

FIBOX^{EK}

FOUR EASY STEPS TO BUILD A DISTRIBUTION PANEL THAT WORKS

BASE

FURNISH

CLAD

ROOF

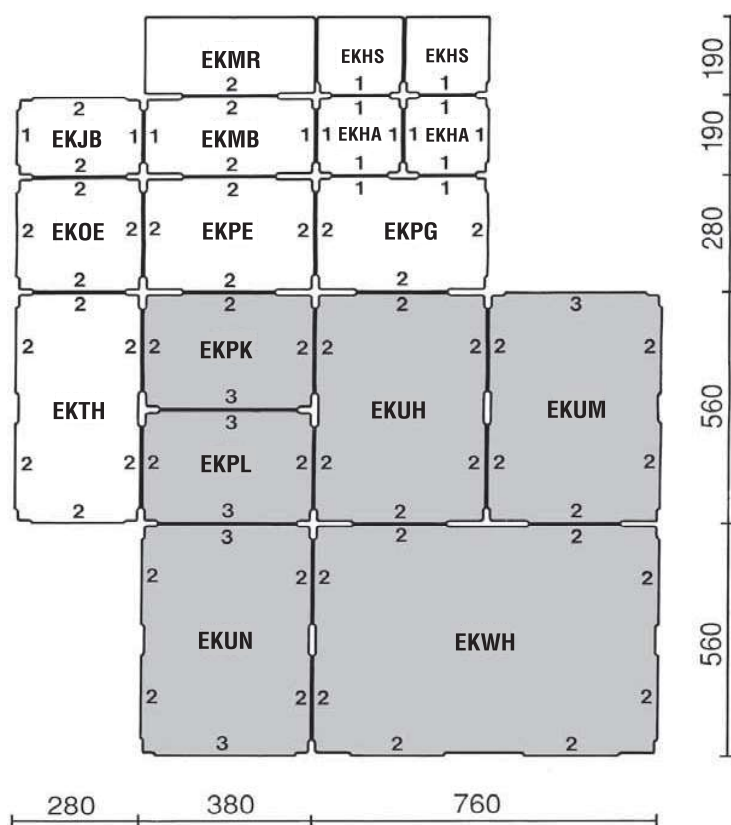
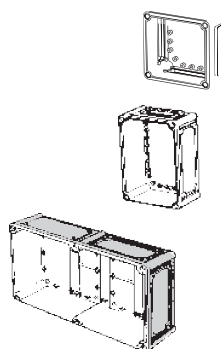


Medium to large size enclosures manufactured using impact resistant polycarbonate.

Available with one or more flange openings. The flange openings allow modular assembly of several enclosures and the addition of various size cable glands and knockout flanges. Select from a large selection of standard flanges or request flanges machined separately to customer specifications. The EK bases feature multiple mounting pods.

A large range of accessories is available.

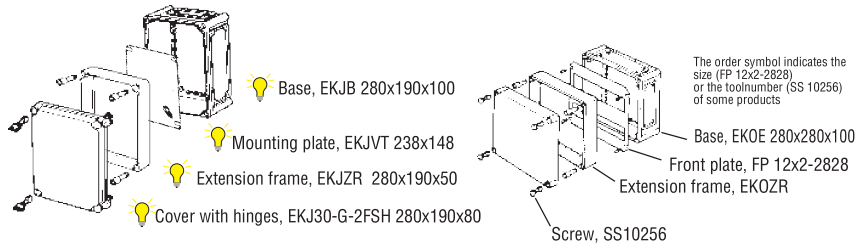
FIBOX EK



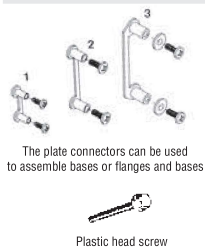
BASE

EXAMPLE OF THE ASSEMBLY OF ONE ENCLOSURE

 THE SIZE OF THE WHOLE ENCLOSURE ACCORDING TO THE LETTER:
The enclosure sized (280x190x230) can be assembled as follows:



