A, 3 pole	1	8398	HHA032Z
40A, 3 pole	1	8398	HHA040Z
50A, 3 pole	1	8398	HHA050Z
63A, 3 pole	1	8398	▶ HHA063Z
80A, 3 pole	1	8398	HHA080Z
100A, 3 pole	1	8398	▶ HHA100Z
125A, 3 pole	1	11329	▶ HHA125Z
160A, 3 pole	1	14130	▶ HHA160Z

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
32A, 4 pole	1	11453	HHA033Z
40A, 4 pole	1	11453	HHA041Z
50A, 4 pole	1	11453	HHA051Z
63A, 4 pole	1	11453	▶ HHA064Z
80A, 4 pole	1	11453	HHA081Z
100A, 4 pole	1	11453	▶ HHA101Z
125A, 4 pole	1	14646	▶ HHA126Z
160A, 4 pole	1	177770	▶ HHA161Z

X160 frame MCCB
overload adjustable 0.63-0.8-1 x In
short circuit fixed
breaking capacity
Icu : 18kA

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 3 pole	1	7625	**HDA040U**
63A, 3 pole	1	7625	▶ **HDA063U**
80A, 3 pole	1	7625	**HDA080U**
100A, 3 pole	1	7625	▶ **HDA100U**
125A, 3 pole	1	9070	▶ **HDA125U**
160A, 3 pole	1	10507	▶ **HDA160U**

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 pole	1	9981	**HDA041U**
63A, 4 pole	1	9981	▶ **HDA064U**
80A, 4 pole	1	9981	**HDA081U**
100A, 4 pole	1	9981	▶ **HDA101U**
125A, 4 pole	1	10583	▶ **HDA126U**
160A, 4 pole	1	11777	▶ **HDA161U**

HDA161U

X160 frame MCCB
overload adjustable 0.63-0.8-1 x In
short circuit fixed
breaking capacity
Icu : 25kA

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 3 pole	1	9580	**HHA040U**
63A, 3 pole	1	9580	▶ **HHA063U**
80A, 3 pole	1	9580	**HHA080U**
100A, 3 pole	1	9580	▶ **HHA100U**
125A, 3 pole	1	11677	▶ **HHA125U**
160A, 3 pole	1	14373	▶ **HHA160U**

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 pole	1	12947	**HHA041U**
63A, 4 pole	1	12947	▶ **HHA064U**
80A, 4 pole	1	12947	**HHA081U**
100A, 4 pole	1	12947	▶ **HHA101U**
125A, 4 pole	1	15232	▶ **HHA126U**
160A, 4 pole	1	18630	▶ **HHA161U**

HHA161U

X160 frame MCCB
overload adjustable 0.63-0.8-1 x In
short circuit fixed
breaking capacity
Icu : 40kA

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 3 pole	1	11851	**HNA040U**
63A, 3 pole	1	11851	**HNA063U**
80A, 3 pole	1	11851	**HNA080U**
100A, 3 pole	1	11851	▶ **HNA100U**
125A, 3 pole	1	14205	▶ **HNA125U**
160A, 3 pole	1	17770	▶ **HNA160U**

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 pole	1	15742	**HNA041U**
63A, 4 pole	1	15742	**HNA064U**
80A, 4 pole	1	15742	**HNA081U**
100A, 4 pole	1	15742	▶ **HNA101U**
125A, 4 pole	1	17074	▶ **HNA126U**
160A, 4 pole	1	20324	▶ **HNA161U**

HNA126U

**X250 frame MCCB
fixed overload,
fixed short circuit**
Icu : 25kA

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
200A, 3 pole	1	17347	▶ **HHB200Z**
250A, 3 pole	1	21667	▶ **HHB250Z**
200A, 4 pole	1	18038	▶ **HHB201Z**
250A, 4 pole	1	23553	▶ **HHB251Z**

**Over load adjustable 0.63-0.8-1 x In
X250 frame MCCB
short circuit adjustable
6-8-10-13 x In (100-200A)
5-7-9-11 x In (250A)**
Icu : 40kA

HNB100U

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
100A, 3 pole	1	13208	**HNB100U**
125A, 3 pole	1	14726	**HNB125U**
160A, 3 pole	1	19477	▶ **HNB160U**
200A, 3 pole	1	20671	▶ **HNB200U**
250A, 3 pole	1	27849	**HNB250U**
100A, 4 pole	1	16925	**HNB101U**
125A, 4 pole	1	17779	**HNB126U**
160A, 4 pole	1	22414	▶ **HNB161U**
200A, 4 pole	1	29959	▶ **HNB201U**
250A, 4 pole	1	33512	**HNB251U**

