

ENSTO

Enclosures and terminals

Ensto Cubo and Ensto Clampo



Better life.
With electricity.

Ensto designs and provides smart electrical solutions to improve the safety, functionality, reliability and efficiency of smart grids, buildings and transportation.
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Ensto in India

Our business in India

Ensto is enabling India achieve its goals of developing modern and sustainable infrastructure, especially in the segments of power grids, photovoltaic, enclosing solutions for large infrastructure projects, and water- and wastewater treatment.

Ensto Utility Networks

Ensto Utility Networks business unit has established a production and sales company in India in 2009. The assembly plant is located in Manesar (near New Delhi) and the assembly concentrates on the low voltage overhead line accessories.

The existing Ensto Utility Networks products have been modified locally to suit the Indian market needs and the sales will concentrate on India at the first stage. The new company will

comprise also other business functions from marketing to product development and logistics.

Ensto Electrification

Ensto Electrification business unit is specialized in manufacturing high quality enclosing solutions.

Ensto offers a wide range of products for different industries and infrastructure systems. For example, Ensto's UV-blocking enclosures are critical for wind and solar industries in India with their unusually high IP ratings.

In addition, Ensto's products for India include smart building technology products and even EV charging units.

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Enclosing solutions

For your specific needs

At Ensto Electrification, we offer you high-quality standard and customer-specific enclosing solutions made from plastics. Our solutions are developed for demanding industrial environments requiring a high degree of protection and extreme durability.

Our broad product range covers thermoplastic, polyester, and aluminium enclosures, alongside related accessories suitable for extremely challenging environments.

Our customer-specific service offering includes the customizing of standard enclosures, along with specially designed enclosures. We also offer integration services including the sourcing of third-party components.

Benefits of using our solutions



Reliable long-term partner

Ensto is a financially solid family-owned company founded in 1958. We have modern production facilities and quality assured processes, offering excellent customer care.



Experienced professionals

We are experts with over 50 years experience in industrial solutions. We have knowledge of solutions made for a wide range of applications in various environments and an excellent design team to support your processes.



Reliable and fast deliveries

You get our products when you need them. This brings cost-savings, helping you optimize your operations.



Reliable, certified products

Our enclosures are designed and tested to serve a broad range of industrial applications, in diverse environments.



Products with long service life

Thanks to their clever design, our enclosures are reliable and have a long lifespan. This brings you savings on installation maintenance and replacement costs.

Customer-specific enclosing solutions

We are experts in providing customer-specific enclosing solutions for demanding environments. Our strategic solutions offering can be divided into customised enclosing solutions

based on standard products, totally tailor-made enclosing solutions based on the customer's product projects and integration services.

Customizing of standard enclosures



Machining



Printing



Color service



Mechanical assembly



Customer-specific sizes

Special-design enclosures



Feasibility studies



3D modeling, prototyping and technical documentation



Mold sourcing and maintenance



Sub-assembly testing and certification



Manufacturing of customer-specific special tools

Integration services



Mechanical assembly



Electromechanical assembly



Testing



Sourcing



Logistics and quality assurance

Customised enclosure solutions



Tailor-made enclosure solutions



Ensto Cubo S enclosures

IP 66/67

Sizes 75 x 125 x 35 to 175 x 250 x 150 mm



Ensto Cubo S enclosure in brief:

- IP 66/67
- Enclosure base made of fibreglass reinforced polycarbonate
- Cover made of ABS or polycarbonate, transparent cover always polycarbonate
- Standard colour grey RAL 7035, cover also available in transparent (product code, change G = T)
- Available with plain sides or knockouts
- Available in 36 sizes, two base depths (25 and 50 mm) and 5 different cover heights
- Thicker enclosure walls
 - Long lifetime
 - Enables machining of threads
 - Better IP protection with cable glands

- Cover and cover screws equipped with sealing holes
- Polyamide screws to ensure a good grip
- Has slots in the base for printed circuit boards
- Available accessories include mounting plates, DIN rails, hinges and fastening lugs
- Enclosure enables insulation suitable for class II assemblies

Contents of the product package:

- Enclosure base
- Cover
- Cover screws
- Mounting screws



Enclosure with a low 10 mm cover and a low 25 mm base.



The cover can be sealed with a standard cover screw.



The enclosure has unique slots in the base for printed circuit boards.



This enclosure is equipped with hinges (DSH11), cover plugs and wing head parts (SLW1).

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Base depth (mm)	Cover depth (mm)	Polycarbonate grey cover metric knockouts (product code)	Polycarbonate base grey ABS cover metric knockouts (product code)	Standard package size	Mounting plates 1,5 mm thick galvanized steel	DIN rails DIN 46277/3 galvanized steel		Cover plug
										Vertical	Horizontal	
75	125	60	45,5	50	10	SPCM081306G ⁽¹⁾	SABM081306G	18	SMP0813	DR35040.4	DR35090.4	
		75	60,5	50	25	SPCM081308G ⁽¹⁾	SABM081308G	18	SMP0813	DR35040.4	DR35090.4	SCP08
		100	85,5	50	50	SPCM081310G ⁽¹⁾	SABM081310G	9	SMP0813	DR35040.4	DR35090.4	SCP10
		125	110,5	50	75	SPCM081313G ⁽¹⁾	SABM081313G	9	SMP0813	DR35040.4	DR35090.4	SCP1315
			¹⁾ M: 2 x M16/25 + 6 x M12/20									
100	100	60	45,5	50	10	SPCM101006G ⁽²⁾	SABM101006G	12	SMP1010	DR35070.4	DR35070.4	
			²⁾ M: 2 x M16/25 + 4 x M12/20									
125	125	60	45,5	50	10	SPCM131306G ⁽³⁾	SABM131306G	18	SMP1313	DR35090.4	DR35090.4	
		75	60,5	50	25	SPCM131308G ⁽³⁾	SABM131308G	18	SMP1313	DR35090.4	DR35090.4	SCP08
		100	85,5	50	50	SPCM131310G ⁽³⁾	SABM131310G	12	SMP1313	DR35090.4	DR35090.4	SCP10
		125	110,5	50	75	SPCM131313G ⁽³⁾	SABM131313G	18	SMP1313	DR35090.4	DR35090.4	SCP1315
			³⁾ M: 4 x M16/25 + 6 x M12/20									
175	175	60	45,5	50	10	SPCM131806G ⁽⁴⁾	SABM131806G	12	SMP1318	DR35090.4	DR35140.4	
		75	60,5	50	25	SPCM131808G ⁽⁴⁾	SABM131808G	25	SMP1318	DR35090.4	DR35140.4	SCP08
		100	85,5	50	50	SPCM131810G ⁽⁴⁾	SABM131810G	19	SMP1318	DR35090.4	DR35140.4	SCP10
		125	110,5	50	75	SPCM131813G ⁽⁴⁾	SABM131813G	14	SMP1318	DR35090.4	DR35140.4	SCP1315
		150	135,5	50	100	SPCM131815G ⁽⁴⁾	SABM131815G	6	SMP1318	DR35090.4	DR35140.4	SCP1315
	250	125	110,5	50	75	SPCM132513G ⁽¹²⁾	SABM132513G	9	SMP1325	DR35090.4	DR35215.4	SCP1315
			¹²⁾ M: 4 x M20/25									
		75	60,5	50	25	SPCM181808G ⁽⁵⁾	SABM181808G	7	SMP1818	DR35140.4	DR35140.4	SCP08
		100	85,5	50	50	SPCM181810G ⁽⁵⁾	SABM181810G	6	SMP1818	DR35140.4	DR35140.4	SCP10
		125	110,5	50	75	SPCM181813G ⁽⁵⁾	SABM181813G	5	SMP1818	DR35140.4	DR35140.4	SCP1315
175	250	150	135,5	50	100	SPCM181815G ⁽⁵⁾	SABM181815G	4	SMP1818	DR35140.4	DR35140.4	SCP1315
			⁵⁾ M: 4 x M12/20 + 4 x M16/25 + 10 x M12/20									
		75	60,5	50	25	SPCM182508G ⁽⁶⁾	SABM182508G	12	SMP1825	DR35140.4	DR35215.4	SCP08
		100	85,5	50	50	SPCM182510G ⁽⁶⁾	SABM182510G	12	SMP1825	DR35140.4	DR35215.4	SCP10
		150	135,5	50	100	SPCM182515G ⁽⁶⁾	SABM182515G	6	SMP1825	DR35140.4	DR35215.4	SCP1315
			⁶⁾ M: 4 x M12/20 + 4 x M16/25 + 12 x M12/20									



