

aptis

Pricelist

with effect from

01st March 2024

MundhraBrothers

:hager

MundhraBrothers

**The reliable
partner for
intelligent
solutions.**

MundhraBrothers

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 € 2.8Bn 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.

ENERGY STORAGE
E3 DC

B. BOCCHIOTTI

B. IBOLCO

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:



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.



Sabine Busse
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,
Sabine Busse

MundhraBrothers

01 Distribution Boards

aptis range



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02 Protection devices

aptis MCBs / aptis RCCBs / aptis RCBOs / Over Voltage Protection



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03 Control & signaling

Changeover Switches / Isolating Switches / Indicating Lights (LED) /
Automatic Changeover and Current Limiter



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04 Protection devices

MCCBs



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05 Energy & lighting control

Time Switches / Movement and Presence Detectors



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06 insysta™ Wiring accessories

Switches / Push button / Sockets / Regulators & dimmers / Data sockets /
VDI module & accessories / USB socket / DND / MMR / Hotel card unit /
Shaver socket / Skirting light / Buzzer / Volume controller /
Cover & grid plates - Plastic / Cover plates - Real material /
Grid plates - Real material / Wall Boxes



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07 Technical information

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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

Single Door DBs

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4 way, 4 modules	1	927	▶ Y81041
6 way, 6 modules	1	1071	▶ Y81061
8 way, 8 modules	1	1298	▶ Y81081
12 way, 12 modules	1	1535	▶ Y81121
16 way, 16 modules	1	1906	▶ Y81161



Y81081

Double Door DBs

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4 way, 4 modules	1	1478	▶ Y81042
6 way, 6 modules	1	1638	▶ Y81062
8 way, 8 modules	1	1839	▶ Y81082
12 way, 12 modules	1	2189	▶ Y81122
16 way, 16 modules	1	2766	▶ 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

Single Door DBs

(Incomer + Outgoing Modules)

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4 way, 8+12 modules	1	2910	Y82041
6 way, 8+18 modules	1	3605	Y82061
8 way, 8+24 modules	1	4233	Y82081
12 way, 8+36 modules	1	6211	Y82121



Y82041

Double Door DBs

(Incomer + Outgoing Modules)

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4 way, 4+12 modules	1	3641	▶ Y82043
4 way, 8+12 modules	1	3760	▶ Y82042
6 way, 8+18 modules	1	4527	▶ Y82062
8 way, 8+24 modules	1	5526	▶ Y82082
12 way, 8+36 modules	1	8168	▶ Y82122



Y82062

One way enclosures

Characteristics:
- IP30 degree of protection



Y83041

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
2 way, 2 modules	1	541	▶ Y83021
4 way, 4 modules	1	571	▶ Y83041
20A 2 Pin + SC*, 2 modules	1	1694	Y84220
20A 3 Pin + SC*, 4 modules	1	2930	Y84420
32A 3 Pin + SC*, 4 modules	1	3404	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	1463	Y84110
20A 2 Pin + SC*, 1 modules	1	1540	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	10439	Y85042
6 Way, 8+18 Modules	1	11129	Y85062
4 Way, 8+12 Modules	1	12082	Y85041
6 Way, 8+18 Modules	1	12365	Y85061
8 Way, 8+24 Modules	1	13112	Y85081
12 Way, 8+36 Modules	1	14724	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	247	Y1106
1P 10A C Curve 6kA	12	247	Y11101
1P 16A C Curve 6kA	12	247	Y11161
1P 20A C Curve 6kA	12	247	Y11201
1P 25A C Curve 6kA	12	247	Y1125
1P 32A C Curve 6kA	12	247	Y1132
1P 40A C Curve 6kA	12	536	Y1140
1P 50A C Curve 6kA	12	613	Y1150
1P 63A C Curve 6kA	12	613	Y1163



Double Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
2P 6A C Curve 6kA	6	814	Y1206
2P 10A C Curve 6kA	6	814	Y1210
2P 16A C Curve 6kA	6	814	Y12161
2P 20A C Curve 6kA	6	814	Y1220
2P 25A C Curve 6kA	6	814	Y1225
2P 32A C Curve 6kA	6	814	Y1232
2P 40A C Curve 6kA	6	1235	Y1240
2P 50A C Curve 6kA	6	1367	Y1250
2P 63A C Curve 6kA	6	1367	Y1263



Triple Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
3P 6A C Curve 6kA	4	1336	Y1306
3P 10A C Curve 6kA	4	1336	Y13101
3P 16A C Curve 6kA	4	1336	Y13161
3P 20A C Curve 6kA	4	1336	Y1320
3P 25A C Curve 6kA	4	1336	Y1325
3P 32A C Curve 6kA	4	1336	Y1332
3P 40A C Curve 6kA	4	1930	Y1340
3P 50A C Curve 6kA	4	2125	Y1350
3P 63A C Curve 6kA	4	2125	Y1363



Four Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4P 6A C Curve 6kA	3	1740	Y1406
4P 10A C Curve 6kA	3	1740	Y14101
4P 16A C Curve 6kA	3	1740	Y14161
4P 20A C Curve 6kA	3	1740	Y1420
4P 25A C Curve 6kA	3	1740	Y1425
4P 32A C Curve 6kA	3	1740	Y1432
4P 40A C Curve 6kA	3	2439	Y1440
4P 50A C Curve 6kA	3	2664	Y1450
4P 63A C Curve 6kA	3	2664	Y1463



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



Y7110

Single Pole

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



Y7220

Double Pole

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



Y7325

Triple Pole

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



Y7410

Four Pole

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	3289	▶ Y5232
2P 25A 100mA	1	3663	▶ Y5242
2P 25A 300mA	1	3689	▶ Y5252
2P 40A 30mA	1	3855	▶ Y5234
2P 40A 100mA	1	4010	▶ Y5244
2P 40A 300mA	1	4336	▶ Y5254
2P 63A 30mA	1	4998	▶ Y5236
2P 63A 100mA	1	5036	▶ Y5246
2P 63A 300mA	1	5116	▶ Y5256