MCCBs Accessories

X160 Frame MCCB

HXA021H

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Auxiliary Contact	1	1509	▶ **HXA021H**
Alarm Contact	1	1531	▶ **HXA024H**
Shunt 24V DC	1	3160	**HXA001H**
Shunt 230V AC	1	3160	**HXA004H**
UnderVoltage - 240V AC	1	3809	**HXA014H**
UnderVoltage - 415V AC	1	3809	▶ **HXA015H**
Direct Rotary Handle	1	1914	**HXA030H**
Extended Rotary Handle	1	2689	▶ **HXA031H**
Spreaders - 3P	1	735	▶ **HYA014H**
Speaders - 4P	1	987	▶ **HYA015H**
Phase barriers - 3P / 4P	1	277	▶ **HYB019H**
DIN Rail Adaptor	1	543	**HYA033H**

x250 Frame MCCB

HXA014H

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Auxiliary Contact	1	1509	▶ **HXA021H**
Alarm Contact	1	1531	▶ **HXA024H**
Shunt 24V DC	1	3160	**HXA001H**
Shunt 230V AC	1	3160	**HXA004H**
UnderVoltage - 240V AC	1	3809	**HXA014H**
UnderVoltage - 415V AC	1	3809	▶ **HXA015H**
Direct Rotary Handle	1	2014	**HXB030H**
Extended Rotary Handle	1	3000	▶ **HXB031H**
Motor Operator 240VAC	1	30929	▶ **HXB042H**
Spreaders - 3P	1	842	**HYB011H**
Speaders - 4P	1	1146	▶ **HYB012H**
Phase barriers - 3P / 4P	1	277	▶ **HYB019H**

:hager

Electromechanical time switches

Characteristics:
- Standard: IEC 60730
- Programming by captive segments
- Battery reserve of 200 hrs.

- Manual over ride function
- Sealing of cover to avoid unwanted modifications

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Quartz 1 channel 1 daily dial 1 module	1		**EH011**
Quartz 1 channel 1 daily dial 3 modules	1	* price on request	**EH111**
Quartz 1 channel 1 daily dial	1		**EH711**
Quartz 1 channel weekly dial	1		**EH771**

EH711

Movement and presence detectors-ceiling mounted

Characteristics:
- To automatically switch on-off loads based upon human presence

Movement detectors
Inbuilt ambient light sensor with adjustable lux level 5 to 1000 lux adjustable time delay upto 15 mins

Presence detectors
Inbuilt ambient light sensor with adjustable lux level 5 to 1200 lux adjustable time delay upto 1 Hr

Movement detectors

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Single lens, 360 deg., 6m dia detection 10A AC 1, 1 channel, surface mounted	1	4780	▶**EE804A**
Single lens, 360 deg., 6m dia detection 10A AC 1, 1 channel, flush mounted	1	4780	▶**EE805A**

insysta™ 6AX switches

Description	Module size	Cat. Ref.	Unit MRP (₹)
1 way glossy white	1	**WSNSW11**	165
1 way glossy white with LED	1	**WSNSL11**	261
1 way anthracite	1	**WSNSW11A**	201
1 way anthracite with LED	1	**WSNSL11A**	312
2 way glossy white	1	**WSNSW21**	235
2 way anthracite	1	**WSNSW21A**	279

WSNSW11

insysta™ 10AX switches

Description	Module size	Cat. Ref.	Unit MRP (₹)
1 way glossy white	1	**WSNSW31**	205
1 way anthracite	1	**WSNSW31A**	249

WSNSW31

insysta™ 16AX switches

Description	Module size	Cat. Ref.	Unit MRP (₹)
1 way glossy white	1	**WSNSW51**	311
1 way glossy white with LED	1	**WSNSL51**	296
1 way anthracite	1	**WSNSW51A**	336
1 way anthracite with LED	1	**WSNSL51A**	359
2 way glossy white	1	**WSNSW61**	335
2 way anthracite	1	**WSNSW61A**	404

WSNSW61

insysta™ 20AX switches

Description	Module size	Cat. Ref.	Unit MRP (₹)
1 way glossy white	1	**WSNSW71**	301
1 way glossy white with LED	1	**WSNSL71**	325
1 way anthracite	1	**WSNSW71A**	364
1 way anthracite with LED	1	**WSNSL71A**	385

WSNSL71

insysta™ 20A / 32A Double Pole switches with LED

Description	Module size	Cat. Ref.	Unit MRP (₹)
20A DP 1 way glossy white	2	**WSNSW81**	660
20A DP 1 way anthracite	2	**WSNSL81A**	789
32A DP 1 way glossy white	2	**WSNSW92**	932
32A DP 1 way anthracite	2	**WSNSL92A**	1120

WSNSW81

insysta™ 25A motor starter switches

Description	Module size	Cat. Ref.	Unit MRP (₹)
glossy white	3	**WSNMS12**	763
anthracite	3	**WSNMS12A**	915