SPCP131304LG



SABP131306T



SPCM131813T



SPCM181815G

Plain sides

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Base depth (mm)	Cover depth (mm)	Polycarbonate grey cover plain sides (product code)	ABS grey cover plain sides (product code)	Standard package size	Mounting plates 1,5 mm thick galvanized steel	DIN rails DIN 46277/3 galvanized steel		Cover plug	
										Vertical	Horizontal		
75	125	35	20,5	25	10	SPCP081304LG	SABP081304LG	12	SMP0813	DR35040.4	DR35090.4	SCP08	
		50	35,5	25	25	SPCP081305LG	SABP081305LG	18	SMP0813	DR35040.4	DR35090.4		
		60	45,5	50	10	SPCP081306G	SABP081306G	18	SMP0813	DR35040.4	DR35090.4		
		75	60,5	25	50	SPCP081308LG	SABP081308LG	18	SMP0813	DR35040.4	DR35090.4		
		75	60,5	50	25	SPCP081308G	SABP081308G	18	SMP0813	DR35040.4	DR35090.4	SCP08	
		100	85,5	25	75	SPCP081310LG	SABP081310LG	9	SMP0813	DR35040.4	DR35090.4	SCP1315	
		100	85,5	50	50	SPCP081310G	SABP081310G	9	SMP0813	DR35040.4	DR35090.4	SCP10	
		125	110,5	50	75	SPCP081313G	SABP081313G	9	SMP0813	DR35040.4	DR35090.4	SCP1315	
100	100	35	20,5	25	10	SPCP101004LG	SABP101004LG	18	SMP1010	DR35070.4	DR35070.4		
		60	45,5	50	10	SPCP101006G	SABP101006G	12	SMP1010	DR35070.4	DR35070.4		
125	125	35	20,5	25	10	SPCP131304LG	SABP131304LG	18	SMP1313	DR35090.4	DR35090.4	SCP08	
		50	35,5	25	25	SPCP131305LG	SABP131305LG	18	SMP1313	DR35090.4	DR35090.4		
		60	45,5	50	10	SPCP131306G	SABP131306G	18	SMP1313	DR35090.4	DR35090.4		
		75	60,5	25	50	SPCP131308LG	SABP131308LG	18	SMP1313	DR35090.4	DR35090.4		
		75	60,5	50	25	SPCP131308G	SABP131308G	18	SMP1313	DR35090.4	DR35090.4	SCP08	
		100	85,5	25	75	SPCP131310LG	SABP131310LG	12	SMP1313	DR35090.4	DR35090.4	SCP1315	
		100	85,5	50	50	SPCP131310G	SABP131310G	12	SMP1313	DR35090.4	DR35090.4	SCP10	
		125	110,5	50	75	SPCP131313G	SABP131313G	18	SMP1313	DR35090.4	DR35090.4	SCP1315	
	175	35	20,5	25	10	SPCP131804LG	SABP131804LG	18	SMP1318	DR35090.4	DR35140.4	SCP08	
		50	35,5	25	25	SPCP131805LG	SABP131805LG	12	SMP1318	DR35090.4	DR35140.4		
		60	45,5	50	10	SPCP131806G	SABP131806G	12	SMP1318	DR35090.4	DR35140.4		
		75	60,5	25	50	SPCP131808LG	SABP131808LG	25	SMP1318	DR35090.4	DR35140.4		
		75	60,5	50	25	SPCP131808G	SABP131808G	25	SMP1318	DR35090.4	DR35140.4	SCP08	
		100	85,5	25	75	SPCP131810LG	SABP131810LG	19	SMP1318	DR35090.4	DR35140.4	SCP1315	
		100	85,5	50	50	SPCP131810G	SABP131810G	19	SMP1318	DR35090.4	DR35140.4	SCP10	
		125	110,5	25	100	SPCP131813LG	SABP131813LG	14	SMP1318	DR35090.4	DR35140.4	SCP1315	
		125	110,5	50	75	SPCP131813G	SABP131813G	14	SMP1318	DR35090.4	DR35140.4	SCP1315	
		150	135,5	50	100	SPCP131815G	SABP131815G	6	SMP1318	DR35090.4	DR35140.4	SCP1315	
		250	125	110,5	50	75	SPCP132513G	SABP132513G	9	SMP1325	DR35090.4	DR35215.4	SCP1315
		175	175	75	60,5	50	25	SPCP181808G	SABP181808G	7	SMP1818	DR35140.4	DR35140.4
100	85,5			50	50	SPCP181810G	SABP181810G	6	SMP1818	DR35140.4	DR35140.4	SCP10	
125	110,5			50	75	SPCP181813G	SABP181813G	5	SMP1818	DR35140.4	DR35140.4	SCP1315	
150	135,5			50	100	SPCP181815G	SABP181815G	4	SMP1818	DR35140.4	DR35140.4	SCP1315	
	250	75	60,5	50	25	SPCP182508G	SABP182508G	12	SMP1825	DR35140.4	DR35215.4	SCP08	
		100	85,5	50	50	SPCP182510G	SABP182510G	12	SMP1825	DR35140.4	DR35215.4	SCP10	
		150	135,5	50	100	SPCP182515G	SABP182515G	6	SMP1825	DR35140.4	DR35215.4	SCP1315	

Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)
DSHI1	Hinge, pair, polycarbonate	28 x 28	1
SFL1	Fastening lug, set of 4 pcs, polycarbonate	15 x 30	1
SBI1	Insert for pods, brass	M2	50
SBI1.04	Insert, set of 4 pcs	M2	1
SBS40	Spacer, 40 mm, for panels	7 x 48	12
SMS1	Mounting screw for plates and rails, steel	4 x 8	100
SLS35	Cover screw, medium	11 x 35	100
SLS60	Cover screw, long, for 50 mm covers	11 x 60	50
SLW1	Cover screw's wing head part, only for 25 and 50 mm covers	11 x 17	10



Screw set, incl. 4 short cover screws and 4 mounting screws, SLSA23.04.



Hinge pair, DSHI1.



Fastening lug set, SFL1.



SMP0813



Cover plug, short, SCP1315.

Ensto Cubo D enclosures

IP 66/67

Sizes 53 x 55 x 36 to 230 x 300 x 111 mm



Ensto Cubo D enclosure in brief:

- Made of ABS or polycarbonate, transparent cover always polycarbonate
- Standard colour grey RAL 7035, cover also available in transparent (product code, change G = T)
- Available with plain sides
- Has modern design with faceted corners and cover plugs
- Includes fastening pods inside the cover
- Has slots in the base for printed circuit boards
- Available accessories include e.g. mounting plates, DIN rails, hinges and fastening lugs
- Enclosure enables insulation suitable for class II assemblies

Contents of the product package:

- Enclosure base
- Cover
- Cover screws
- Mounting screws
- Cover plugs for cover screws



This enclosure is equipped with hinges (DSHI1) and fastening lugs (DFL1).



Ensto Cubo D enclosures include fastening pods inside the cover.



The enclosure has unique slots in the base for printed circuit boards.



Ensto Cubo D enclosures have a modern design with faceted corners and cover plugs.