Y5232

Four Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
4P 25A 30mA	1	4687	▶ Y5432
4P 25A 100mA	1	4872	▶ Y5442
4P 25A 300mA	1	4939	▶ Y5452
4P 40A 30mA	1	4453	▶ Y5434
4P 40A 100mA	1	4590	▶ Y5444
4P 40A 300mA	1	4673	▶ Y5454
4P 63A 30mA	1	5136	▶ Y5436
4P 63A 100mA	1	5389	▶ Y5446
4P 63A 300mA	1	5408	▶ 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	3642	YA2316
25A, 2P 4 modules	30 mA	1	3642	YA2325
32A, 2P 4 modules	30 mA	1	3980	YA2332
40A, 2P 4 modules	30 mA	1	4731	YA2340
63A, 2P 4 modules	30 mA	1	5666	YA2363
16A, 2P 4 modules	100 mA	1	4553	YA2416
25A, 2P 4 modules	100 mA	1	4464	YA2425
32A, 2P 4 modules	100 mA	1	4553	YA2432
40A, 2P 4 modules	100 mA	1	5237	YA2440
63A, 2P 4 modules	100 mA	1	6058	YA2463
16A, 4P 6 modules	30 mA	1	5129	YA4316
25A, 4P 6 modules	30 mA	1	5129	YA4325
32A, 4P 7 modules	30 mA	1	5290	YA4332
40A, 4P 7 modules	30 mA	1	5368	YA4340
63A, 4P 7 modules	30 mA	1	6356	YA4363
16A, 4P 6 modules	100 mA	1	5779	YA4416
25A, 4P 6 modules	100 mA	1	5535	YA4425
32A, 4P 7 modules	100 mA	1	5594	YA4432
40A, 4P 7 modules	100 mA	1	5761	YA4440
63A, 4P 7 modules	100 mA	1	6541	YA4463
16A, 2P 4 modules	300 mA	1	4703	YA2516
25A, 2P 4 modules	300 mA	1	4703	YA2525
32A, 2P 4 modules	300 mA	1	4703	YA2532
40A, 2P 4 modules	300 mA	1	5392	YA2540
63A, 2P 4 modules	300 mA	1	6172	YA2563
16A, 4P 6 modules	300 mA	1	5962	YA4516
25A, 4P 6 modules	300 mA	1	5749	YA4525
32A, 4P 7 modules	300 mA	1	5749	YA4532
40A, 4P 7 modules	300 mA	1	5868	YA4540
63A, 4P 7 modules	300 mA	1	6654	YA4563



YA2463

Over voltage protection



MZ216

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Over voltage release 230VAC, Uc > 280V, 1 module	1	4427	▶ MZ209
Over voltage + Low voltage release 230VAC, Uc > 280V, 1 module 60VAC < U < 170VAC, U > 267VAC	1	5946	▶ MZ215
Over voltage release 230V AC, U > 275 V AC, 3 phase in 1 module Suitable for 3Ph+N	1	7982	▶ MZ216

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

2 way centre off changeover switches



SFT240N

Characteristics:

- Standard : IEC 60947-1
- Ratings : 25A, 40A & 63A
- No. of Poles : 2P & 4P

- 3 Positions (I-O-II) with centre off
- Utilization category – AC21A
- Mounting on 35mm DIN channel

Double Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
25A, 2 modules	1	3065	▶ SFT225N
40A, 2 modules	1	4669	▶ SFT240N
63A, 4 modules	1	4954	SF263

Four Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 modules	1	7521	SFT440N
63A, 8 modules	1	8265	SF463

Isolating switches



Y6463

Characteristics:

- Conforms to IEC 60947-III

- AC22A devices used as switch disconnectors in electrical circuit

Double Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 2 modules	6	535	▶ Y6240
63A, 2 modules	6	688	▶ Y6263

Triple Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 3 modules	4	925	Y6340
63A, 3 modules	4	1066	Y6363

Four Pole

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 modules	3	1200	▶ Y6440
63A, 4 modules	3	1268	▶ Y6463

Indicating Lights (LED)



SVN126

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

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Green, 1 module	12	1058	SVN121
Red, 1 module	12	1058	SVN122
Orange, 1 module	12	1058	SVN123
Blue, 1 module	12	1058	SVN124
Red+Green indicator, 1 module	12	1365	SVN126
Red+Green+Orange indicator, 1 module	12	1502	SVN129
Red+Orange+Blue (RYB) indicator, 1 module	12	1977	SVN222

SPN - Automatic changeover and current limiter

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	2556	▶ EKS301B
Mains 30A, Genset 2.5A	1	2556	▶ EKS302B
Mains 30A, Genset 3A	1	2556	▶ EKS303B
Mains 30A, Genset 4A	1	2556	EKS304B
Mains 30A, Genset 5A	1	2556	▶ EKS305B
Mains 30A, Genset 6A	1	2556	▶ EKS306B
Mains 30A, Genset 9A	1	2556	▶ EKS309B
Mains 30A, Genset 12A	1	2556	EKS312B
Mains 30A, Genset 15A	1	2556	EKS315B
Mains 30A, Genset 20A	1	2556	▶ EKS320B
Mains 30A, Genset 30A (without current limiting)	1	2556	▶ EKS330B



EKS301B

TPN - Automatic Changeover and Current Limiter

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	13186	EKT406SG
Mains 40A, Genset 10A	1	13186	EKT410SG
Mains 40A, Genset 16A	1	13186	EKT416SG
Mains 40A, Genset 20A	1	13186	EKT420SG
Mains 40A, Genset 25A	1	13186	EKT425SG
Mains 40A, Genset 30A	1	13186	EKT430SG
Mains 63A, Genset 6A	1	19462	EKT606SG
Mains 63A, Genset 10A	1	19462	EKT610SG
Mains 63A, Genset 16A	1	19462	EKT616SG
Mains 63A, Genset 20A	1	19462	EKT620SG
Mains 63A, Genset 25A	1	19462	EKT625SG
Mains 63A, Genset 30A	1	19462	EKT630SG
Mains 63A, Genset 40A	1	19462	EKT640SG



EKT406SG

TPN / TPN

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Mains 40A, Genset 6A	1	13812	EKT406TG
Mains 40A, Genset 10A	1	13812	EKT410TG
Mains 40A, Genset 16A	1	13812	EKT416TG
Mains 40A, Genset 20A	1	13812	EKT420TG
Mains 40A, Genset 25A	1	13812	EKT425TG
Mains 40A, Genset 30A	1	13812	EKT430TG
Mains 63A, Genset 6A	1	20089	EKT606TG
Mains 63A, Genset 10A	1	20089	EKT610TG
Mains 63A, Genset 16A	1	20089	EKT616TG
Mains 63A, Genset 20A	1	20089	EKT620TG
Mains 63A, Genset 25A	1	20089	EKT625TG
Mains 63A, Genset 30A	1	20089	EKT630TG
Mains 63A, Genset 40A	1	20089	EKT640TG