WSNMS12

insysta™ Push button

WSNBP11

Description	Module size	Cat. Ref.	Unit MRP (₹)
6A glossy white	1	**WSNBP11**	239
6A glossy white with Indicator	1	**WSNBP21**	325
6A glossy white	2	**WSNBP12**	346
6A glossy white with Indicator	2	**WSNBP22**	415
6A anthracite	1	**WSNBP11A**	290
6A anthracite with Indicator	1	**WSNBP21A**	385
6A anthracite	2	**WSNBP12A**	415
6A anthracite with Indicator	2	**WSNBP22A**	505

insysta™ Sockets

WSNSK42

Description	Module size	Cat. Ref.	Unit MRP (₹)
6 / 16A glossy white Protruded	2	**WSNSK42**	401
6 / 16A glossy white	3	**WSNSK53**	487
6 / 16A anthracite Protruded	2	**WSNSK42A**	482
6 / 16A anthracite	3	**WSNSK53A**	601
6A Indian socket glossy white	2	**WSNSK72**	291
6A Indian socket anthracite	2	**WSNSK72A**	386

insysta™ Regulators & dimmers

WSNFC22

Description	Module size	Cat. Ref.	Unit MRP (₹)
100W glossy white fan regulator	1	**WSNFC11**	826
120W glossy white fan regulator	2	**WSNFC22**	1109
400W glossy white incandescent rotary dimmer	1	**WSNDM11**	1009
1000W glossy white incandescent rotary dimmer	2	**WSNDM22**	1997
100W anthracite fan regulator	1	**WSNFC11A**	971
120W anthracite fan regulator	2	**WSNFC22A**	1327
400W anthracite incandescent rotary dimmer	1	**WSNDM11A**	1198
1000W anthracite incandescent rotary dimmer	2	**WSNDM22A**	2399

insysta™ Data sockets

WSNDS11

Description	Module size	Cat. Ref.	Unit MRP (₹)
glossy white RJ11 single	1	**WSNDS11**	258
glossy white RJ11 twin	1	**WSNDS21**	360
glossy white RJ45 cat 5e	1	**WSNDS31**	656
glossy white RJ45 cat 6	1	**WSNDS41**	760
anthracite RJ11 single	1	**WSNDS11A**	319
anthracite RJ11 twin	1	**WSNDS21A**	430
anthracite RJ45 cat 5e	1	**WSNDS31A**	792
anthracite RJ45 cat 6	1	**WSNDS41A**	910

insysta™ VDI module & accessories

WSNDT11

WSNDT31

Description	Module size	Cat. Ref.	Unit MRP (₹)
glossy white HDMI Port	1	**WSNDT21**	1896
glossy white 3x female RCA AV Connector	1	**WSNDT31**	2554
glossy white female HD VGA 15AV Connector	1	**WSNDT42**	3288
glossy white Co-Axial TV socket	1	**WSNDT11**	207
glossy white cord outlet	1	**WSNDS71**	283
glossy white blanking plate	1	**WSNBK11**	50
anthracite HDMI Port	1	**WSNDT21A**	2274
anthracite 3x female RCA AV Connector	1	**WSNDT31A**	3002
anthracite female HD VGA 15AV Connector	1	**WSNDT42A**	3871
anthracite Co-Axial TV socket	1	**WSNDT11A**	259
anthracite cord outlet	1	**WSNDS71A**	342
anthracite blanking plate	1	**WSNBK11A**	58

WSNDS51

insysta™ USB sockets

Description	Module size	Cat. Ref.	Unit MRP (₹)
glossy white USB Port	1	**WSNDS51**	1519
anthracite USB Port	1	**WSNDS51A**	1818
2A glossy white USB charger	1	**WSNDS61**	2704
2A anthracite USB charger	1	**WSNDS61A**	3071

WSNHS22

WSNHS12

WSNHS62

insysta™ Hospitality range

Description	Module size	Cat. Ref.	Unit MRP (₹)
DND / MMR			
glossy white external DND/MMR with door bell switch & light indicator for DND/MMR	2	**WSNHS12**	1763
glossy white internal DND/MMR control & light indicator for DND/MMR	2	**WSNHS22**	1293
anthracite external DND/MMR with door bell switch & light indicator DND/MMR	2	**WSNHS12A**	2116
anthracite internal DND/MMR control & light indicator for DND/MMR	2	**WSNHS22A**	1550
Hotel card unit			
glossy white hotel key card	3	**WSNHS32**	4443
anthracite hotel key card	3	**WSNHS32A**	5399
Shaver socket			
glossy white shaver socket	4	**WSNHS44**	5289
anthracite shaver socket	4	**WSNHS44A**	6347
Skirting light			
glossy white skirting light with white LED	2	**WSNHS52**	917
anthracite skirting light with white LED	2	**WSNHS52A**	1130
Buzzer			
glossy white buzzer	2	**WSNHS62**	1175
anthracite buzzer	2	**WSNHS62A**	1410
Volume controller			
glossy white volume controller	2	**WSNHS72**	1519
anthracite volume controller	2	**WSNHS72A**	1690