ASSEMBLYING ENCLOSURES



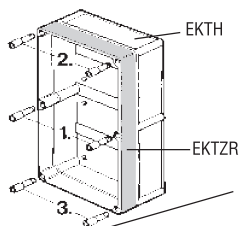
Connector set + 4 screws
Connector set + 4 screws
Connector set + 4 screws

Plastic head screw for the assembly of bases with size 1 opening
Plastic head screw for the assembly of bases with size 2 openings

Lock nuts for plastic head screws

ORDER SYMBOL	SIZE
MB 10671	1
MB 10670	2
MB 10672	3
MB 10472	M6x30
MB 10474	M8x30
M6	M6
M8	M8

EXTENSION FRAMES



Extension frame 50 mm, between base and cover.

	SIZE mm
EKJZR	280x190x50
EKMR	380x190x50
EKOZR	280x280x50
EKPZR	380x280x50
EKTZR	560x280x50
EKUZR	560x380x50



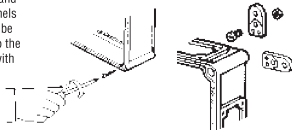
SUPPORT FLANGES



	ORDER SYMBOL	SIZE
Support flange	MB 10025	2
Support flange	MB 10026	1

WALL FASTENING LUG

Separate enclosures and small distribution panels (2-4 enclosures) can be assembled straight to the wall with screws or with wall fastening lugs.

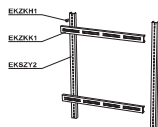


Wall fastening lug set, 4 pcs incl. screws

ORDER SYMBOL

MB 10674

FASTENING OF BIG SYSTEMS

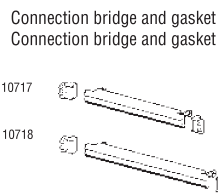
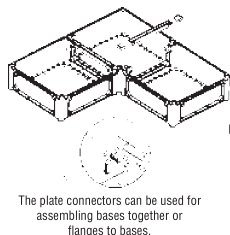


Connecting rail, standard length 2000 mm
Stud rail, standard length 2000 mm
Lock for connecting rail

ORDER SYMBOL

EKZKH1
EKZKH2
EKZKH3

THE BASE CONNECTORS

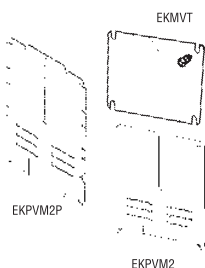


ORDER SYMBOL	SIZE
MB 10717	2
MB 10718	3



FURNISH

MOUNTING PLATES



Note!
EK-mounting
plates also for
Solid-enclosure.

Mounting plate, metal
Mounting plate, metal
Mounting plate, metal
Mounting plate, metal
Mounting plate, metal
Mounting plate, metal

KWh-mounting plate, metal
KWh- mounting plate, plastic
Accessory screws for mounting
the KWh meter

