Easier to install than ever before:
the new EMC2

xEnergy Basic EMC[2]

IEC Protection
Class 2 compliant

EAT•N

Powering Business Worldwide

A flexible enclosure to suit your every need

With the xEnergy Basic EMC2 series, we're launching a new enclosure platform for power distribution with Class II protection to complement our existing Class I offering. It combines the modularity of the established Eaton EP assembly system with novel, user-friendly features, making it even more flexible and functional.

Flexible sizes and dimensions

1300 mm
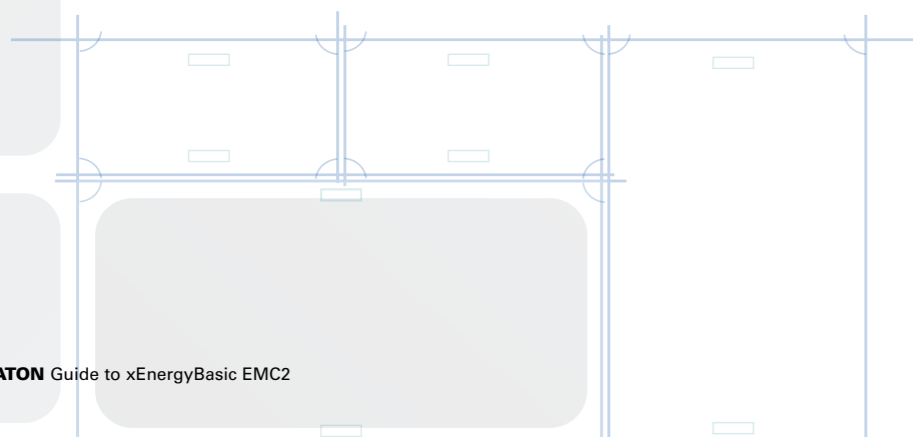
270 mm

1850 mm

Many sizes to choose from

In addition to a wide range of widths and depths, we also offer flexible,
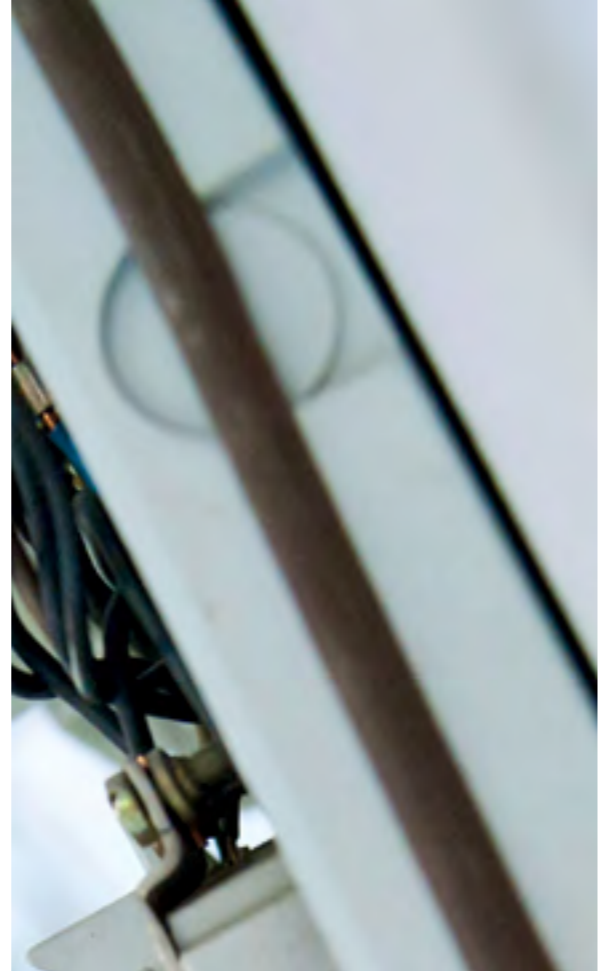modular setups. Combine and arrange the components as you like!