WSNCG1

insysta™ Cover plates - Plastic

Pack qty.	Module size	Glossy white		Anthracite		Aluminium	
		Cat. Ref.	Unit MRP (₹)	Cat. Ref.	Unit MRP (₹)	Cat. Ref.	Unit MRP (₹)
15	1	**WSNCG1**	158	**WSNCG1A**	290	**WSNCG1S**	284
15	2	**WSNCG2**	165	**WSNCG2A**	308	**WSNCG2S**	301
10	3	**WSNCG3**	188	**WSNCG3A**	323	**WSNCG3S**	327
10	4	**WSNCG4**	193	**WSNCG4A**	374	**WSNCG4S**	369
5	6	**WSNCG6**	358	**WSNCG6A**	615	**WSNCG6S**	622
5	8	**WSNCG8**	424	**WSNCG8A**	682	**WSNCG8S**	662
5	8	**WSNCGS8**	504	**WSNCGS8A**	892	**WSNCGS8S**	874
5	12	**WSNCG12**	640	**WSNCG12A**	1158	**WSNCG12S**	1135
5	18	**WSNCG18**	867	**WSNCG18A**	1528	**WSNCG18S**	1496

WSNCG1GW

insysta™ Cover plates - Real material

Pack qty.	Module size	White glass		Black glass	
		Cat. Ref.	Unit MRP (₹)	Cat. Ref.	Unit MRP (₹)
1	1	**WSNCG1GW**	2013	**WSNCG1GB**	2079
1	2	**WSNCG2GW**	2262	**WSNCG2GB**	2327
1	3	**WSNCG3GW**	2872	**WSNCG3GB**	2936
1	4	**WSNCG4GW**	2960	**WSNCG4GB**	3020
1	6	**WSNCG6GW**	4152	**WSNCG6GB**	4216
1	8	**WSNCG8GW**	4973	**WSNCG8GB**	4894
1	8	**WSNCGS8GW**	4960	**WSNCGS8GB**	5020
1	12	**WSNCG12GW**	5594	**WSNCG12GB**	5661

insysta™ Grid plates - Real material

WSNG3

Description	Pack qty.	Module size	Cat. Ref.	Unit MRP (₹)
Grid Plate - 1 module	1	1	**WSNG1**	98
Grid Plate - 2 module	1	2	**WSNG2**	98
Grid Plate - 3 module	1	3	**WSNG3**	109
Grid Plate - 4 module	1	4	**WSNG4**	144
Grid Plate - 6 module	1	6	**WSNG6**	196
Grid Plate - 8 module (Horizontal)	1	8	**WSNG8**	241
Grid Plate - 8 module (Square)	1	8	**WSNG8S**	253
Grid Plate - 12 module	1	12	**WSNG12**	364

insysta™ Wall boxes

WSNMB3

Description	Pack qty.	Module size	Cat. Ref.	Unit MRP (₹)
Metal Mounting Boxes 1 & 2	60	2	**WSNMB2**	122
Metal Mounting Boxes 3 module	45	3	**WSNMB3**	122
Metal Mounting Boxes 4 module	30	4	**WSNMB4**	160
Metal Mounting Boxes 6 module	20	6	**WSNMB6**	252
Metal Mounting Boxes 8 module (Horizontal)	15	8	**WSNMB8H**	297
Metal Mounting Boxes 8 module (Square)	24	8	**WSNMB8R**	297
Metal Mounting Boxes 12 module	16	12	**WSNMB12**	448
Metal Mounting Boxes 18 module	10	18	**WSNMB18**	566

Single Door
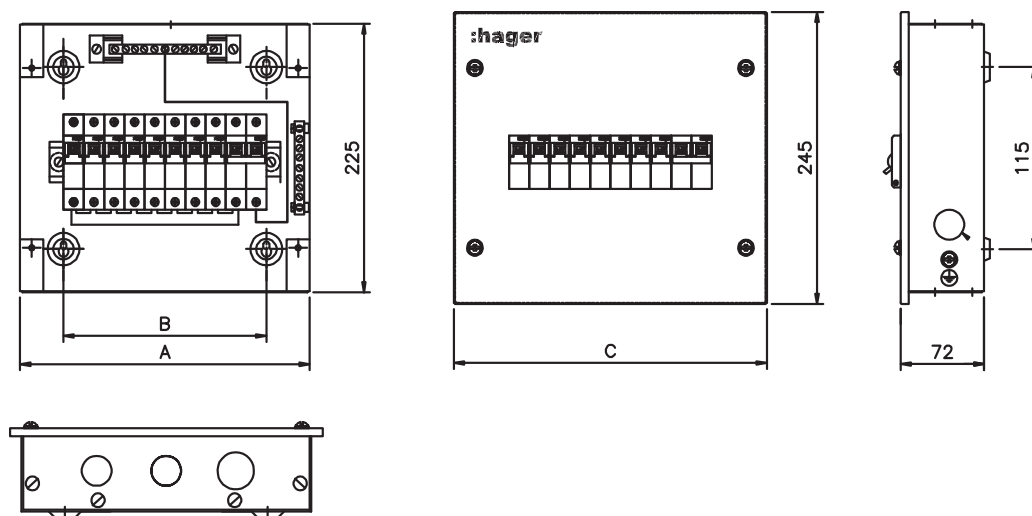
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4	Y81041	140	65	160	1 NO	1 NO	1 NO	1 NO
6	Y81061	175	100	195	1 NO	1 NO	1 NO	1 NO
8	Y81081	210	135	230	1 NO	2 NOS	1 NO	1 NO
12	Y81121	285	210	305	1 NO	3 NOS	1 NO	1 NO
16	Y81161	365	290	385	1 NO	4 NOS	1 NO	1 NO