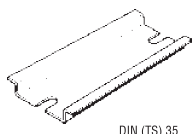
ORDER SYMBOL SIZE mm



EKHVT	148x148
EKJVT	238x148
EKMVT	338x148
EKOVT	238x238
EKPUT	338x238
EKTVT	518x238
EKUVT	518x338

EKPVM2	338x238
EKPVM2P	338x238
M6x16	6x16

DIN RAILS



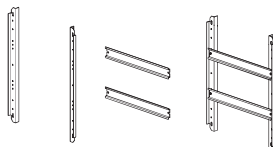
DIN (TS) 35

DIN-rail
DIN-rail
DIN-rail
DIN-rail
Self-cutting mounting screw

ORDER SYMBOL SIZE mm

EKV 12	35x160
EKV 22	35x235
EKV 32	35x335
EKV 50	35x500
MSM PT 5x10	4.8x9.5

DIN RAIL FRAME



DIN frame profile
DIN frame profile
DIN frame profile
DIN frame profile

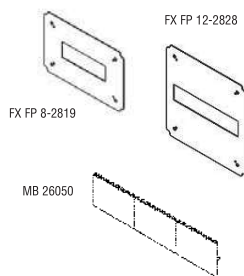
ORDER SYMBOL SIZE mm

MS PROF 19	87
MS PROF 28	166
MS PROF 38	266
MS PROF 56	444

Screws for DIN-rail (terminal) assembly order MSM PT 5x10

FX FP FRONT PLATES FX20 SET -CORNER STUDS

Note!
Openings for
DIN-modules



FX FP 8-2819

MB 26050

Blue 2 mm PC front plate
Blue 2 mm PC front plate
Blue 2 mm PC front plate
Blue 2 mm PC front plate

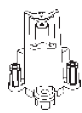
ORDER SYMBOL SIZE mm

FX FP 8-2819	280x190
FX FP 12-2828	280x280
FX FP 2*12-2838	280x380
FX FP 3*12-2856	280x560

Cover plate (12 mod.)

MB 26050

CORNER STUD FX 2000



FX20 SET

Set of corner studs FX 2000
Corner stud FX 2000 (separate)
Front plate screw FX 2000
PE/N brass bar
Screws for mounting PE/N
brass bar

ORDER SYMBOL SIZE mm

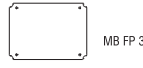
FX20 SET	
MB 10791	
MB 10792	
MS BAR 2+18	10x6.5x187
MR 28005EU	40x18

FURNISH

MB FP FRONT PLATES FOR MB 60MM BUS-BAR HOLDES



MB FP 2828



MB FP 3828

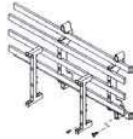


MB FP 5628

Blue 2 mm PC front plate
Blue 2 mm PC front plate
Blue 2 mm PC front plate

ORDER SYMBOL	SIZE mm
MB FP 2828	280x280
MB FP 3828	380x280
MB FP 5628	560x280

60 MM BUS-BAR



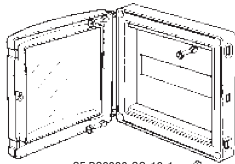
Bus-bar support set
incl. screws and support

ORDER SYMBOL
MB 60MM

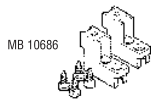
For assembling to middle of the enclosure use screws KN4.8x13

RATED CURRENT	250 A	400 A
Bus-bar sizes		
L1, L2, L3	20 x 5 mm	20 x 10 mm
PE/N	15 x 5 mm	15 x 5 mm

SOLID FRAME COVERS



SF PC2828-SG-12-1



MB 10686

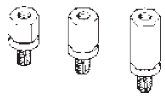
ORDER SYMBOL	SIZE mm
Solid Frame covers	
With opening 1x12 mod.	SF PC2828-SG-12-1 280x280x54
With opening 2x12 mod.	SF PC2828-SG-12-2 280x280x54

DIN-rail	EKV 22 35x235
----------	---------------

Note!
SOLIDFRAME cover fits to
EKOE and SOLID 2828 bases

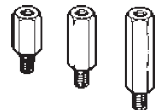
Extension for DIN rail/mbc MB 10686	15/34
-------------------------------------	-------

SPACERS



M6 spacers, self-cutting for corners of the base
M6 spacers, self-cutting for corners of the base
M6 spacers, self-cutting for corners of the base
M6 spacers, self-cutting for corners of the base

ORDER SYMBOL	SIZE mm
MR 10726	15
MR 10727	20
MR 10728	30
MR 10729	54



M6/M6 extension for MR spacer
M6/M6 extension for MR spacer
M6/M6 extension for MR spacer
M6/M6 extension for MR spacer

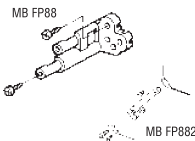
HR 10	10
HR 15	15
HR 20	20
HR 30	30



M5 spacers, self-cutting for
middle mounting pods

FA 12052	42
FA 12053	14

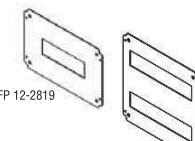
FP FRONT PLATES FOR FB88 AND FP882 SPACERS