Width (mm)	Height (mm)	Depth (mm)	Inner-depth (mm)	Polycarbonate grey cover (Product code)	ABS grey cover (Product code)	Polycarbonate metric knockouts (product code)	Standard package size	Mounting plates 1,5 mm thick galvanized steel	DIN rails galvanized steel	
									15 mm	35 mm
53	55	36	27,5	DPCP050504G	DABP050504G		18		DR15016.4	
	63	36	25,0	DPCP050704G	DABP050704G		15		DR15038.4	
80	82	56	42,0	DPCP080806G	DABP080806G		12	DMP0808	DR15058.4	DR35058.4
		86	72,0	DPCP080809G	DABP080809G		12	DMP0808	DR15058.4	DR35058.4
	120	56	42,0	DPCP081206G	DABP081206G		18	DMP0812	DR15096.4	DR35096.4
		86	72,0	DPCP081209G	DABP081209G		9	DMP0812	DR15096.4	DR35096.4
	160	56	42,0	DPCP081606G	DABP081606G		12	DMP0816	DR15136.4	DR35136.4
		86	72,0	DPCP081609G	DABP081609G		12	DMP0816	DR15136.4	DR35136.4
120	122	56	42,0	DPCP121206G	DABP121206G		12	DMP1212	DR15096.4	DR35096.4
		86	72,0	DPCP121209G	DABP121209G		12	DMP1212	DR15096.4	DR35096.4
	160	91	77,5	DPCP121609G	DABP121609G		8	DMP1216	DR15136.4	DR35136.4
		200	86	DPCP122009G	DABP122009G		8	DMP1220		DR35176.4
150	200	76	62,0	DPCP152008G	DABP152008G	DPCM152008G ⁽¹⁾	10	DMP1520		DR35160.4
160	240	91	77,5	DPCP162409G	DABP162409G	DPCM162409G ⁽²⁾	10	DMP1624		DR35215.4
		121	107,5	DPCP162412G	DABP162412G	DPCM162412G ⁽²⁾	8	DMP1624		DR35215.4
230	300	86	72,5	DPCP233009G	DABP233009G		7	DMP2330		DR35275.4
		111	97,5	DPCP233011G	DABP233011G		7	DMP2330		DR35275.4

¹⁾ 2 x M16 + 2 x M20 + 4 x M25 + 4 x M32

²⁾ 2 x M20 + 4 x M25 + 6 x M32

Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)
DSHI1	Hinge pair	28 x 28	1
DFL1	Fastening lug, set of 4	33 x 21 x 9,5	1
DCP1	Cover plug	-	50
DLS1	Cover screw, short	3 x 18/10	100
DLS2	Cover screw, long, for 162412 and 233011	3 x 50/10	1
DLS3	Cover screw, TORX TX20	3 x 18/10	48
DMS1	Mounting screw	3 x 7	100



Hinge pair, DSHI1.



Fastening lug set, DFL1.

Ensto Cubo O, C, W enclosures

IP 66/67

Sizes 200 x 200 x 132 to 400 x 600 x 187 mm



Ensto Cubo O enclosure in brief:

- Made of ABS or polycarbonate, transparent cover always polycarbonate
- Standard colour grey RAL 7035, cover also available in transparent
- Available with plain sides or with metric knockouts
- A 55 mm deep extension frame available for alternative depths in all sizes. use of several extension frames on top of each other possible.
- Cover and cover screws equipped with sealing holes
- Cover can also be mounted onto the back of the base
- Wide range of accessories available including mounting plates, DIN rails, modular covers, corner elevators and fastening lugs
- Enclosure enables insulation suitable for class II assemblies

Contents of the product package:

A 132 mm deep standard enclosure includes:

- Enclosure base
- Cover
- Cover screws
- Mounting screws

A 187 mm deep standard enclosure includes:

- Enclosure base
- Cover
- Extension frame
- Cover screws
- Mounting screws
- Screws for the extension frame

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Cubo O Polycarbonate grey cover plain sides (product code)	Cubo O Polycarbonate transparent cover plain sides (product code)	Cubo O ABS grey cover plain sides (product code)	Cubo O ABS transparent cover plain sides (product code)	Cubo O Polycarbonate grey cover metric knockouts (product code)	Cubo O Polycarbonate transparent cover, metric knockouts (product code)	Standard package size
200	200	132	115,0	OPCP202013G	OPCP202013T	OABP202013G	OABP202013T			1
		187	170,0	OPCP202018G	OPCP202018T	OABP202018G	OABP202018T			1
	300	132	115,0	OPCP203013G	OPCP203013T	OABP203013G	OABP203013T			1
		187	170,0	OPCP203018G	OPCP203018T	OABP203018G	OABP203018T			1
	400	132	115,0	OPCP204013G	OPCP204013T	OABP204013G	OABP204013T			1
		187	170,0	OPCP204018G	OPCP204018T	OABP204018G	OABP204018T			1
300	300	132	115,0	OPCP303013G	OPCP303013T	OABP303013G	OABP303013T	OPCM303013G	OPCM303013T	1
		187	170,0	OPCP303018G	OPCP303018T	OABP303018G	OABP303018T	OPCM303018G	OPCM303018T	1
	400	132	115,0	OPCP304013G	OPCP304013T	OABP304013G	OABP304013T	OPCM304013G	OPCM304013T	1
		187	170,0	OPCP304018G	OPCP304018T	OABP304018G	OABP304018T	OPCM304018G	OPCM304018T	1
	600	132	115,0	OPCP306013G	OPCP306013T	OABP306013G	OABP306013T	OPCM306013G	OPCM306013T	1
		187	170,0	OPCP306018G	OPCP306018T	OABP306018G	OABP306018T	OPCM306018G	OPCM306018T	1
400	400	132	115,0	OPCP404013G	OPCP404013T	OABP404013G	OABP404013T			1
		187	170,0	OPCP404018G	OPCP404018T	OABP404018G	OABP404018T			1
	600	132	115,0	OPCP406013G	OPCP406013T	OABP406013G	OABP406013T			1
		187	170,0	OPCP406018G	OPCP406018T	OABP406018G	OABP406018T			1



OPCP203018G



OPCP406018T



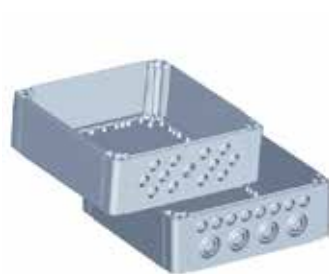
OPCM303013G



OPCM306018T



It is possible to mount the cover onto the back of the base of the Ens-to Cubo O enclosure, the back of the base is then used as a front panel.



300 x 300 mm enclosures with metric knockouts: up: 12 x M20 + 1 x M16/25
down: 8 x M20 + 4 x M25/40



Adjustable elevators are available for the base corner slots allowing the mounting of plates and panels at any height.



The enclosure is easily locked with a padlock, without any other accessories.