TPN / TPN

(without current limiting)

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Mains 40A, Genset 40A	1	13812	▶ EKT440TG
Mains 63A, Genset 63A	1	33263	▶ EKT663TG

*80/80A and 100/100A ACCL also available upon request

Characteristics:

- Complies with IEC 60947-2
- Poles: 3 pole and 4 poles
- Thermal Magnetic
- 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	6942	HDA032Z
40A, 3 pole	1	6942	HDA040Z
63A, 3 pole	1	6942	▶ HDA063Z
80A, 3 pole	1	6942	HDA080Z
100A, 3 pole	1	6942	▶ HDA100Z
125A, 3 pole	1	8595	▶ HDA125Z
160A, 3 pole	1	9277	▶ HDA160Z

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
32A, 4 pole	1	7981	HDA033Z
40A, 4 pole	1	7981	HDA041Z
50A, 4 pole	1	7981	HDA051Z
63A, 4 pole	1	7981	▶ HDA064Z
80A, 4 pole	1	7981	HDA081Z
100A, 4 pole	1	7981	▶ HDA101Z
125A, 4 pole	1	9027	▶ HDA126Z
160A, 4 pole	1	9820	▶ 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	8608	HHA032Z
40A, 3 pole	1	8608	HHA040Z
63A, 3 pole	1	8608	▶ HHA063Z
80A, 3 pole	1	8608	HHA080Z
100A, 3 pole	1	8608	▶ HHA100Z
125A, 3 pole	1	11612	▶ HHA125Z
160A, 3 pole	1	14483	▶ HHA160Z

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
32A, 4 pole	1	11739	HHA033Z
40A, 4 pole	1	11739	HHA041Z
63A, 4 pole	1	11739	▶ HHA064Z
80A, 4 pole	1	11739	HHA081Z
100A, 4 pole	1	11739	▶ HHA101Z
125A, 4 pole	1	15012	▶ HHA126Z
160A, 4 pole	1	18214	▶ 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	7816	HDA040U
63A, 3 pole	1	7816	▶ HDA063U
80A, 3 pole	1	7816	HDA080U
100A, 3 pole	1	7816	▶ HDA100U
125A, 3 pole	1	9297	▶ HDA125U
160A, 3 pole	1	10770	▶ HDA160U



HDA161U

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 pole	1	10231	HDA041U
63A, 4 pole	1	10231	▶ HDA064U
80A, 4 pole	1	10231	HDA081U
100A, 4 pole	1	10231	▶ HDA101U
125A, 4 pole	1	10848	▶ HDA126U
160A, 4 pole	1	12071	▶ 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	9820	HHA040U
63A, 3 pole	1	9820	▶ HHA063U
80A, 3 pole	1	9820	HHA080U
100A, 3 pole	1	9820	▶ HHA100U
125A, 3 pole	1	11969	▶ HHA125U
160A, 3 pole	1	14732	▶ HHA160U



HHA161U

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 pole	1	13271	HHA041U
63A, 4 pole	1	13271	▶ HHA064U
80A, 4 pole	1	13271	HHA081U
100A, 4 pole	1	13271	▶ HHA101U
125A, 4 pole	1	15613	▶ HHA126U
160A, 4 pole	1	19096	▶ 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	12147	HNA040U
63A, 3 pole	1	12147	HNA063U
80A, 3 pole	1	12147	HNA080U
100A, 3 pole	1	12147	▶ HNA100U
125A, 3 pole	1	14560	▶ HNA125U
160A, 3 pole	1	18214	▶ HNA160U



HNA126U

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
40A, 4 pole	1	16136	HNA041U
63A, 4 pole	1	16136	HNA064U
80A, 4 pole	1	16136	HNA081U
100A, 4 pole	1	16136	▶ HNA101U
125A, 4 pole	1	17501	▶ HNA126U
160A, 4 pole	1	20832	▶ HNA161U



HNB100U

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

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
200A, 3 pole	1	17781	▶ HHB200Z
250A, 3 pole	1	22209	▶ HHB250Z
200A, 4 pole	1	18489	▶ HHB201Z
250A, 4 pole	1	24142	▶ 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

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
100A, 3 pole	1	13538	HNB100U
125A, 3 pole	1	15094	HNB125U
160A, 3 pole	1	19964	▶ HNB160U
200A, 3 pole	1	21188	▶ HNB200U
250A, 3 pole	1	28545	HNB250U
100A, 4 pole	1	17348	HNB101U
125A, 4 pole	1	18223	HNB126U
160A, 4 pole	1	22974	▶ HNB161U
200A, 4 pole	1	30708	▶ HNB201U
250A, 4 pole	1	34350	HNB251U

MCCBs Accessories

X160 Frame MCCB

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Auxiliary Contact	1	1547	▶ HXA021H
Alarm Contact	1	1577	▶ HXA024H
Shunt 24V DC	1	3255	HXA001H
Shunt 230V AC	1	3255	HXA004H
UnderVoltage - 240V AC	1	3923	▶ HXA014H
UnderVoltage - 415V AC	1	3923	HXA015H
Direct Rotary Handle	1	1971	▶ HXA030H
Extended Rotary Handle	1	2770	▶ HXA031H
Spreaders - 3P	1	757	▶ HYA014H
Speaders - 4P	1	1017	▶ HYA015H
Phase barriers - 3P / 4P	1	285	HYB019H
DIN Rail Adaptor	1	559	HYA033H



HXA021H

x250 Frame MCCB

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Auxiliary Contact	1	1547	▶ HXA021H
Alarm Contact	1	1577	▶ HXA024H
Shunt 24V DC	1	3255	HXA001H
Shunt 230V AC	1	3255	HXA004H
UnderVoltage - 240V AC	1	3923	HXA014H
UnderVoltage - 415V AC	1	3923	▶ HXA015H
Direct Rotary Handle	1	2074	HXB030H
Extended Rotary Handle	1	3090	▶ HXB031H
Motor Operator 240VAC	1	31857	▶ HXB042H
Spreaders - 3P	1	867	HYB011H
Speaders - 4P	1	1180	▶ HYB012H
Phase barriers - 3P / 4P	1	285	▶ HYB019H