MB FP88

Distance spacer for front plates,
1set, 2 pcs
Distance spacer for front plates,
1set, 2 pcs

ORDER SYMBOL	SIZE mm
MB FP88	88
MB FP882	88



FP 12-2819

FP 12X2-2828

FP front plate with DIN-openings
FP front plate with DIN-openings
FP front plate with DIN-openings

FP12-2819	280x190
FP12-2828	280x280
FP12x2-2828	280x280

FP front plate with DIN-openings
FP front plate with DIN-openings
FP front plate with DIN-openings

FP12x2-2838	280x380
FP12x3-2838	280x380
FP12x3-2856	280x560

N/PE-terminal bracket, incl. 2 pcs
of MR 26100 terminals (16-holes)

MB 26069SET

Terminal bus-bar clamp, 25 mm²
Terminal bus-bar clamp, 35 mm²

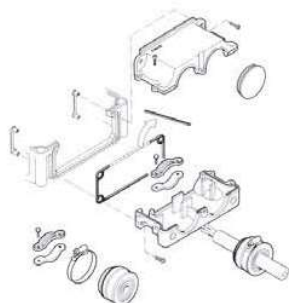
MS BAR CLAMP
MR 26145





GLAD

CABLE ENTRY BOXES



ORDER SYMBOL

Including: base, cover, cover screws, 1 blind plug, 1 pull-off, hose clamp with screws, membrane cable gland, and plate connector set.

MB 2260

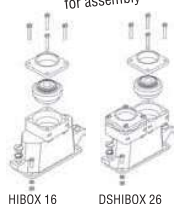
Accessory set
Including: membrane cable gland, pull-off, and hose clamp with screws.

MB 2260A



Use plastic head screws
for assembly

CABLE ENTRY



HIBOX 16

DSHIBOX 26



EPA 2160

EPA 2260



MK 10426

MK 10428

ORDER SYMBOL FLANGE SIZE

Cable entry, 1 cable (incl. rubber gasket)
Cable entry, 2 cables (incl. rubber gasket)

HIBOX 16
DSHIBOX 26

2
2

Cable entry (1 cable)
Cable entry (2 cables)
Cable entry (1 cable)
Cable entry (2 cables)

EPA 1130
EPA 1230
EPA 2160
EPA 2260

1
1
2
2

Rubber gasket for cable entry EPA 1130-1230
Rubber gasket for cable entry EPA 2160-2260

MK 10426
MK 10428

SIZE MM
10-31
28-60



CABLE GLANDS

METRIC!



Metric Cable gland, PA

PA=cable glands in polyamide

Grey RAL 7035

Temperature range

-40° (-+100°)

New metric
dimensions EN 60423!

Metric Hexagonal lock nut PA

B=lock nuts for cable gland,
polyamide

Membrane cable glands

EPDM

IP 65 (EN 60529)

Wall thickness (C) 1,5 -5 mm



Multifem



Membrane cable glands

Flame resistance UL 96-V2

Grey RAL 7035

Temperature range

-50°C -+70°C

Fet 5-7 for cables 5-7 ø

Fet 7-10 for cables 7-10 ø etc.

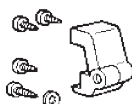
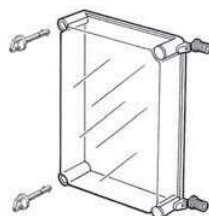
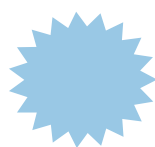
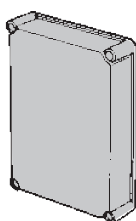
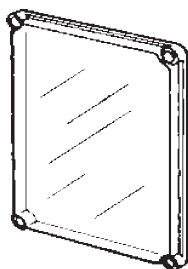
ORDER SYMBOL	FOR CABLE mm	METRIC SIZE	CLEARANCE HOLE Ø mm
GPA M12	3-6	M12x1,5	12,5
GPA M16	5-10	M16x1,5	16,5
GPA M20	8-13	M20x1,5	20,5
GPA M25	11-17	M25x1,5	25,5
GPA M32	15-21	M32x1,5	32,5
GPA M40	19-28	M40x1,5	40,5
GPA M50	27-35	M50x1,5	50,5
GPA M63	32-42	M63x1,5	60,5