Width (mm)	Height (mm)	Depth (mm)	Inner depth (mm)	Cubo C	Cubo C	Cubo W	Cubo W	Standard package size
				Polycarbonate grey cover flange knockouts (product code)	Polycarbonate transparent cover flange knockouts (product code)	Polycarbonate grey cover plain sides (product code)	Polycarbonate transparent cover, plain sides (product code)	
200	200	132	115,0	CPCF202013G ⁽¹⁾	CPCF202013T ⁽¹⁾	WPCP202013G	WPCP202013T	1
		187	170,0	CPCF202018G ⁽¹⁾	CPCF202018T ⁽¹⁾	WPCP202018G	WPCP202018T	1
	300	132	115,0	CPCF203013G ⁽²⁾	CPCF203013T ⁽²⁾	WPCP203013G	WPCP203013T	1
		187	170,0	CPCF203018G ⁽²⁾	CPCF203018T ⁽²⁾	WPCP203018G	WPCP203018T	1
	400	132	115,0	CPCF204013G ⁽²⁾	CPCF204013T ⁽²⁾	WPCP204013G	WPCP204013T	1
		187	170,0	CPCF204018G ⁽²⁾	CPCF204018T ⁽²⁾	WPCP204018G	WPCP204018T	1
300	300	132	115,0	CPCF303013G ⁽³⁾	CPCF303013T ⁽³⁾	WPCP303013G	WPCP303013T	1
		187	170,0	CPCF303018G ⁽³⁾	CPCF303018T ⁽³⁾	WPCP303018G	WPCP303018T	1
	400	132	115,0	CPCF304013G ⁽³⁾	CPCF304013T ⁽³⁾	WPCP304013G	WPCP304013T	1
		187	170,0	CPCF304018G ⁽³⁾	CPCF304018T ⁽³⁾	WPCP304018G	WPCP304018T	1
	600	132	115,0	CPCF306013G ⁽⁴⁾	CPCF306013T ⁽⁴⁾	WPCP306013G	WPCP306013T	1
		187	170,0	CPCF306018G ⁽⁴⁾	CPCF306018T ⁽⁴⁾	WPCP306018G	WPCP306018T	1
400	400	132	115,0	CPCF404013G	CPCF404013T	WPCP404013G	WPCP404013T	1
		187	170,0	CPCF404018G	CPCF404018T	WPCP404018G	WPCP404018T	1
	600	132	115,0	CPCF406013G ⁽⁴⁾	CPCF406013T ⁽⁴⁾	WPCP406013G	WPCP406013T	1
		187	170,0	CPCF406018G ⁽⁴⁾	CPCF406018T ⁽⁴⁾	WPCP406018G	WPCP406018T	1

⁽¹⁾ 4 x F1 knockout, ⁽²⁾ 2 x F1 knockout + 2 x F2 knockout, ⁽³⁾ 4 x F2 knockout, ⁽⁴⁾ 6 x F2 knockout



CPCF202013G



CPCF203018T



WPCP202013G



WPCP406018T

Accessories for Ensto Cubo O, C, W enclosures

Extension frames and mounting plates

Enclosure size			Extension frames, polycarbonate, Incl. mounting screws and gasket	Mounting plates, galvanized steel
Width (mm)	Height (mm)	Depth (mm)		
200	200	132/187	OPCP202006E	OMP2020
	300	132/187	OPCP203006E	OMP2030
	400	132/187	OPCP204006E	OMP2040
300	300	132/187	OPCP303006E	OMP3030
	400	132/187	OPCP304006E	OMP3040
	600	132/187	OPCP306006E	OMP3060
400	400	132/187	OPCP404006E	OMP4040
	600	132/187	OPCP406006E	OMP4060



OPCP303006E



OMP3040

Front panels

Width (mm)	Height (mm)	Depth (mm)	Closed, incl. corner elevators			Hinged, incl. corner elevators				
			Polypropylene	Aluminium	Hinged side	Polypropylene	Aluminium	Hinged side	Polypropylene	Aluminium
200	200	132/187	OFP22	OFP22A	200 mm	OHFP22	OHFP22A	200 mm	OHFP22	OHFP22A
	300	132/187	OFP23	OFP23A	200 mm	OHFP23	OHFP23A	300 mm	OHFP32	OHFP32A
	400	132/187	OFP24	OFP24A	200 mm	OHFP24	OHFP24A	400 mm	OHFP42	OHFP42A
300	300	132/187	OFP33	OFP33A	300 mm	OHFP33	OHFP33A	300 mm	OHFP33	OHFP33A
	400	132/187	OFP34	OFP34A	300 mm	OHFP34	OHFP34A	400 mm	OHFP43	OHFP43A
	600	132/187	OFP36	OFP36A	300 mm	OHFP36	OHFP36A	600 mm	OHFP63	OHFP63A
400	400	132/187	OFP44	OFP44A	400 mm	OHFP44	OHFP44A	400 mm	OHFP44	OHFP44A
	600	132/187	OFP46	OFP46A	400 mm	OHFP46	OHFP46A	600 mm	OHFP64	OHFP64A

Cover screws

Product code	Description	Dimensions (mm)	Package size (pcs)
OLS42	Slotted/cross head, sealable	14 x 42	100
OLSA42.4	Screw set, 4 slotted/cross head cover screws OLS42	14 x 42	1
OLSA42.6	Screw set, 6 slotted/cross head cover screws OLS42	14 x 42	1
OLSA42.04	Screw set, 4 slotted/cross head cover screws OLS42 and 4 mounting screws OMS1	14 x 42	1
OLSA42.06	Screw set, 6 slotted/cross head cover screws OLS42 and 8 mounting screws OMS1	14 x 42	1
OLS42N	Slotted/cross head, dark grey Noryl	14 x 42	12
OLS32	Slotted/cross head for 600 mm modular cover	14 x 32	12
PLS63	Springloaded, slotted/cross head	14 x 62	12
OLSH1	Hinged cover screw, slotted/cross head, blue, polyamide	14 x 96	10
OLWH1	Hinged cover screw, wing head, blue, polyamide	14 x 113	10
OLW55	Wing head	14 x 55	100
OLWA55.4	Screw set, 4 wing head cover screws OLW55	14 x 55	1
OLWA55.6	Screw set, 6 wing head cover screws OLW55	14 x 55	1
OLWA55.04	Screw set, 4 wing head cover screws OLW55 and 4 mounting screws OMS1	14 x 55	1
OLWA55.06	Screw set, 6 wing head cover screws OLW55 and 8 mounting screws OMS1	14 x 55	1
OLT42	DIN 3 head	14 x 42	100
OLTA42.4	Screw set, 4 DIN 3 head cover screws OLT42	14 x 42	1
OLTA42.6	Screw set, 6 DIN 3 head cover screws OLT42	14 x 42	1
OLTA42.04	Screw set, 4 DIN 3 head cover screws OLT42 and 4 mounting screws OMS1	14 x 42	1
OLTA42.06	Screw set, 6 DIN 3 head cover screws OLT42 and 8 mounting screws OMS1	14 x 42	1
OLTA42.041	Screw set, 4 DIN 3 head cover screws OLT42 and 4 mounting screws OMS1 + key OLT42KEY	14 x 42	1
OLT42KEY	Key for DIN head screw OLT42	50 x 53 x ø22	1



OFP22



Cover screw, slotted/cross head, OLS42.



Cover screw, slotted/cross head, springloaded, PLS63.

Accessories for Ensto Cubo O, C, W enclosures

Flange accessories

Product code	Description	Dimensions (mm)	Package size (pcs)
Cover plates for flange openings			
F1151	F1 size, excl. gasket, PC/ABS	137 x 48	1
F2251	F2 size, incl. PUR gasket, PC	216 x 86	1
Knockout flanges			
F2252	F2 size, incl. PUR gasket, 7 x Pg11 + 7 x Pg9/16, PC	216 x 86	1
F2253	F2 size, incl. PUR gasket, 2 x Pg21/29/36 + 2 x Pg9/16 + 1 x Pg11, PC	216 x 86	1
F2254	F2 size, incl. PUR gasket, 5 x Pg16/21 + 2 x Pg11 + 1 x Pg9/16, PC	216 x 86	1
F2255	F2 size, incl. PUR gasket, 7 x M16 + 7 x M12/20, PC	216 x 86	1
F2256	F2 size, incl. PUR gasket, 2 x M20/32/50 + 2 x M12/20 + 2 x M16, PC	216 x 86	1
F2257	F2 size, incl. PUR gasket, 5 x M20/32 + 2 x M16 + 1 x M12/20, PC	216 x 86	1

Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)
OFL1	Fastening lug, set of 4 pcs	19 x 40 x 35,5	1
OEL1	Corner elevator, incl. M5 bolt	19 x 19 x 14	1
OELA1.04	Corner elevator, set of 4 OEL1	19 x 19 x 14	1
OH11	Hinge pair, incl. mounting instruction	40 x 50 x 16,5	1
F2GSS20T	Mounting kit for Cubo C bases, F2 size	200 x 250 x 15	1
BPA10H	Breather, IP 68, polyamide, grey, 120 l/h	ø19 x 17	1
BVPE-21	Ventilation plug, M20	-	1
WQL1.1	Latch, pair Includes hooks and counter parts, PC	-	1



F2251



F2252



F2256



Fastening lug, set, OFL1



Corner elevator, OEL1



Mounting kit for Cubo C bases,
F2GSS20T.