Setup 1 → Setup 2 → Virtually unlimited combinations

Just a formula?

xEnergy Basic EMC[2]

EMC2 stands for 'EP Modular Class 2' and thus recalls the formula at the heart of Einstein's most famous theory. While we're not redefining the relationship between energy and mass, **the new enclosures offer plenty of room for your power distribution** needs, thanks to generous flange openings and reduced external dimensions, without compromising on the space available inside.

X
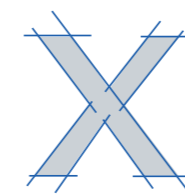
xEnergy Basic EMC[2] C[2]

'xEnergy' is the trade name for our various energy distribution solutions

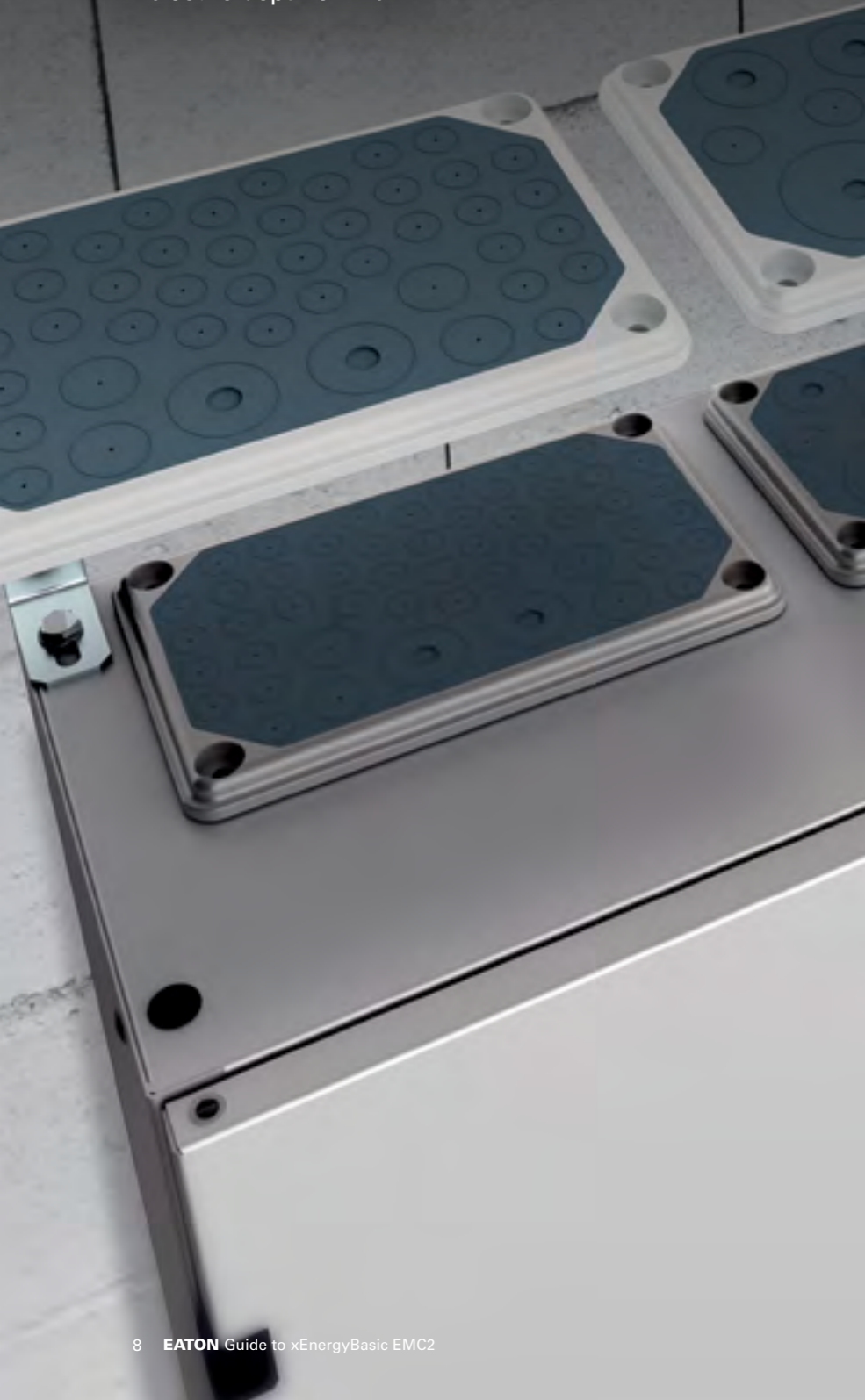**'Basic'** is the product family name and acts as a sub-category within the xEnergy family