Double Door
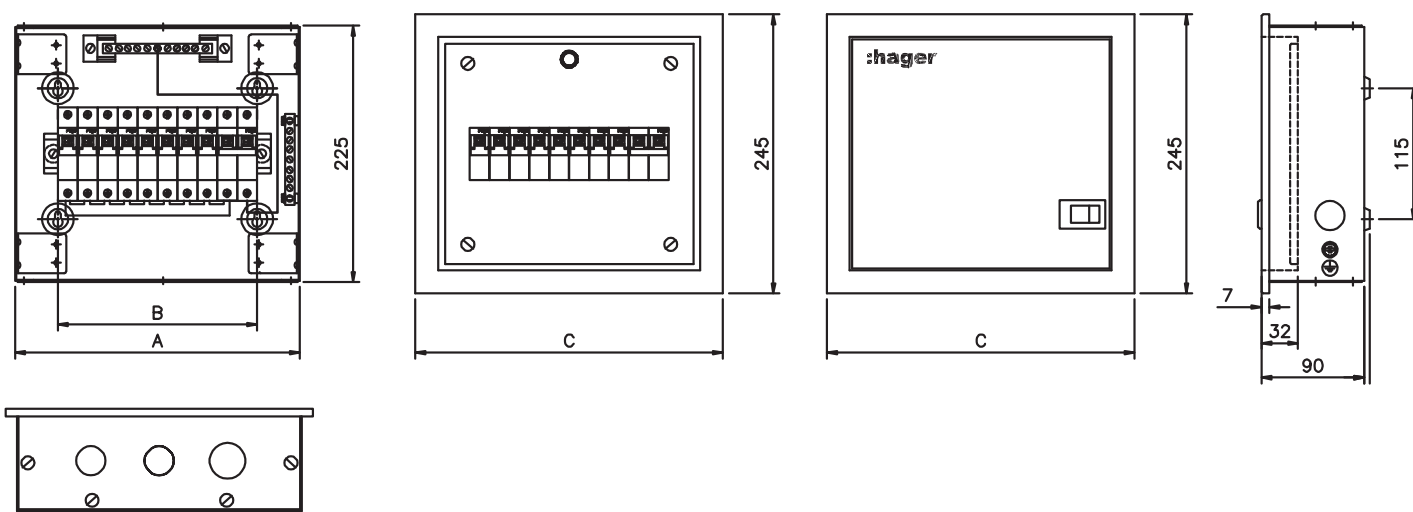
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4	Y81042	140	65	160	1 NO	1 NO	1 NO	1 NO
6	Y81062	175	100	195	1 NO	1 NO	1 NO	1 NO
8	Y81082	210	135	230	1 NO	2 NOS	1 NO	1 NO
12	Y81122	285	210	305	1 NO	3 NOS	1 NO	1 NO
16	Y81162	365	290	385	1 NO	4 NOS	1 NO	1 NO

Single Door
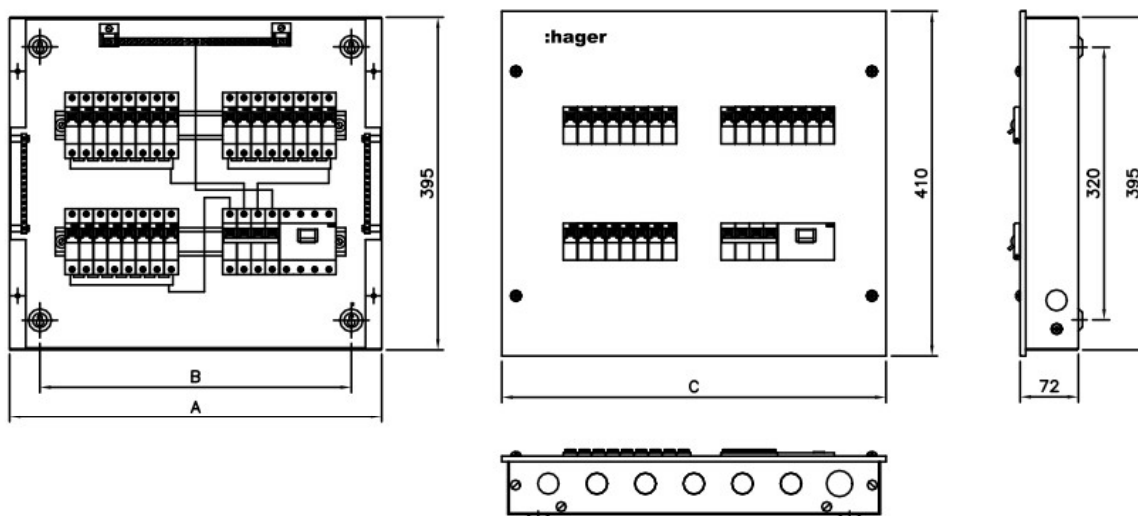
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4	Y82041	330	255	350	1 NO	4 NOS	1 NO	1 NO
6	Y82061	365	290	385	1 NO	4 NOS	1 NO	1 NO
8	Y82081	460	385	480	1 NO	6 NOS	1 NO	1 NO
12	Y82121	600	525	620	1 NO	8 NOS	1 NO	1 NO