HXA014H

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	3485	EHN011
Quartz 1 channel 1 daily dial 3 modules	1	3402	▶ EHN111
Quartz 1 channel 1 daily dial	1	* price on request	▶ EH711
Quartz 1 channel weekly dial	1		▶ EH771



EH711

Movement and presence detectors-ceiling and surface mounted

Characteristics:

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

Movement and presence detectors

Inbuilt ambient light sensor with adjustable lux level 5 to 1000 lux adjustable time delay upto 30 mins

Movement detectors

Description	Pack Qty.	Unit MRP (₹)	Cat. Ref.
Single lens, 360 deg., 6m dia detection 10A AC 1, 1 channel, surface mounted	1	5070	▶ EE804A
Single lens, 360 deg., 6m dia detection 10A AC 1, 1 channel, flush mounted	1	5070	▶ EE805A



EE804A



WSNSW11

insysta™ 6AX switches

Description	Module size	Cat. Ref.	Unit MRP (₹)
1 way glossy white	1	WSNSW11	169
1 way glossy white with LED	1	WSNSL11	268
1 way anthracite	1	WSNSW11A	206
1 way anthracite with LED	1	WSNSL11A	320
2 way glossy white	1	WSNSW21	241
2 way anthracite	1	WSNSW21A	286



WSNSW31

insysta™ 10AX switches

Description	Module size	Cat. Ref.	Unit MRP (₹)
1 way glossy white	1	WSNSW31	210
1 way anthracite	1	WSNSW31A	255



WSNSW61

insysta™ 16AX switches

Description	Module size	Cat. Ref.	Unit MRP (₹)
1 way glossy white	1	WSNSW51	319
1 way glossy white with LED	1	WSNSL51	303
1 way anthracite	1	WSNSW51A	344
1 way anthracite with LED	1	WSNSL51A	368
2 way glossy white	1	WSNSW61	343
2 way anthracite	1	WSNSW61A	414



WSNSL71

insysta™ 20AX switches

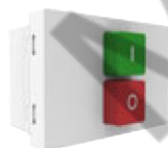
Description	Module size	Cat. Ref.	Unit MRP (₹)
1 way glossy white	1	WSNSW71	309
1 way glossy white with LED	1	WSNSL71	333
1 way anthracite	1	WSNSW71A	373
1 way anthracite with LED	1	WSNSL71A	395



WSNSW81

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

Description	Module size	Cat. Ref.	Unit MRP (₹)
20A DP 1 way glossy white	2	WSNSW81	676
20A DP 1 way anthracite	2	WSNSL81A	809
32A DP 1 way glossy white	2	WSNSW92	955
32A DP 1 way anthracite	2	WSNSL92A	1148



WSNMS12

insysta™ 25A motor starter switches

Description	Module size	Cat. Ref.	Unit MRP (₹)
glossy white	3	WSNMS12	782
anthracite	3	WSNMS12A	938

insysta™ Push button



WSNBP11

Description	Module size	Cat. Ref.	Unit MRP (₹)
6A glossy white	1	WSNBP11	245
6A glossy white with Indicator	1	WSNBP21	333
6A glossy white	2	WSNBP12	355
6A glossy white with Indicator	2	WSNBP22	425
6A anthracite	1	WSNBP11A	297
6A anthracite with Indicator	1	WSNBP21A	395
6A anthracite	2	WSNBP12A	425
6A anthracite with Indicator	2	WSNBP22A	518

insysta™ Sockets



WSNSK42

Description	Module size	Cat. Ref.	Unit MRP (₹)
6 / 16A glossy white Protruded	2	WSNSK42	411
6 / 16A glossy white	3	WSNSK53	499
6 / 16A anthracite Protruded	2	WSNSK42A	494
6 / 16A anthracite	3	WSNSK53A	616
6A Indian socket glossy white	2	WSNSK72	295
6A Indian socket anthracite	2	WSNSK72A	396

insysta™ Regulators & dimmers



WSNFC22

Description	Module size	Cat. Ref.	Unit MRP (₹)
100W glossy white fan regulator	1	WSNFC11	847
120W glossy white fan regulator	2	WSNFC22	1137
400W glossy white incandescent rotary dimmer	1	WSNDM11	1034
1000W glossy white incandescent rotary dimmer	2	WSNDM22	2047
100W anthracite fan regulator	1	WSNFC11A	995
120W anthracite fan regulator	2	WSNFC22A	1360
400W anthracite incandescent rotary dimmer	1	WSNDM11A	1228
1000W anthracite incandescent rotary dimmer	2	WSNDM22A	2459

insysta™ Data sockets



WSNDS11

Description	Module size	Cat. Ref.	Unit MRP (₹)
glossy white RJ11 single	1	WSNDS11	264
glossy white RJ11 twin	1	WSNDS21	369
glossy white RJ45 cat 5e	1	WSNDS31	672
glossy white RJ45 cat 6	1	WSNDS41	779
anthracite RJ11 single	1	WSNDS11A	327
anthracite RJ11 twin	1	WSNDS21A	441
anthracite RJ45 cat 5e	1	WSNDS31A	812
anthracite RJ45 cat 6	1	WSNDS41A	933

insysta™ VDI module & accessories



WSNDT11



WSNDT31

Description	Module size	Cat. Ref.	Unit MRP (₹)
glossy white HDMI Port	1	WSNDT21	1943
glossy white 3x female RCA AV Connector	1	WSNDT31	2618
glossy white female HD VGA 15AV Connector	1	WSNDT42	3370
glossy white Co-Axial TV socket	1	WSNDT11	212
glossy white cord outlet	1	WSNDS71	290
glossy white blanking plate	1	WSNBK11	51
anthracite HDMI Port	1	WSNDT21A	2331
anthracite 3x female RCA AV Connector	1	WSNDT31A	3077
anthracite female HD VGA 15AV Connector	1	WSNDT42A	3968
anthracite Co-Axial TV socket	1	WSNDT11A	265
anthracite cord outlet	1	WSNDS71A	351
anthracite blanking plate	1	WSNBK11A	59