'EM' stands for 'EP modular' solutions

'C[2]' stands for 'Class II' protection

EM

· IEC Protection · Class 2 compliant

Wide range
of flanges

- Large flange openings

- Compatible with all Eaton F3A flanges

- New two-component, push-through flange plates

- Enclosure depth of 270 mm

Even more cable-entry options

In addition to large flange openings at the top and bottom that are compatible with our comprehensive range of F3A flanges, we're launching new two-component flange plates. As a result, you have even more options for convenient cable entry at your disposal. We have also carefully selected the enclosure depth of 270 mm to match both the available flange openings and our EP assembly system, thereby making it even easier to wire your distribution boards.
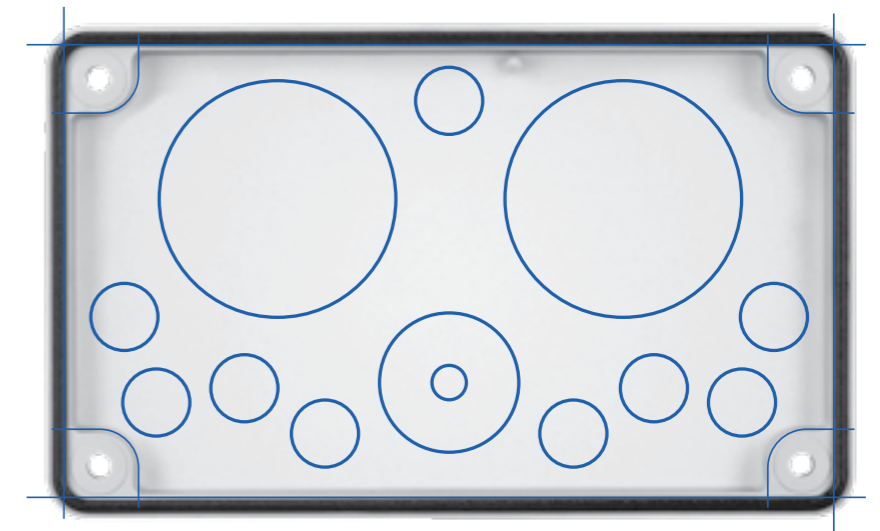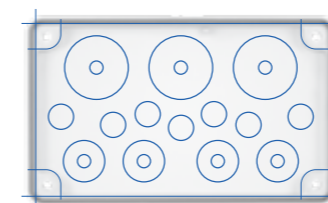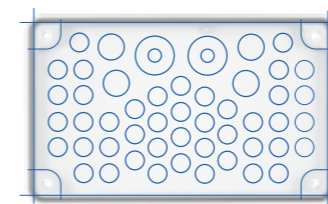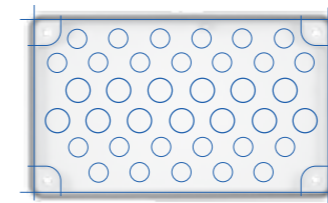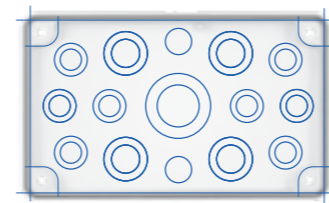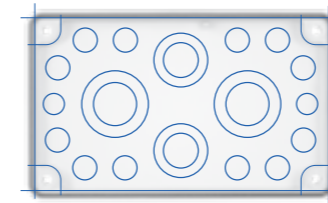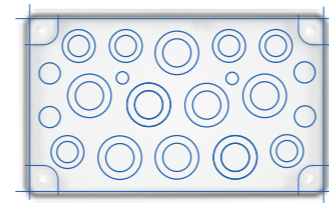
Assembly made easy, thanks to the new frame design