Double Door

WAY	DB CODE	A	B	C	⌀32,K'OUT TOP & BOTTOM	⌀26,K'OUT TOP & BOTTOM	SIDE K'OUT LH	RH
4	Y82043	280	205	300	1 NO	4 NOS	1 NO	1 NO
4	Y82042	330	255	350	1 NO	4 NOS	1 NO	1 NO
6	Y82062	365	290	385	1 NO	4 NOS	1 NO	1 NO
8	Y82082	460	385	480	1 NO	6 NOS	1 NO	1 NO
12	Y82122	600	525	620	1 NO	8 NOS	1 NO	1 NO
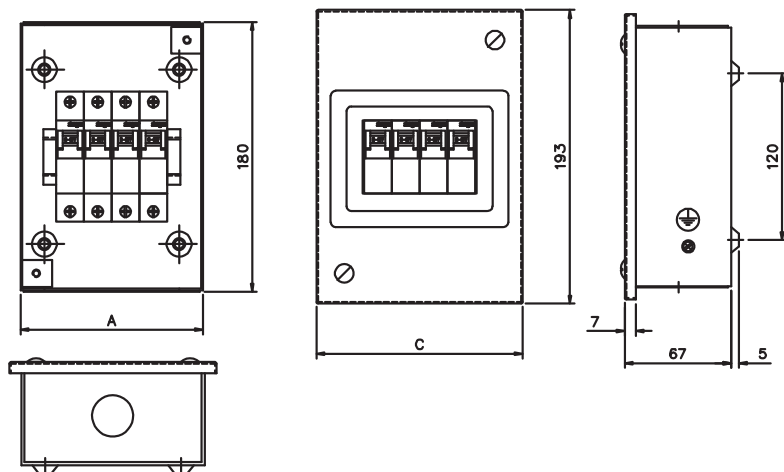
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2 WAY	Y83021	85	45	100
4 WAY	Y83041	120	80	135

Metal Plug & Socket
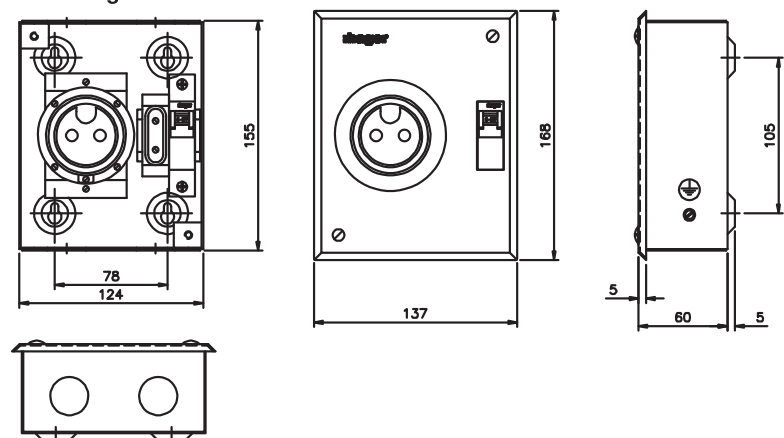
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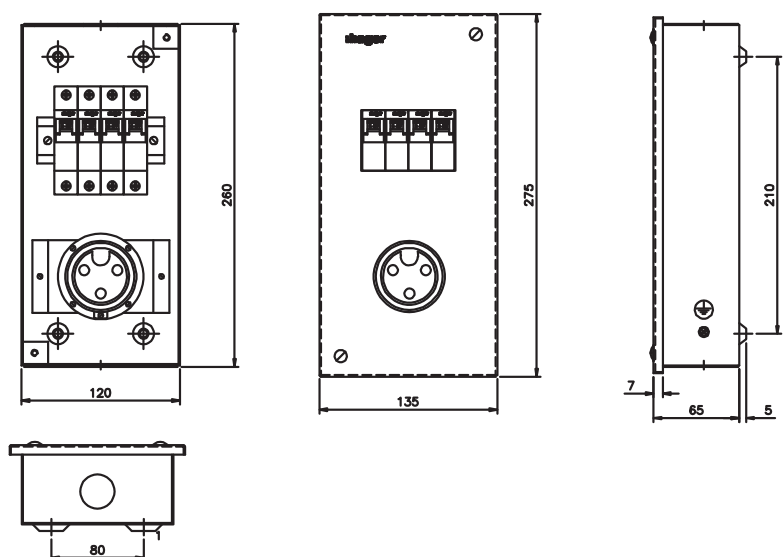
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Y84420/Y84432