WSNDS51

insysta™ USB sockets

Description	Module size	Cat. Ref.	Unit MRP (₹)
glossy white USB Port	1	WSNDS51	1557
anthracite USB Port	1	WSNDS51A	1863
2A glossy white USB charger	1	WSNDS61	2772
2A anthracite USB charger	1	WSNDS61A	3148



WSNHS22

insysta™ Hospitality range

Description	Module size	Cat. Ref.	Unit MRP (₹)
DND / MMR			
glossy white external DND/MMR with doorbell switch & light indicator for DND/MMR	2	WSNHS12	1807
glossy white internal DND/MMR control & light indicator for DND/MMR	2	WSNHS22	1325
anthracite external DND/MMR with doorbell switch & light indicator DND/MMR	2	WSNHS12A	2169
anthracite internal DND/MMR control & light indicator for DND/MMR	2	WSNHS22A	1589



WSNHS12

Hotel card unit

glossy white hotel key card	3	WSNHS33	4554
anthracite hotel key card	3	WSNHS33A	5534

Shaver socket

glossy white shaver socket	4	WSNHS44	5421
anthracite shaver socket	4	WSNHS44A	6506

Skirting light

glossy white skirting light with white LED	2	WSNHS52	940
anthracite skirting light with white LED	2	WSNHS52A	1158



WSNHS62

Buzzer

glossy white buzzer	2	WSNHS62	1204
anthracite buzzer	2	WSNHS62A	1445

Volume controller

glossy white volume controller	2	WSNHS72	1557
anthracite volume controller	2	WSNHS72A	1732

insysta™ Cover plates - Plastic



WSNCG1

Pack qty.	Module size	Glossy white		Anthracite		Aluminium	
		Cat. Ref.	Unit MRP (₹)	Cat. Ref.	Unit MRP (₹)	Cat. Ref.	Unit MRP (₹)
15	1	WSNCG1	162	WSNCG1A	297	WSNCG1S	291
15	2	WSNCG2	169	WSNCG2A	316	WSNCG2S	309
10	3	WSNCG3	193	WSNCG3A	331	WSNCG3S	335
10	4	WSNCG4	198	WSNCG4A	383	WSNCG4S	378
5	6	WSNCG6	367	WSNCG6A	630	WSNCG6S	638
5	8	WSNCG8	435	WSNCG8A	699	WSNCG8S	679
5	8	WSNCGS8	517	WSNCGS8A	914	WSNCGS8S	896
5	12	WSNCG12	656	WSNCG12A	1187	WSNCG12S	1163
5	18	WSNCG18	889	WSNCG18A	1566	WSNCG18S	1533

insysta™ Cover plates - Real material



WSNCG1GW

Pack qty.	Module size	White glass		Black glass	
		Cat. Ref.	Unit MRP (₹)	Cat. Ref.	Unit MRP (₹)
1	1	WSNCG1GW	2063	WSNCG1GB	2131
1	2	WSNCG2GW	2319	WSNCG2GB	2385
1	3	WSNCG3GW	2944	WSNCG3GB	3009
1	4	WSNCG4GW	3034	WSNCG4GB	3095
1	6	WSNCG6GW	4256	WSNCG6GB	4321
1	8	WSNCG8GW	5097	WSNCG8GB	5016
1	8	WSNCGS8GW	5084	WSNCGS8GB	5146
1	12	WSNCG12GW	5734	WSNCG12GB	5803



WSNG3

insysta™ Grid plates - Real material

Description	Pack qty.	Module size	Cat. Ref.	Unit MRP (₹)
Grid Plate - 1 module	1	1	WSNG1	100
Grid Plate - 2 module	1	2	WSNG2	100
Grid Plate - 3 module	1	3	WSNG3	112
Grid Plate - 4 module	1	4	WSNG4	148
Grid Plate - 6 module	1	6	WSNG6	201
Grid Plate - 8 module (Horizontal)	1	8	WSNG8	247
Grid Plate - 8 module (Square)	1	8	WSNG8S	259
Grid Plate - 12 module	1	12	WSNG12	373