- Fully compatible with EP system components

- Sections can be preconfigured outside the distribution board

- Tool-free snap-in technology

- Significant time savings

New, streamlined enclosure design

An even smaller footprint

We have specially adapted the door design to this new enclosure series. The doors are located on the outside and feature visible, symmetrical hinges, which swing a full 180 degrees and can be opened from the left or right. This has allowed us to reduce the external footprint of the enclosures, without compromising on the space available inside, effectively reducing the height and width by 50 mm. With the new external door, there is no gap between door and enclosure, for an improved overall appearance. And thanks in part to the seamless foamed gasket, the enclosures come with an IP55 rating.

External doors with a swing of 180 degrees

180°   180°

No gap between door and enclosure improves appearance and reduces footprint
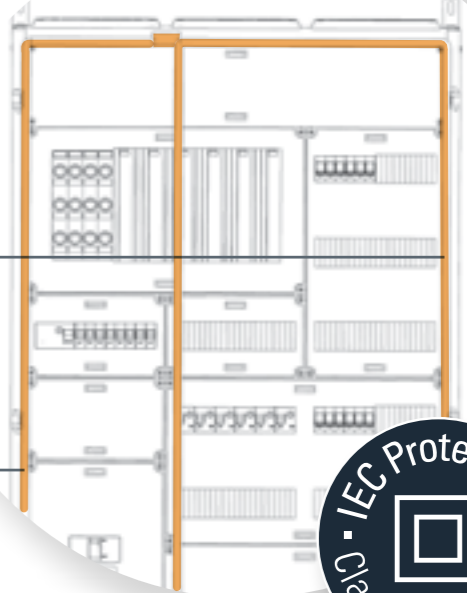
Foamed gasket supports IP55 rating

IEC Protection · Class 2 compliant

Door can be opened from the left **and/or** right

A rugged enclosure that keeps out dust and water spray

All models of the new series come with a high degree of protection as standard (IP55), making them suitable for a broad range of applications, including industrial power distribution. Moreover, the enclosures also comply fully with IP2XC for enhanced personnel protection when the door is open and the protection covers are closed. Like all our enclosures, the EMC2 series is rugged by design and offers the highest possible mechanical impact rating (IK10).

High ingress and impact protection

- Degree of protection: IP55 (IP2XC with open door and closed protection covers)

- Mechanical impact rating: IK10

- Suitable for use in industrial power distribution

Greater simplicity and ease of installation

All models can be wall-mounted or used as floor-standing enclosures. They are equipped with special provisions in the side panels to ensure that they can be quickly and easily bayed. Due to the flexible design, the busbars can be routed through bayed enclosures without a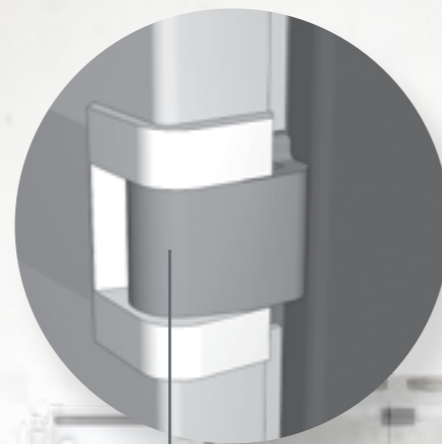ny adverse impact on the protective insulation. When used as floor-standing distribution boards, the enclosures are additionally secured from the outside by means of wall-mounting brackets to prevent unintentional tilting. We also offer plinths with a height of 100 mm, which can be combined or used individually, and additional cable-entry knockouts are available at the rear (in the plastic sections at the top and bottom).