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S.No.	Items	Load/Wattage	MCB rating
1	Fan	60W	*
2	Lamp, Tubelight	40W	*
3	Room Heater	200W	1 A
4	Water Heater 8 ltrs 15 ltrs 60 ltrs	1200-2000W 3000-4000W 4000-6000W	10 A 20 A 32 A
5	Immersion Heater	1000W	6 A
6	Hot Plate-single	1000W	6 A
7	Iron-Nonautomatic Automatic	500W 1000W	3 A 6 A
8	Mixer / Juicer	300W	2 A
9	TV / VCR / VCP	200W	1 A
10	Music system	200W	1 A
11	Refrigerator 165 ltrs 285 ltrs 350 ltrs	400W 600W 750W	3 A 4 A 6 A
12	Toaster	500W	3 A
13	Vacuum Cleaner	400W	3 A
14	Washing Machine without heater with heater	300-1300W 5000-6300W	10 A 32 A
15	Water Cooler	700W	6 A
16	Desert Cooler	300W	2 A
17	Oven	750W	6 A
18	Electric Kettle	1500W	7.5 A
19	Air Conditioner 1 ton 1.5 ton 2 ton	1000W 1500W 2000W	10 A 16 A 16 A
20	Hair Dryer	1000W	7.5 A
21	Microwave	800W	6 A

Formula for Calculations :

Incomer Rating :   Single Phase = $\dfrac{\text{Total Load in Watts}}{230 \text{ volts x cos } \varnothing}$

Three Phase = $\dfrac{\text{Total Load in Watts}}{\sqrt{3} \text{ x 415 volts x cos } \varnothing}$

* The given data is only for guidance and may vary for different manufacturers.

Cable Size	Conduit Size and Gauge			
Nominal Conductor Size mm²	16mm or 5/8"	20mm or 3/4"	25mm or 1"	32mm or 1¼"
	Number of Cables (maximum)			
1.0	6	7	19	30
1.5	5	5	15	24
2.5	3	4	11	17
4	2	3	8	13
6	2	2	6	10
10	-	-	4	6
16	-	-	3	4
25	-	-	2	3
35	-	-	-	2
50	-	-	-	-

* The given data is only for guidance and may vary for different manufacturers.

Cable selection chart

Single core cable (Flexible) voltage grade 1100 V, conforming to IS : 694-1990

Nominal area of conductor	Current carrying capacity as per IS:3961	Max. Resistance per km. at 20°C
Sq. mm.	Amp.	Ohms
1.0	11	19.50
1.5	14	13.30
2.5	19	7.98
4.0	26	4.95
6.0	31	3.30
10	42	1.91
16	57	1.21
25	71	0.78

* The given data is only for guidance and may vary for different manufacturers.

Permanent over voltage is a common problem faced by users due to external or internal factors. Over voltage is caused due to following:

- Over voltage from electricity board

- Loss of neutral or loose neutral wire termination

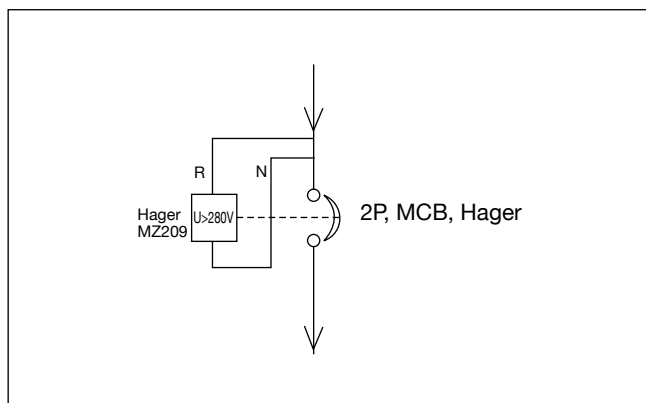- Wrong Connection like Interchange of P & N conductors in RYBN wire