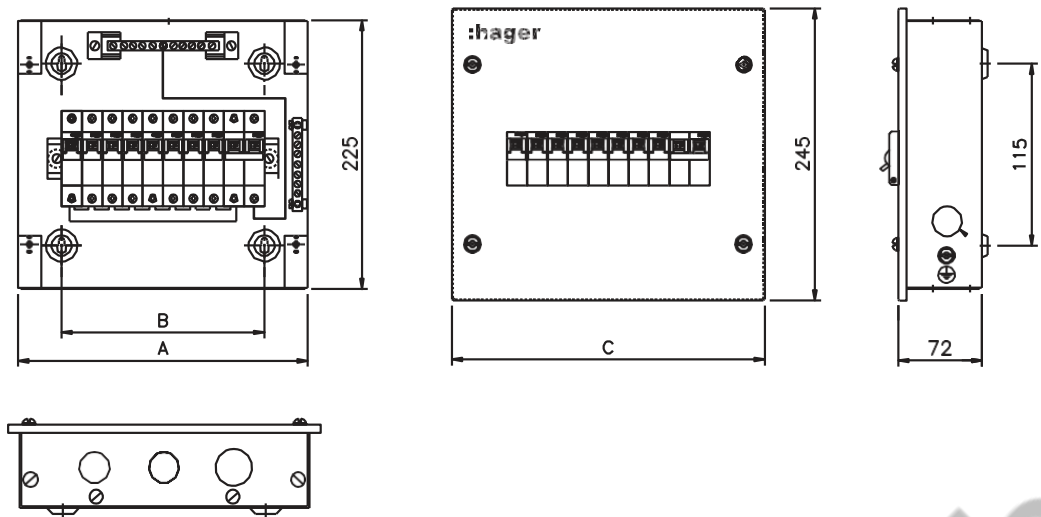


WSNMB3

insysta™ Wall boxes

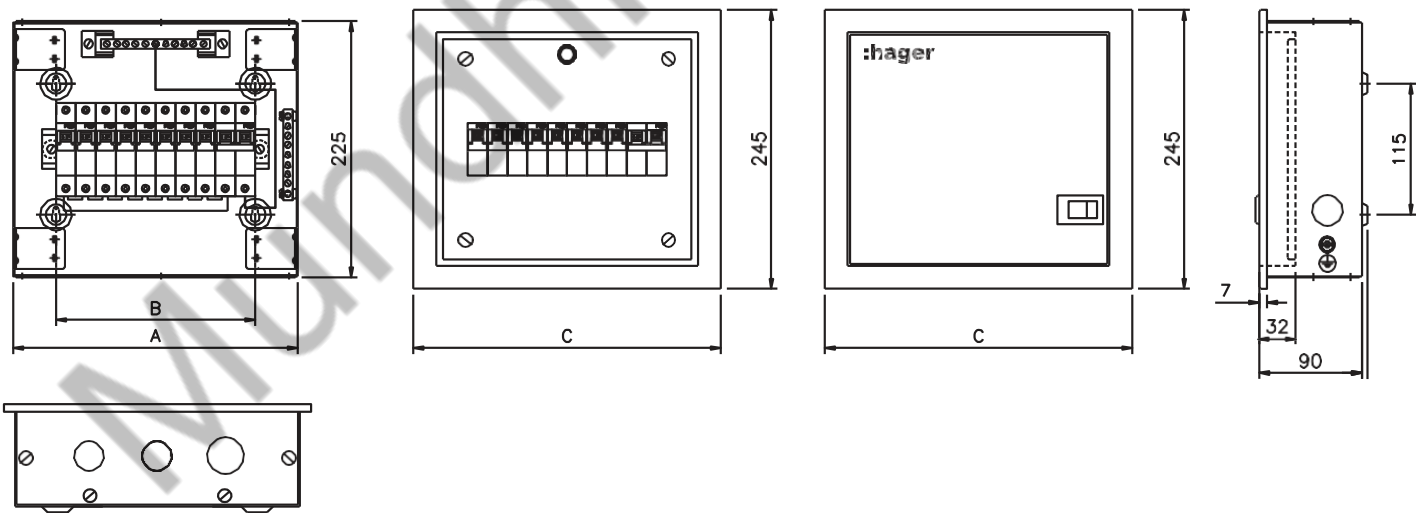
Description	Pack qty.	Module size	Cat. Ref.	Unit MRP (₹)
Metal Mounting Boxes 1 & 2	60	2	WSNMB2	125
Metal Mounting Boxes 3 module	45	3	WSNMB3	125
Metal Mounting Boxes 4 module	30	4	WSNMB4	164
Metal Mounting Boxes 6 module	20	6	WSNMB6	258
Metal Mounting Boxes 8 module (Horizontal)	15	8	WSNMB8H	304
Metal Mounting Boxes 8 module (Square)	24	8	WSNMB8R	304
Metal Mounting Boxes 12 module	16	12	WSNMB12	459
Metal Mounting Boxes 18 module	10	18	WSNMB18	580

Single Door



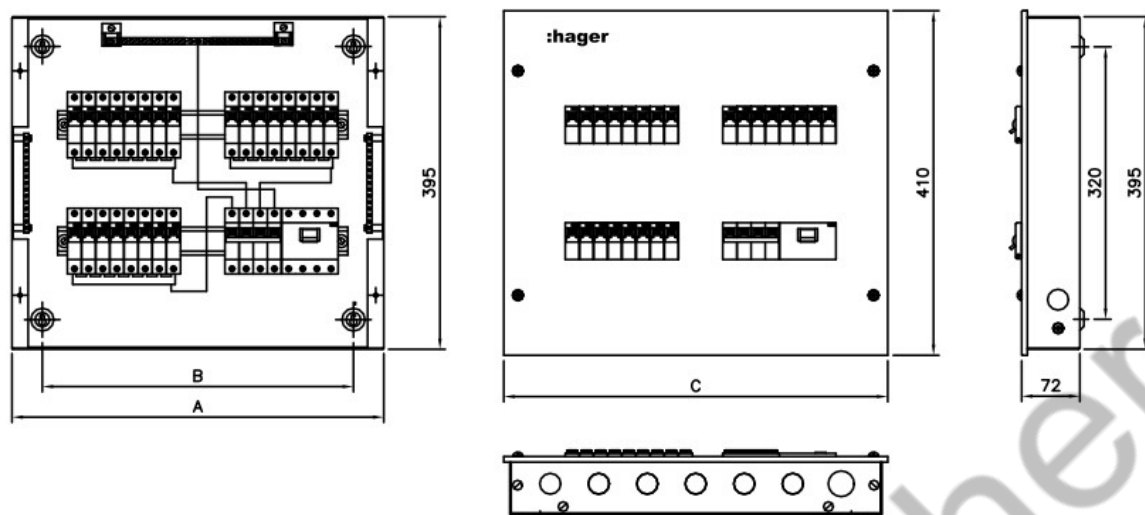
WAY	CODE	A	B	C	Ø32,K'OUT	Ø26,K'OUT	SIDE K'OUT	
					TOP & BOTTOM	TOP & BOTTOM	LH	RH
4	Y81041	140	65	160	1 NO	1 NO	1 NO	1 NO
6	Y81061	175	100	195	1 NO	1 NO	1 NO	1 NO
8	Y81081	210	135	230	1 NO	2 NOS	1 NO	1 NO
12	Y81121	285	210	305	1 NO	3 NOS	1 NO	1 NO
16	Y81161	365	290	385	1 NO	4 NOS	1 NO	1 NO