Breather, IP 68, BPA10H

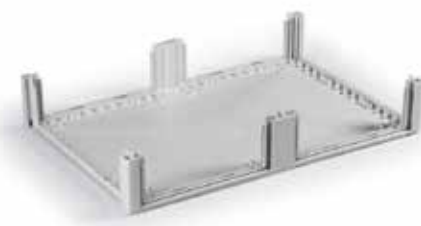


Latch, pair, WQL1.1

Ensto Cubo P panel building system

IP 65

Base sizes 300 x 300 x 102 to 400 x 600 x 102 mm



Our Ensto Cubo P Panel Building System is designed in response to our customers' wishes. The system has a unique, open construction in the assembly stage which guarantees quick and easy assembly and mounting. This saves your time and resources.

The base part of the system is totally open in all four directions and enables fast and efficient mounting of the panel parts. All conductors, busbars etc. are installed without any threading side-wards; plates and locking device are fitted at the final stage. All parts of the panel building system are assembled quickly and easily thanks to the locking pins.

The Ensto Cubo P system is tested and approved (EN 60529) to IP65.

Ensto Cubo P panel building system in brief:

- Made of polycarbonate
- Standard colour grey RAL 7035, cover also available in transparent
- Includes a base part with four totally open sides
- Base part available in 4 sizes
- Open construction in the assembly stage; easy access from all directions
- Easy and quick assembly of bases and plates with the help of quick release pins
- Easy to modify and extend into larger assemblies
- All parts are reusable
- Wide range of accessories available
- Enclosure enables insulation suitable for class II assemblies

Further information available in our Panel building system brochure. Please order through our customer service or download at www.ensto.com.



The Ensto Cubo P is an open construction during the assembly stage. The base part is totally open in four directions, enabling fast and efficient mounting.



A typical Ensto Cubo P panel assembly.

Ensto Cubo P panel building system, bases, polycarbonate

Product code	Description	Dimensions (mm)			Package size (pcs)	EAN 13 code
		Width	Height	Depth		
PPCF303010B4	4 openings	300	300	102	8	6418677166228
PPCF304010B4	4 openings	300	400	102	6	6418677166242
PPCF306010B6	6 openings	300	600	102	4	6418677166266
PPCF406010B6	6 openings	400	600	102	3	6418677166303



Assembly parts

Product code	Description	Dimensions (mm)	Package size (pcs)	EAN 13 code
PCSC3	Connection set for 300 mm side	251 x 90 x 36	1	6418677172571
PCSD4	Connection set for 400 mm side	351 x 90 x 36	1	6418677172588
PRC1846	Connection rib 300 mm	251 x 16 x 30	25	6418677172601
PRD1847	Connection rib 400 mm	351 x 16 x 30	25	6418677172618
PCC1843	Connection collar 300 mm	251 x 90 x 36	25	6418677172632
PCD1844	Connection collar 400 mm	351 x 90 x 36	25	6418677172649
PBLP1849	Locking pin for Cubo P bases	15 x 90	50	6418677172670



Connection set, PCSC3.



Connection rib, PRC1846.



Connection collar, PCC1843.



Locking pin, PBLP1849.

Ensto Cubo N wall cabinets

IP 66

Sizes 250 x 300 x 140 to 600 x 800 x 300 mm



Ensto Cubo N wall cabinets in brief:

- Available with plain sides or with a polycarbonate window
- Available in 7 sizes
- Superb temperature resistance
- Sturdy construction and high resistance to corrosion and solvents
- Suitable for highly demanding environments such as waste water treatment and the petrochemical/chemical industries
- Quick fixture brackets at the back allow fitting without drilling
- Built-in protective edge allows you to open the door 180° in installations and also prevents entry of water when opening the door
- Vertical patterns on the inner side of the door enables

- correct fitting of devices
- Enclosure enables insulation suitable for class II assemblies

Contents of the product package:

- Enclosure base
- Door
- Lock and DIN 3 keys (one for each lock) (or 3-point closing with swing handle)

Width (mm)	Height (mm)	Depth (mm)	Polyester plain sides (product code)	Polyester 3-point closing with swing handle / DIN3 plain sides (product code)	Standard package size	Mounting plates		Chassis for modular devices, IP20	Internal door kit, GRP
						GRP	Galvanized steel		
250	300	140	NGRP253014		1	NGRMP2530	NMP2530		
300	400	200	NGRP304020	NGRP304020P3SH	1	NGRMP3040	NMP3040	NMC3040.24	NID3040
400	400	200	NGRP404020	NGRP404020P3SH	1	NGRMP4040	NMP4040	NMC4040.36	NID4040
	500	200	NGRP405020	NGRP405020P3SH	1	NGRMP4050	NMP4050	NMC4050.54	NID4050
	600	230	NGRP406023	NGRP406023P3SH	1	NGRMP4060	NMP4060	NMC4060.54	NID4060
500	600	230	NGRP506023	NGRP506023P3SH	1	NGRMP5060	NMP5060	NMC5060.69	NID5060
600	800	300	NGRP608030	NGRP608030P3SH	1	NGRMP6080	NMP6080	NMC6080.116	NID6080
800	600	300	NGRP806030		1				

Other accessories

Product code	Description	Dimensions (mm)	Package size (pcs)
Wall mounting lugs			
NFL1	Set of 4 pcs, plastic	-	1
NFL2	Set of 4 pcs, AISI 304	-	1
NFL3	Set of 4 pcs, plastic	-	1
Locks			
NKL1	Key lock with a wrench	-	1
NPD3041	Padlocking accessory, AISI 304	-	1



Chassis for modular devices, NMC4060.54. The kit includes a metal frame with DIN rails and module cover plates.



NGRP806030



Internal door kit, NID4060.



Wall mounting lugs, NFL1.



Key lock with a wrench, NKL1.

Ensto Cubo I enclosures

IP 66

Sizes 540 x 540 x 201 to 540 x 720 x 201 mm



Ensto Cubo I enclosures in brief:

- Made of GRP (glass-reinforced polyester), transparent cover always polycarbonate
- Standard colour grey RAL 7035, cover also available in transparent
- Available with plain sides
- Available in 2 sizes
- Superb temperature resistance
- Sturdy construction and high resistance to corrosion and solvents
- Suitable for highly demanding environments such as waste water treatment and the petrochemical/chemical industries
- Enclosure enables insulation suitable for class II assemblies
- Enclosures can also be joined together with coupling pieces

Contents of the product package:

- Enclosure base
- Door
- Cover screws

Width (mm)	Height (mm)	Depth (mm)	Polyester grey cover (product code)	Polyester transparent cover (product code)	Standard package size
540	540	201	IGRP545420G	IGRP545420T	1
540	720	201	IGRP547220G	IGRP547220T	1

Accessories

Product code	Description	Dimensions (mm)	Package size (pcs)
ICP2	Coupling piece for enclosure 540 mm side	223 x 105 mm	1
ICP1	Coupling piece for enclosure 720 mm side	313 x 105 mm	1
IFL1	Fastening lug, set of 4 pcs, steel, zinck plated	-	1
ILSS28.04	Cover Screw set, 8 pcs x M6 x 28 mm, plastic head	M6	1
IHI1	Hinge pair, set of 2	50 x 50 mm	1