GPA M12-B	M12x1,5
GPA M16-B	M16x1,5
GPA M20-B	M20x1,5
GPA M25-B	M25x1,5
GPA M32-B	M32x1,5
GPA M40-B	M40x1,5
GPA M50-B	M50x1,5
GPA M63-B	M63x1,5

FEM 3-5	3-5	M12	12,5
FEM 5-7	5-7	M16	16,5
FEM 7-10	7-10	M20	20,5
FEM 10-14/23	10-14	M23/PG16	23,5
FEM 10-14/25	10-14	M25	25,5
FEM 14-20	14-20	M32	32,5
FEM 20-26	20-26	M40	40,5
FEM 26-35	26-35	M50	50,5
FEM 30-45	30-45	M60	60,5

ORDER SYMBOL	FOR CABLE mm	CLEARANCE HOLE, PG
FET 5-7	5-7	PG 9
FET 7-10	7-10	PG 11
FET 8-14	8-14	PG 16
FET 14-20	14-20	PG 21
FET 20-26	20-26	PG 29
FET 26-35	26-35	PG 36



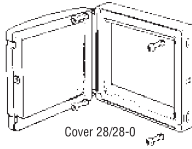
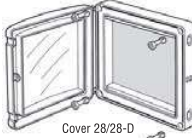


ROOF

COVERS SCREWS

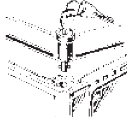
	ORDER SYMBOL	FOR COVERS
 ——— Wing head screw	HS 10255	30
 ——— Slotted head screw, sealable	SS 10535	30
 ——— Triangle head screw	DS 10581	30/80/100
 ——— Cross head screw	CS 10256	30/100
 ——— Slotted head screw, quick-lock, *)	SS 10544	30/100
 ——— Wing head screw, quick-lock, *)	HS 10533	30
 ——— Quick-locking wing head screw, hinged, *)	HS 10532	30
 ——— *) Threaded bushing	MB 10534	
*) Threaded bushing (needed for quick-locking screws)		
 ——— Cross head screw	SS 10563	80
 ——— Wing head screw	HS 10562	80
 ——— Noryl slotted head screw (good chemical resistance)	SS 10256N	30
 ——— Noryl wing head screw (good chemical resistance)	HS 10255N	30
Set of four cross head screws	SS 10256-4	30/100
Set of six cross head screws	SS 10256-6	30/100
Set of four cross head screws	SS 10563-4	80

SOLID FRAME

	ORDER SYMBOL	SIZE mm
 Frame, with opening	Cover 28/28-0	280x280
Front plate aluminium	FP 28/28	
 Frame, no opening	Cover 28/28-D	280x280
Key lock set	MR 26065	

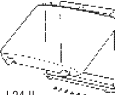
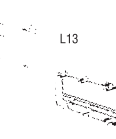
Solid Frames also fit EKOE and SOLID 2828 beses.

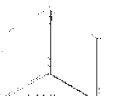
KEY-LOCK SET

	ORDER SYMBOL
 Key-lock set incl., lock and 2 keys for 30 mm covers	MB 10597

INSPECTION WINDOWS

The order symbol indicates the amount of the DIN modules for example L08=8 modules.