Double Door



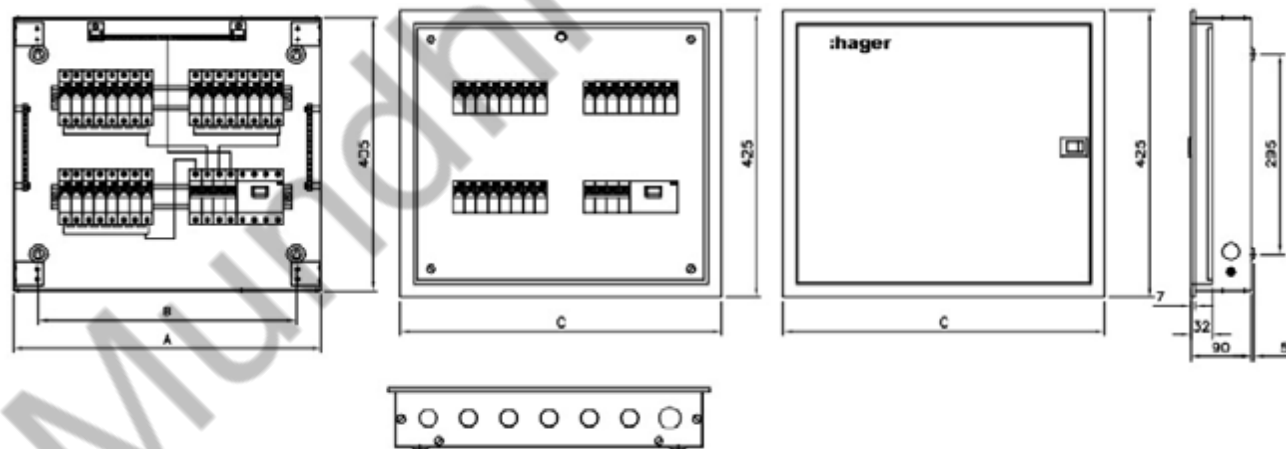
WAY	DB CODE	A	B	C	Ø32,K'OUT	Ø26,K'OUT	SIDE K'OUT	
					TOP & BOTTOM	TOP & BOTTOM	LH	RH
4	Y81042	140	65	160	1 NO	1 NO	1 NO	1 NO
6	Y81062	175	100	195	1 NO	1 NO	1 NO	1 NO
8	Y81082	210	135	230	1 NO	2 NOS	1 NO	1 NO
12	Y81122	285	210	305	1 NO	3 NOS	1 NO	1 NO
16	Y81162	365	290	385	1 NO	4 NOS	1 NO	1 NO

Single Door

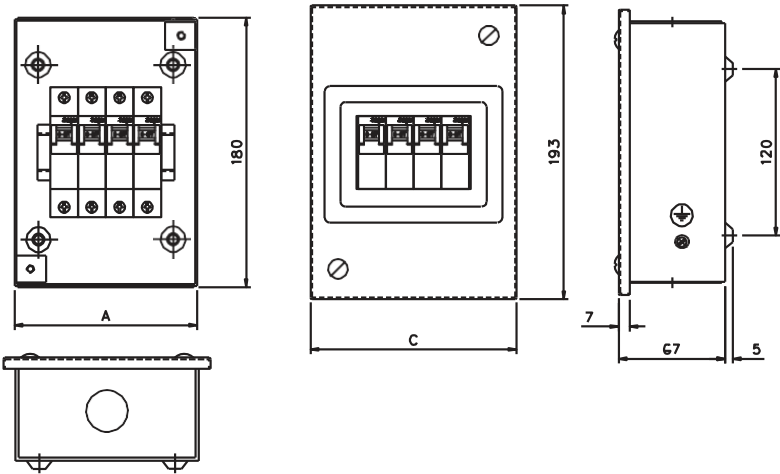


WAY	DB CODE	A	B	C	TOP & BOTTOM	TOP & BOTTOM	LH	RH
4	Y82041	330	255	350	1 NO	4 NOS	1 NO	1 NO
6	Y82061	365	290	385	1 NO	4 NOS	1 NO	1 NO
8	Y82081	460	385	480	1 NO	6 NOS	1 NO	1 NO
12	Y82121	600	525	620	1 NO	8 NOS	1 NO	1 NO

Double Door

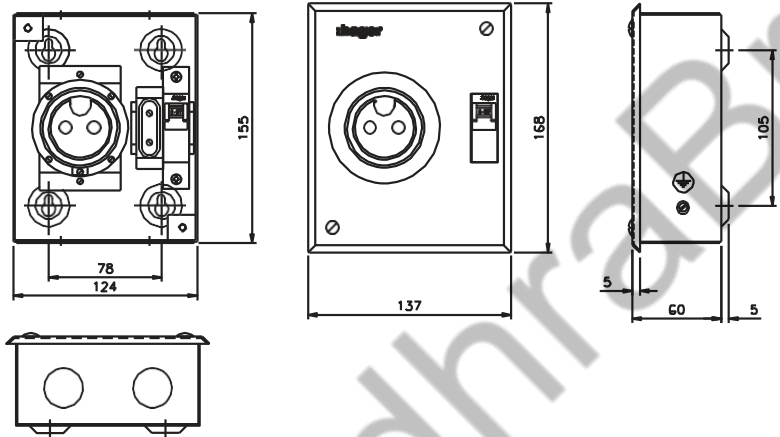


WAY	DB CODE	A	B	C	TOP & BOTTOM	TOP & BOTTOM	LH	RH
4	Y82043	280	205	300	1 NO	4 NOS	1 NO	1 NO
4	Y82042	330	255	350	1 NO	4 NOS	1 NO	1 NO
6	Y82062	365	290	385	1 NO	4 NOS	1 NO	1 NO
8	Y82082	460	385	480	1 NO	6 NOS	1 NO	1 NO
12	Y82122	600	525	620	1 NO	8 NOS	1 NO	1 NO

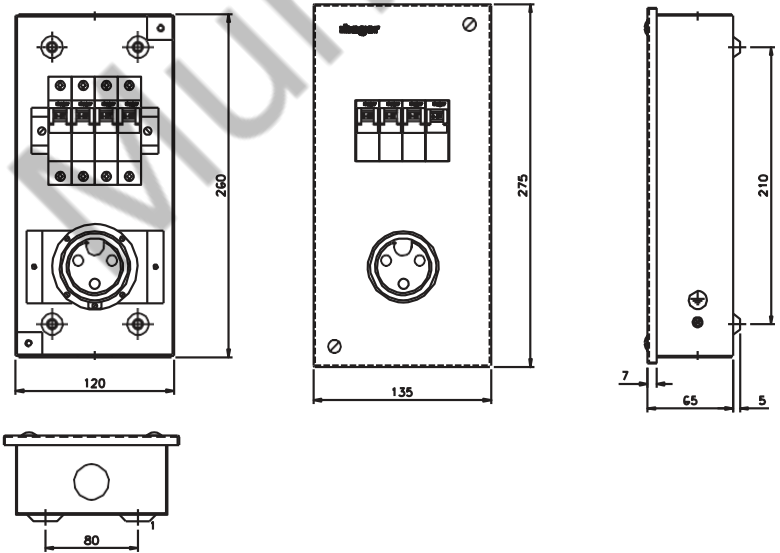


CODE	DB CODE	A	B	C
2 WAY	Y83021	85	45	100
4 WAY	Y83041	120	80	135

Metal Plug & Socket



DB CODE
Y84110/Y84120



DB CODE
Y84420/Y84432

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 = $\frac{\text{Total Load in Watts}}{230 \text{ volts} \times \cos \phi}$