Doors with three-point lock and swing handle

Doors with ideal contact pressure

Multipoint lock in all models

Snap-in function for easier preconfiguration

Swing handle as standard, compatible with half-cylinder locks

## Highly secure locking mechanism as standard

A three-point locking mechanism is standard across the entire product range, from the smallest wall-mounted enclosure to the largest floor-standing version. As a result, the doors have exactly the right contact pressure and thus contribute significantly to the series' IP55 rating. In addition, all models come with a swing handle that is compatible with any standard half-cylinder lock.

Even more flexible assembly options

The new EMC2 enclosure series is fully compatible with our existing EP system components. What sets it apart from the other enclosures of our xEnergy Basic product family is the new interior frame design, which allows individual fields or entire sections to be preconfigured and prewired outside the distribution board. The inserts can then be placed at the bottom of the distribution board and secured in place at the top by means of novel snap fasteners, without any tools. Thanks to this practical and effective snap-in functionality, the inserts can be pre-assembled, which reduces the time required for installation and generates additional productivity gains.

xEnergy Basic EMC[2]
Selection guide
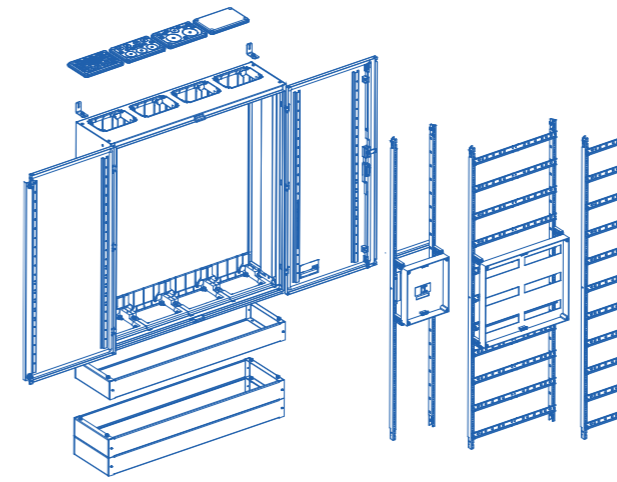
Configuration options