IGRP545420G



IGRP545420G



IGRP547220G

Ensto junction boxes for outdoor lightings

Safe and stylish solutions for public areas



Ensto Cubo enclosures in brief:

- Enclosure made from polycarbonate which is a proven material for outdoor installation
- Insulating material ensures safety from electrical shocks
- UV resistant material ensures no fading of color
- Thicker enclosure walls with impact resistance IK08. Made for rugged outdoor usage
- Enclosures and accessories tested for IP66/67 protection.
- Injection moulded polyurethane gasket ensures longer life even under harsh outdoor conditions
- Standard color grey RAL 7035
- Models also available with provision to mount MCB/fuse for circuit protection
- Hinged cover version available for ease of maintenance

Ensto terminals in brief:

Ensto Clampo Compact, KR8041/KR10021

- 4-pole and 2-pole terminals
- For copper conductors
- Terminals compact in size: Ideal for installations with limited space available thereby giving enough space for cable termination
- Terminals include wire protection to prevent damage to fine wire strands, while also preventing wires from entering too deeply into the terminal
- Cost-effective

Ensto Clampo Pro, KE66/KE66.2

- Tapping blocks, single pole, four connections
- Connecting aluminium and copper conductors
- Conductive parts (the body and the screws) are made from tin-coated aluminium. Tin doesn't cause galvanic corrosion with either aluminium or copper and is therefore an excellent barrier between the two metals
- Short circuit tested

Technical information	KR8041	KR10021	KE66/KE66.2
Cross-section range:	Cu 1,5 - 6 mm ²	Cu 6 - 10 mm ²	Al 6 - 50 mm ² , Cu 2,5 - 50 mm ²
Nominal current range:	41 A	41 A	145 - 425 A
Nominal insulation voltage:	450 V	500 V	800 V
Operating temperature:	Max. 105 °C	Max. 105 °C	Max. 80 °C
Tightening torque:	0,8 Nm	2,5 Nm	4 Nm (2,5-4mm ²), 12 Nm (6-50mm ²)
Ability to receive copper conductors:	1 x 1,5 - 5 mm ²	1 x 6 mm ² - 10 mm ²	3 x 1,5 mm ² , 2 x 2,5 mm ² , 1 x 4 mm ² - 6 mm ²

Street light junction boxes with metric knockouts

Conductor size	Product code	Dimensions (mm)			Terminals used	Cable entry type
		Width	Height	Depth		
Cu 2,5/4 mm ²	KOT21396	100	100	60	KR8041	Metric knockouts 2 x M16/25 + 4 x M12/20
Cu 6 mm ²	KOT21397	75	125	60	KR8041	Metric knockouts 2 x M16/25 + 6 x M12/20
	KOT21398	125	125	60	KR8041	Metric knockouts 4 x M16/25 + 6 x M12/20
Cu 10 mm ²	KOT21399	125	175	60	KR10021	Metric knockouts 4 x M16/25 + 8 x M12/20
	KOT21400	125	175	100	KR10021	Metric knockouts 4 x M16/25 + 8 x M12/21
	KOT21401*	125	175	100	KR10021	Metric knockouts 4 x M16/25 + 8 x M12/22
	KOT21402	175	175	75	KR10021	Metric knockouts M: 4 x M12/20 + 4 x M16/25 + 10 x M12/20
	KOT21403	175	175	100	KR10021	Metric knockouts 4 x M12/20 + 4 x M16/25 + 10 x M12/21
	KOT21404*	175	175	100	KR10021	Metric knockouts 4 x M12/20 + 4 x M16/25 + 10 x M12/22
Al/Cu 6-10 mm ²	KOT21405	175	175	75	KE66/KE66.2	Metric knockouts 4 x M12/20 + 4 x M16/25 + 10 x M12/22
	KOT21406	175	175	100	KE66/KE66.2	Metric knockouts knockouts 4 x M12/20 + 4 x M16/25 + 10 x M12/22
	KOT21407*	175	175	100	KE66/KE66.2	Metric Knockouts 4 x M12/20 + 4 x M16/25 + 10 x M12/22
Al/Cu 16-25 mm ² mm	KOT21408	175	250	75	KE66/KE66.2	Provision for 2 x M32 grommets or cable glands
	KOT21409	175	250	100	KE66/KE66.2	Provision for 2 x M32 grommets or cable glands
	KOT21410*	175	250	100	KE66/KE66.2	Provision for 2 x M32 grommets or cable glands

* Pre-assembled hinges

Ensto Modulo distribution enclosures

Tough enclosures for the harshest environments

Ensto Modulo is an entirely new range of durable and innovative distribution enclosures. Ensto Modulo protects your electronic equipment from external risk factors, among them dust, water, moisture, impacts and tampering. Thanks to their high degree of protection and impact strength, Ensto Modulo is able to withstand the harshest environments and to tackle the most demanding installations.

Ensto has a broad experience in creating enclosing solutions for many applications and segments. Below are some examples of applications in which Ensto Modulo enclosures are typically used.





Metric knockouts as standard makes drilling on/off-site obsolete. Ensto has a wide range of plastic enlargers and reducers.



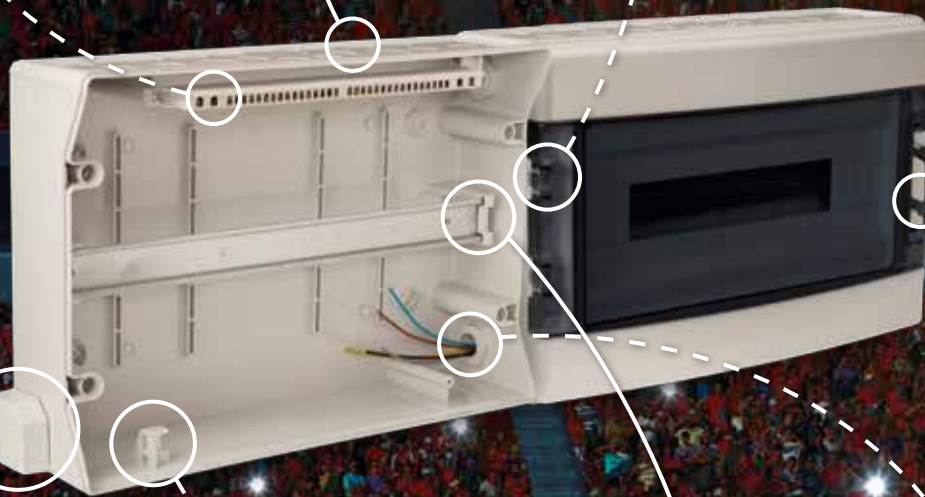
Window is hinged. This means that the opening direction can be changed quickly and safely.



Door can be supplemented with key lock (MODKL3) or triangle locks (MODKL2).



Earth and Neutral bars at double height, section 12 x 6.5 mm are factory installed.



Condensed water may form in high IP enclosures due to different temperatures. Consider the use of a breather device or drain (BVD22 or DWP1).



Joining enclosures is easy. A channel for wiring is possible with a joining kit for mounting enclosures horizontally (MODB25M) or vertically (MODB40M).



Internal hinges for large enclosures (MODHI2) allows the entire door to hang. See the example picture on page 4.



DIN-rails can be installed into two height positions. Fixing requires only one screw.

Ensto Modulo distribution enclosures



Ensto Modulo is a distribution panel enclosure for low-voltage switchgear and control gear assemblies with a completely stylish and innovative shape, reaching the highest level of quality and design.

Tested by the well-known Testing and Certification Institute (VDE), the product fulfils the requirements of IEC 62208:2011, 2nd Edition, DIN EN 62208:2012; EN 62208:2011.

The hinged smoke gray transparent window provides outstanding UV protection and an opening angle up to 180°. Ensto Modulo enclosures have a large space for different metric knock-outs for wiring. The possibility to place the DIN rail at two height positions and assembling the rail using only one screw, makes the installation easy and comfortable.