Three Phase = $\frac{\text{Total Load in Watts}}{\sqrt{3} \times 415 \text{ volts} \times \cos \phi}$

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

Cable Size	Conduit Size and Gauge			
Nominal Conductor Size mm ²	16mm or 5/8"	20mm or 3/4"	25mm or 1"	32mm or 1 1/4"
	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

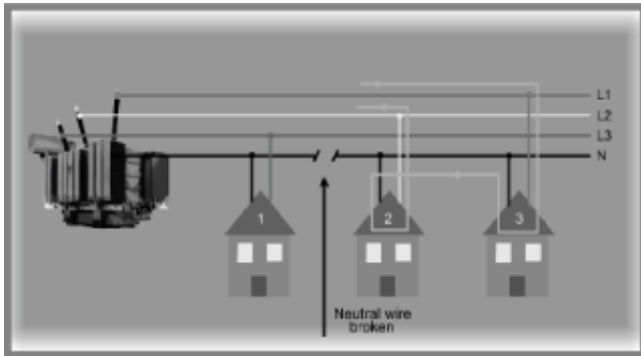
Single core cable (Flexible) voltage grade 1100 V, conforming to IS : 694-1990

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



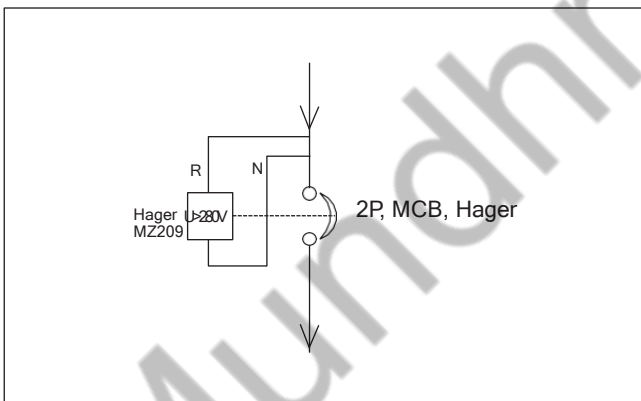
Phase - Phase voltage during loss of neutral



Safety to human and expensive electronic equipments

Connections:

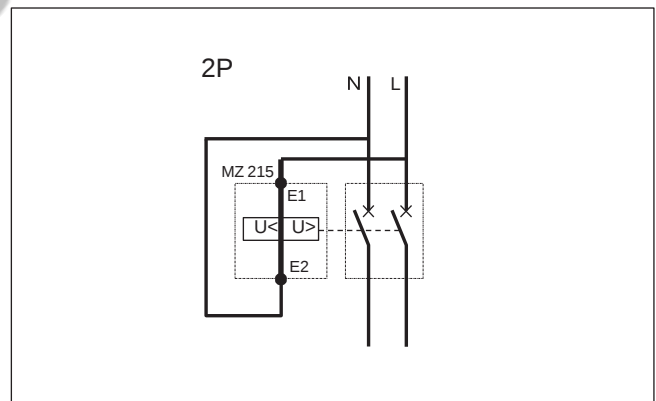
MZ209 is mechanical connected with mcb and does not need any tool for coupling with the MCB. Electrical connections are made with small size wire of 1sqmm from Phase and Neutral conductors in parallel. Phase and Neutral can be connected to either side of MZ209 and only one number per phase is required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



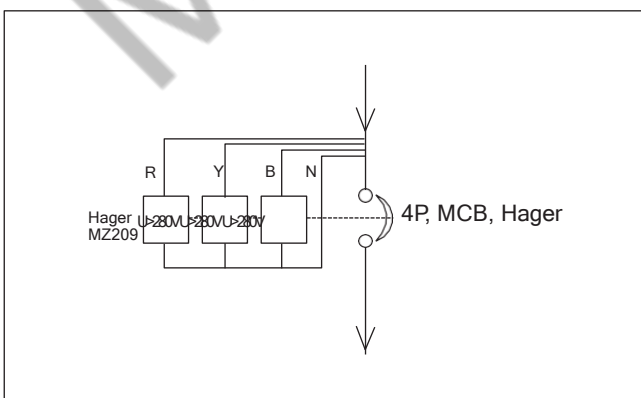
Single Phase connections

Connections:

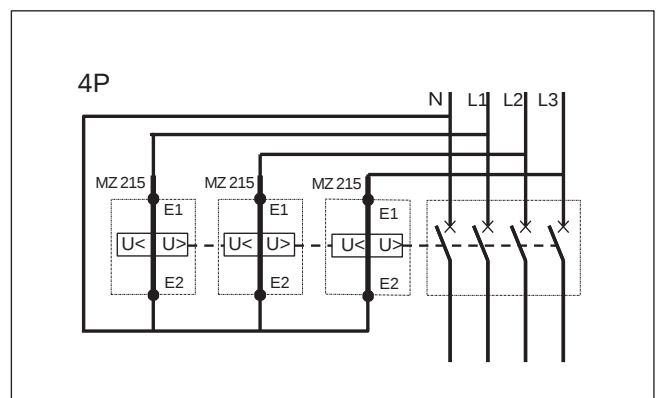
MZ215 is the ideal solution to protect equipments from over and low voltage problems. Unique modular design and simple wiring makes it convenient to mount in standard enclosures with Hager MCB, RCCB or RCBO. MZ215 continuously monitors voltage between Phase and Neutral to disconnect when voltage is high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



Single Phase connections



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 reference and real material, minimum ordering quantity will be applicable. Please connect with sales representative for details regarding MOQ.
- All the products listed in the price list carry a warranty, against manufacturing defects for a period of 24 months from the date of manufacturing.
- The warranty is however subject to proper usage and maintenance and does not cover defects arising out of improper installation, inefficient maintenance, faulty operation and willful or accidental damage including nonperformance, which is caused by an event constituting Force Majeure, i.e. including (but not limited to) pandemic, fire, floods, administrative orders etc.
- 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.

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