- Harmonics

Hager MZ209 continuously monitors the voltage between phase and neutral conductors. As the voltage increases beyond 267VAC (240VAC + 10%), MZ209 immediately disconnects the power supply through the connected MCB thus avoiding the damage to the equipments. This ensures safety both in case of presence and absence of people at home.
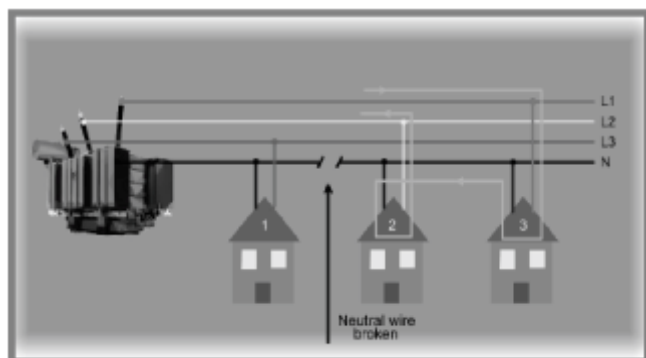
Phase – Phase voltage during loss of neutral

Safety to human and expensive electronic equipments

Connections:

MZ209 is mechanical connected with mcb and does not need any tool for coupling with the MCB. Electrical connections are made with small size wire of 1sqmm from Phase and Neutral conductors in parallel. Phase and Neutral can be connected to either side of MZ209 and only one number per phase is required for protection against over voltage problems.
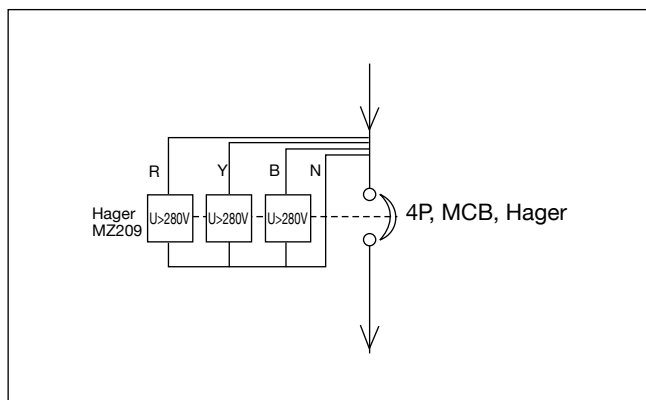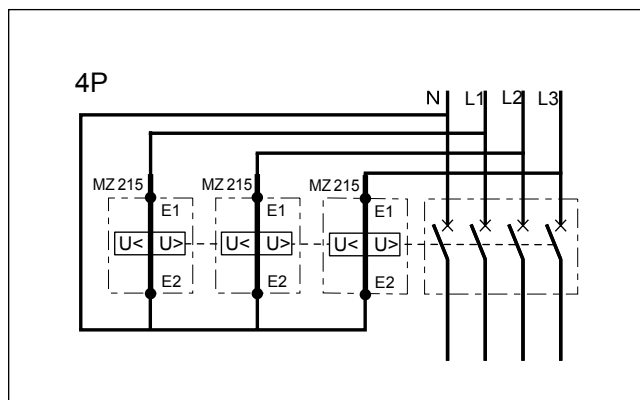
Connections:

MZ215 is the ideal solution to protect equipments from over and low voltage problems. Unique modular design and simple wiring makes it convenient to mount in standard enclosures with Hager MCB, RCCB or RCBO. MZ215 continuously monitors voltage between Phase and Neutral to disconnect when voltage is high or low.

Single Phase connections
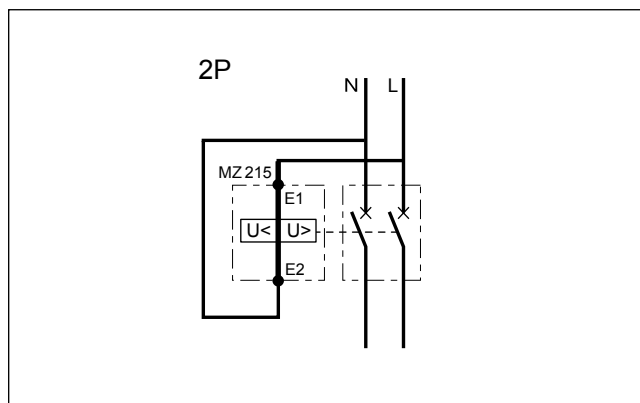
Single Phase connections

Three Phase connections

Three Phase connections

Terms & Conditions

- Price means Maximum Retail Price (M.R.P).
- This price list supercedes all previous price list.
- Price is in Indian Rupees (₹) and inclusive of GST / taxes / duties as applicable.
- Delivery term is "Door Delivery".
- Prices are subject to revision without notice. All dispatch will be as per price prevailing on the date of invoice.
- Enclosures / Distribution Boards have the provision for fixing the component as shown in the photograph.
- For all Insysta Color references and real material, a minimum ordering quantity will be applicable. Please connect with sales representative for details regarding MOQ.
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- Hager and / or manufacturer shall not be liable for any consequential loss, including personal injury or damages arising out of, or in connection with, defects in the Products including claim by third party.
- Proof of purchase to be retained to avail warranty.

* Product development is a continuous process and hence the described content in the pricelist are subject to change without prior notice. Contact your nearest Hager Partner for the latest information.

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