Installation type	Max. no. of vertical sections [250 mm each]	Max. no of horizontal rows [150 mm each]	EP frame size WxH [mm]	Width [mm]	Height [mm]	Depth [mm]	No. of doors	No. of F3A-flanges (not included)	Thermal dissipation acc. to IEC/TR 60890 [ΔT = 20 K]	[ΔT = 35 K]	Type	Cat. no.
Wall-mounted	1	5	250 x 750	300	800	270	1	2	47	95	EMC2-H15/55-W	EP-501300
Wall-mounted	1	6	250 x 900	300	950	270	1	2	54	108	EMC2-H16/55-W	EP-501304
Wall-mounted	1	7	250 x 1050	300	1100	270	1	2	60	121	EMC2-H17/55-W	EP-501309
Wall-mounted	1	8	250 x 1200	300	1250	270	1	2	67	134	EMC2-H18/55-W	EP-501314
Wall-mounted	1	9	250 x 1350	300	1400	270	1	2	71	142	EMC2-H19/55-W	EP-501319
Floor-standing	1	10	250 x 1500	300	1550	270	1	2	75	150	EMC2-H110/55-W	EP-501324
Floor-standing	1	11	250 x 1650	300	1700	270	1	2	79	159	EMC2-H111/55-W	EP-501329
Floor-standing	1	12	250 x 1800	300	1850	270	1	2	83	167	EMC2-H112/55-W	EP-501334
Wall-mounted	2	5	500 x 750	550	800	270	1	4	68	136	EMC2-H25/55-W	EP-501301
Wall-mounted	2	6	500 x 900	550	950	270	1	4	72	144	EMC2-H26/55-W	EP-501305
Wall-mounted	2	7	500 x 1050	550	1100	270	1	4	76	152	EMC2-H27/55-W	EP-501310
Wall-mounted	2	8	500 x 1200	550	1250	270	1	4	80	160	EMC2-H28/55-W	EP-501315
Wall-mounted	2	9	500 x 1350	550	1400	270	1	4	89	179	EMC2-H29/55-W	EP-501320
Floor-standing	2	10	500 x 1500	550	1550	270	1	4	98	197	EMC2-H210/55-W	EP-501325
Floor-standing	2	11	500 x 1650	550	1700	270	1	4	107	215	EMC2-H211/55-W	EP-501330
Floor-standing	2	12	500 x 1800	550	1850	270	1	4	118	236	EMC2-H212/55-W	EP-501335
Wall-mounted	3	5	750 x 750	800	800	270	2	6	82	165	EMC2-H35/55-W	EP-501302
Wall-mounted	3	6	750 x 900	800	950	270	2	6	95	190	EMC2-H36/55-W	EP-501306
Wall-mounted	3	7	750 x 1050	800	1100	270	2	6	108	217	EMC2-H37/55-W	EP-501311
Wall-mounted	3	8	750 x 1200	800	1250	270	2	6	120	241	EMC2-H38/55-W	EP-501316
Wall-mounting	3	9	750 x 1350	800	1400	270	2	6	133	267	EMC2-H39/55-W	EP-501321
Floor-standing	3	10	750 x 1500	800	1550	270	2	6	147	295	EMC2-H310/55-W	EP-501326
Floor-standing	3	11	750 x 1650	800	1700	270	2	6	160	321	EMC2-H311/55-W	EP-501331
Floor-standing	3	12	750 x 1800	800	1850	270	2	6	170	341	EMC2-H312/55-W	EP-501336
Wall-mounted	4	5	1000 x 750	1050	800	270	2	6	112	224	EMC2-H45/55-W	EP-501303
Wall-mounted	4	6	1000 x 900	1050	950	270	2	8	130	260	EMC2-H46/55-W	EP-501307
Wall-mounted	4	7	1000 x 1050	1050	1100	270	2	8	147	295	EMC2-H47/55-W	EP-501312
Wall-mounted	4	8	1000 x 1200	1050	1250	270	2	8	167	334	EMC2-H48/55-W	EP-501317
Wall-mounted	4	9	1000 x 1350	1050	1400	270	2	8	184	368	EMC2-H49/55-W	EP-501322
Floor-standing	4	10	1000 x 1500	1050	1550	270	2	8	194	388	EMC2-H410/55-W	EP-501327
Floor-standing	4	11	1000 x 1650	1050	1700	270	2	8	203	407	EMC2-H411/55-W	EP-501332
Floor-standing	4	12	1000 x 1800	1050	1850	270	2	8	211	423	EMC2-H412/55-W	EP-501337
Wall-mounted	5	6	1250 x 900	1300	950	270	2	10	167	335	EMC2-H56/55-W	EP-501308
Wall-mounted	5	7	1250 x 1050	1300	1100	270	2	10	192	385	EMC2-H57/55-W	EP-501313
Wall-mounted	5	8	1250 x 1200	1300	1250	270	2	10	208	417	EMC2-H58/55-W	EP-501318
Wall-mounted	5	9	1250 x 1350	1300	1400	270	2	10	221	442	EMC2-H59/55-W	EP-501323
Floor-standing	5	10	1250 x 1500	1300	1550	270	2	10	232	464	EMC2-H510/55-W	EP-501328
Floor-standing	5	11	1250 x 1650	1300	1700	270	2	10	242	484	EMC2-H511/55-W	EP-501333
Floor-standing	5	12	1250 x 1800	1300	1850	270	2	10	251	504	EMC2-H512/55-W	EP-501338

Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power – today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy, helping to solve the world's most urgent power management challenges, and doing what's best for our stakeholders and all of society.

Founded in 1911, Eaton is marking its 100th anniversary of being listed on the New York Stock Exchange. We reported revenues of $20.8 billion in 2022 and serve customers in more than 170 countries. For more information, visit **www.eaton.com/EMC2.** Follow us on **Twitter** and **LinkedIn**.

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