Ensto Modulo in brief:

- Available in 9 sizes, capacity for 4 to 54 modules
- Factory installed DIN-rails, earth and neutral bars
- Factory made metric knockouts from M20 to M40
- Removable DIN-rail chassis for models with two or more rows
- Sealed screws at four points for easy installation

Technical information

Degree of protection	IP65
Impact resistance (-25 °C ... +40 °C)	IK08 (5 J)
Auto-extinguishing degree	UL94 HB
Protection Class	II
Glow wire test	650 °C
Service temperature (empty boxes)	-25 °C ... +70 °C
Maximum voltage (empty boxes)	1000 V AC / 1500 V DC
Earth and Neutral bars	500 V / 125A

Body

Material	ABS
UV resistance (ISO 4892-2 meth. A)	500 hour
Color	Grey, RAL 7035

Window

Material	Polycarbonate
UV resistance (ISO4892-2 meth. A)	1000 hour
Color	Transparent, smoke grey

Ensto Modulo distribution enclosures, ABS

Product code	Description	Dimensions (mm)			Weight (kg)	Package size (pcs)	GTIN-13
		Width	Height	Depth			
MODAB41PN	Distribution enclosure 4 modules	166	231	113	0.722	1	6438100196226
MODAB61PN	Distribution enclosure 6 modules	202	231	113	0.762	1	6438100196233
MODAB81PN	Distribution enclosure 8 modules	238	231	118	0.929	1	6438100196240
MODAB121PN	Distribution enclosure 12 modules	310	246	148	1.415	1	6438100196257
MODAB181PN	Distribution enclosure 18 modules	418	286	148	1.879	1	6438100196264
MODAB242PN	Distribution enclosure 24 modules	310	436	148	2.357	1	6438100196271
MODAB362PN	Distribution enclosure 36 modules	418	436	148	2.918	1	6438100196288
MODAB363PN	Distribution enclosure 36 modules	310	586	148	3.098	1	6438100196295
MODAB543PN	Distribution enclosure 54 modules	418	586	148	3.949	1	6438100196301
Socket enclosures							
MODAB121SOC	Socket enclosure 12 modules	310	435	147	1,972	1	6438100200237
MODAB181SOC	Socket enclosure 18 modules	418	436	147	2,506	1	6438100200244



MODAB41PN



MODAB121PN



MODAB242PN



MODAB543PN

Ensto Modulo distribution enclosures, PC

Product code	Description	Dimensions (mm)			Weight (kg)	Package size (pcs)	GTIN-13
		Width	Height	Depth			
MODAB41PN	Distribution enclosure 4 modules	166	231	113	0.722	1	6438100196226
MODAB61PN	Distribution enclosure 6 modules	202	231	113	0.762	1	6438100196233
MODAB81PN	Distribution enclosure 8 modules	238	231	118	0.929	1	6438100196240
MODAB121PN	Distribution enclosure 12 modules	310	246	148	1.415	1	6438100196257
MODAB181PN	Distribution enclosure 18 modules	418	286	148	1.879	1	6438100196264
MODAB242PN	Distribution enclosure 24 modules	310	436	148	2.357	1	6438100196271
MODAB362PN	Distribution enclosure 36 modules	418	436	148	2.918	1	6438100196288
MODAB363PN	Distribution enclosure 36 modules	310	586	148	3.098	1	6438100196295
MODAB543PN	Distribution enclosure 54 modules	418	586	148	3.949	1	6438100196301

Accessories

Product code	Description	Weight (kg)	Package size (pcs)	GTIN-13
MODHI2	Base frame inner hinge	0.005	10	6438100197094
MODKL2	Lock triangle 2 units with key	0.018	1	6438100197100
MODKL3	Security key lock	0.038	1	6438100197117
MODB25M	Bushing joining enclosures 25M	0.017	1	6438100197124
MODB40M	Bushing joining enclosures 40M	0.025	1	6438100197131
MODKL1	Standard lock	0.012	10	6438100197148
MODHI1	Hinge, spare part	0.002	12	6438100197155

Spare parts

Product code	Description	Dimensions (mm)			Weight (kg)	Package size (pcs)	GTIN-13
		Width	Height	Depth			
MODD041	Transparent door 4 modules	170	150	30	0.092	1	6438100197759
MODD061	Transparent door 6 modules	200	150	30	0.115	1	6438100197766
MODD081	Transparent door 8 modules	240	150	30	0.129	1	6438100197773
MODD121	Transparent door 12 modules	310	170	30	0.202	1	6438100197780
MODD181	Transparent door 18 modules	420	170	30	0.249	1	6438100197797
MODD242	Transparent door 24 mod 2r	310	320	30	0.375	1	6438100197803
MODD362	Transparent door 36 mod 2r	420	320	30	0.526	1	6438100197810
MODD363	Transparent door 36 mod 3r	310	470	30	0.556	1	6438100197827
MODD543	Transparent door 54 mod 3r	420	470	30	0.742	1	6438100197834



MODAB03XS



MODAB04XS



MODAB121SOC



MODAB181SOC



MODHI2



MODKL3



MODB25M



MODKL1

Ensto Clampo Pro universal terminals

For Al/Cu conductors from 2,5 mm² to 240 mm²



Ensto Clampo Pro terminals in brief:

- Include one-pole terminal blocks and tapping blocks that accommodate four conductors
- The 50 mm² universal terminal is also available as a three-pole terminal block
- Compact size compared to other, similar products on the market
- Suitable for both aluminium and copper conductors
- Pre-greased
- Simple, reliable construction
- Can be fixed straight onto a DIN rail or, with screws, onto a base
- Can be quickly and easily connected using one screw only.



The Ensto Clampo Pro universal terminal series includes one-pole terminal blocks and tapping blocks. The 50 mm² terminal is also available as a three-pole terminal block.

Cross-section (mm²)	Product code	EAN 13 code	Colour	Nominal current (A)	
				Cu	Al
One-pole terminal blocks					
Al 6-50, Cu 2,5-50	KE61	6418677191817	Grey		
	KE61.2	6418677191831	Blue	160	145
	KE61.3	6418677191848	Yellow-green		
Al/Cu 16-95	KE62	6418677191855	Grey		
	KE62.2	6418677191862	Blue	245	220
	KE62.3	6418677191879	Yellow-green		
Al/Cu 35-150	KE63	6418677191886	Grey		
	KE63.2	6418677191893	Blue	320	290
	KE63.3	6418677191909	Yellow-green		
Al/Cu 35-240	KE64	6418677191916	Grey		
	KE64.2	6418677191923	Blue	425	380
	KE64.3	6418677191930	Yellow-green		
Three-pole terminal block					
Al 6-50, Cu 2,5-50	KE61.03	6418677191824	Grey	160	145
Tapping blocks, single pole, four connections					
Al 6-50, Cu 2,5-50	KE66	6418677191947	Grey		
	KE66.2	6418677191954	Blue	160	145
	KE66.3	6418677191961	Yellow-green		
Al/Cu 16-95	KE67	6418677191978	Grey		
	KE67.2	6418677191985	Blue	245	220
	KE67.3	6418677191992	Yellow-green		
Al/Cu 35-150	KE68	6418677192005	Grey		
	KE68.2	6418677192012	Blue	320	290
	KE68.3	6418677192029	Yellow-green		
Al/Cu 35-240	KE69	6418677192036	Grey		
	KE69.2	6418677192043	Blue	425	380
	KE69.3	6418677192050	Yellow-green		

Ensto Clampo Pro 1000 V terminals

For Al/Cu conductors from 2,5 mm² to 150 mm²



Ensto Clampo Pro 1000 V terminals in brief:

- Suitable for 1000 VAC and VDC
- Compact size
 - Can be installed next to each other without partition plates
- Suitable for both aluminium and copper conductors
- Short circuit tested class A terminals
- Higher temperature range (90 °C)

Technical features

- Housing: fiberglass reinforced polyamide
 - Better mechanical strength vs. polyamide
 - Better insulating capacity
 - 90°C temperature range achieved for the material
- Colours:
 - Red and black versions for DC applications
 - Grey and blue for AC applications (KE6x.3 to be used as a grounding terminal)

Cross-section (mm²)	Product code	EAN 13 code	Colour	Nominal current (A)	
				Cu	Al
One-pole terminal blocks					
Cu 2,5-50 mm² Al 6-50 mm²	KE161	6438100181758	Grey	160	145
	KE161.2	6438100181765	Blue	160	145
	KE161.4	6438100181772	Red	160	145
	KE161.6	6438100181789	Black	160	145
Al/Cu 16-95 mm²	KE162	6438100160616	Grey	245	220
	KE162.2	6438100160623	Blue	245	220
	KE162.4	6438100160647	Red	245	220
	KE162.6	6438100160654	Black	245	220
Al/Cu 35-150 mm²	KE163	6438100181796	Grey	320	290
	KE163.2	6438100181802	Blue	320	290
	KE163.4	6438100181819	Red	320	290
	KE163.6	6438100181826	Black	320	290

Ensto Clampo Compact terminal blocks

For Cu conductors from 1,5 mm² to 35 mm²



Ensto Clampo Compact terminal blocks in brief:

- For 1,5 – 16 mm² copper conductors
- Compact in size (ideal for installations with limited space)
- Include wire protection (to prevent damage to fine wire strands, while also preventing wires from entering too deeply into the terminal)
- Body of polyamide, heat resistance 105 °C
- Installation onto a DIN rail or directly onto surface

Cross-section (mm ²)	Product code	EAN 13 code	Number of poles	Nominal current (A)
Cu 1,5 mm ²	KR5031	6418677111402	3	17,5 A
	KR5131	6418677111426	12	17,5 A
Cu 1,5 - 6 mm ²	KR8031	6418677111778	3	41 A
	KR8041	6418677111792	4	41 A
Cu 6 - 16 mm ²	KR8121	6418677111822	12	41 A
	KR10021	6418677111334	2	82 A
	KR10031	6418677111358	3	82 A

KE33 in brief:

- Series is completed with KE33 terminal for 35 mm² copper conductors

Cross-section (mm ²)	Product code	EAN 13 code	Colour	Nominal current (A)
Cu 1,5 - 35 mm ²	KE33	6418677161704	Gray	135 A
	KE33.20	6418677161735	Blue	135 A
	KE33.30	6418677161759	Yellow/Green	

Technical information

Enclosure series	Cubo S		Cubo D		Cubo O		Cubo C	Cubo W	Cubo P	Cubo M	Cubo N	Cubo H
Material	PC	ABS	PC	ABS	PC	ABS	PC	PC	PC	GRP	GRP	AL
Knockout alternatives	Plain sides, metric and Pg knockouts	Plain sides	Plain sides	Plain sides	Plain sides, metric knockouts	Plain sides	Flange knockouts	Plain sides	Totally open sides	Plain sides	Plain sides	Plain sides
Minimum size (mm)	75 x 125 x 35		53 x 55 x 36		200 x 200 x 132		200 x 200 x 132	200 x 200 x 132	300 x 300 x 102	75 x 80 x 55	250 x 300 x 140	50 x 45 x 30
Maximum size (mm)	175 x 250 x 150		230 x 300 x 111		400 x 600 x 187		400 x 600 x 187	400 x 600 x 187	400 x 600 x 102	400 x 405 x 120	600 x 800 x 300	310 x 601 x 180
Degree of protection	IP 66, IP 67	IP 66, IP 67	IP 66, IP 67	IP 66, IP 67	IP 66, IP 67	IP 66, IP 67	IP 66, IP 67	IP 66, IP 67	IP 65	IP 66	IP 66	IP 66
Impact resistance	IK 08 (-25 °C...+35 °C)	IK 07 (+35 °C)/IK 06 (-25 °C)	IK 08 (-25 °C...+35 °C)	IK 07 (+35 °C)/IK 06 (-25 °C)	IK 08 (-25 °C...+35 °C)	IK 08 (+35 °C)/IK 07 (-25 °C)	IK 08 (-25 °C...+35 °C)	IK 08 (-25 °C...+35 °C)	IK 08 (-25 °C...+35 °C)	7 Nm	IK 10 ⁽¹⁾	7 Nm
Environmental type (UL)	4, 4X, 6, 12, 13	N/A	4, 4X, 6, 12, 13	N/A	4, 4X, 12, 13	N/A	4, 4X, 12, 13	4, 4X, 12, 13	N/A	N/A	N/A	N/A
Continuous operating temperature	-40 °C...+80 °C	-40 °C...+60 °C	-40 °C...+80 °C	-40 °C...+60 °C	-40 °C...+80 °C	-40 °C...+60 °C	-40 °C...+80 °C	-40 °C...+80 °C	N/A	-40 °C...+110 °C	N/A	-40 °C...+110 °C
Flammability	UL 746C 5V	UL 94 HB	UL 746C 5V	UL 94 HB	UL 746C 5V	UL 94 HB	UL 746C 5V	UL 746C 5V	N/A	N/A	UL 746C 5V	N/A

N/A = No information available

¹⁾ Models with polycarbonate window IK 07 (-5 °C...+80 °C)

Certificates

Ensto Cubo series	S		D		O		C	W	P	M	N	H
Material	PC	ABS	PC	ABS	PC	ABS	PC	PC	PC	GRP	GRP	AL
SGS Fimko EN 62208	X	X	X	X	X	X	X	X	X			
SGS Fimko EN 60439									X			
UL	X		X		X		X	X				
cUL	X		X		X		X	X				
EAC	X	X	X	X	X	X	X	X	X			
Germanischer Lloyd	X		X		X		X					

Content of the product packages

Ensto Cubo series	S	D	O	C	W	P	M	N	H
Enclosure base	X	X	X	X	X	X	X	X	X
Cover/door	X	X	X	X	X		X	X	X
Cover screws	X	X	X	X	X		X		X
Cover plugs		X ¹							
Mounting screws	X	X	X	X	X		X		X
Mounting plate with required nuts									
Cover plate(s) for flange opening(s), bolts and nuts									
Extension frame + screws			X*	X*	X*				
Accessories for earth connection									
Lock and a key								X	

Material:

PC = polycarbonate
 ABS = acrylonitrile butadiene styrene
 GRP = glass reinforced polyester
 AL = aluminium

Certificates:

UL = Underwriters Laboratories, File # E 189312 (USA)
 cUL = Underwriters Laboratories, File # E 189312 (Canada)
 EAC = Russia, General Certificate
 Germanischer Lloyd = Germany, Category 'A'. Shipping Register

- 1 Cover plugs for cover screws
 - 2 Cover plugs for mounting holes (and hinge holes)
- * 187 mm deep standard enclosures

Notes

[illegible]

[illegible]

Ensto

Ensto is a family business and international cleantech company specializing in the development, manufacture and marketing of electrical systems and supplies for the distribution of electrical power as well as electrical applications. We are committed to lasting sustainable development and our goal is to be the world's leading company in green energy efficiency and distribution. Our products, manufactured in seven different countries, are environmentally friendly, energy efficient and leave a minimum carbon footprint.

Facts

- Established in 1958
- 1600 people in Europe, Asia and Americas
- Local presence in 20 countries
- Turnover EUR 260 million
- Headquarters located in Finland.

Cleantech

Cleantech refers to all those products, services, processes, and technologies which prevent or reduce the impact of harmful actions on the environment. Cleantech stands for higher quality, efficiency, and profitability. Ensto and other Finnish companies are already world leaders in several key cleantech sectors.



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