	ORDER SYMBOL	SIZE mm
 Windows, IP 65	L12 II	248x128
 Windows, IP 65	L24 II	248x128
 Windows, IP 65	L12	248x128
 Windows, IP 65	L24	248x128
Windows, IP 65	L13	257x108
Windows, IP 54	L10	199x77
Windows, IP 54	L08	162x77
Windows, IP 54	L06	130x77
Windows, IP 54	L04	96x77
Windows, IP 54	L02	60x77
 Front plates for L 12 windows	B12 10621-45	
 Front plates for L 24 windows	B24 10620-45	
Large size windows, IP 65, for enclosure EKW 100-G	L44 II	377x331
	L43 II	331x277



L 12 clear



L 12 II transparent smoked grey



L 13 clear



SOLID FRAME application



L 24 clear

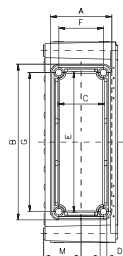


L 44 II transparent smoked grey

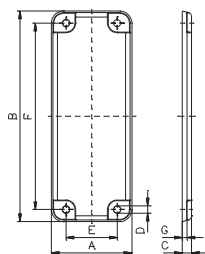


L 43 II transparent smoked grey

DIMENSIONAL DRAWINGS



FLANGE OPENINGS								
Plate size	Dimensions							
	A	B	C	D	E	F	G	M
1	48	138	33	7	121	30	120	31
2	86	217	63	9,5	195	62	193	52
3	127	332	101	11,5	306	80	292	71



COVER PLATES									
Order symbol	Plate size	Dimensions							
		A	B	C	D	E	F	G	
MB 10215	1	49	140,5	10	7	30	120	5	
MB 10546	2	85	217	10	9,5	62	193	5	
MB 10324	3	127	332	15	11,5	80	292	8	

TECHNICAL INFORMATION

PROPERTY	POLYCARBONATE (PC)	CONFORMITY TO STANDARDS
Ingress Protection (EN 60529)	IP66/IP67	USA Enclosures for Electrical Equipment PC: UL Type 1, 3, 3S, 4, 4X, 6, 6P and 12 (UL 50/508)
Impact Resistance (EN 50102)	IK 08	Canada Industrial Control Equipment Enclosures for Electrical Equipment/ULc
Temperature Range Celsius (short term)	-40°...120°C	Europe Enclosures for Switch Gear and Control Gear Assemblies EN 50298:1998
Temperature Range Fahrenheit (short term)	-40°...250°F	Europe Safety of Information Technology Equipment EN 60950
Temperature Range Celsius (continuous)	-40°...80°C	Australia Enclosures for switch gear and control gear AS 3132-1991
Temperature Range Fahrenheit (continuous)	-40°...175°F	DNV PC: DNV Rules for Classification of Ships and Mobile Offshore Units
Electrical Insulation	Totally insulated	GL PC: GL Regulations for the Performance of Type Test, Part 1
Light Grey Parts Colour	RAL 7035	LR Marine offshore and industrial installations
Transparent Clear PC Cover	Industry Grey	BV BV Rules
Cover Screws	Clear Transparent	UL 746 C 5 in. vertical flame test
Cover Screws	RAL 7035	IEC 695-2-1, Self-extinguishing
Gasket	Polyamide (PA)	DIN/VDE 0472, Part 815
Enclosure Flammability Rating	PUR	CE, FI-mark
Glow Wire Test	UL94-5V	
Non-toxicity	960°C	
UV resistance	Halogen Free	
Chemical Resistance *	UL 508	
	720 hours in "Weatherometer"	
	Good	

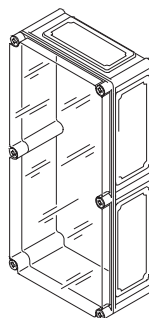
Data subject to change without notice. *Consult separate raw material data for more detailed information

NEW!

EK enclosure sets

Some most popular EK sizes are now available as complete enclosures with just one order symbol.

Sets include base, cover and cover screws. Naturally same wide SOLID/EK accessory range allows you to customise these "easy-to-order" sets to your needs.



EKTH 130 T

ORDER SYMBOL	SIZE mm	
EKHA 130 G	190x190x130	
EKJB 130 G	280x190x130	
EKMB 130 G	380x190x130	
EKOE 130 G	280x280x130	
EKPE 130 G	380x280x130	
EKTH 130 G	560x280x130	
EKUH 180 G	560x380x180	
EKWH 250 G	760x560x250	
EKHA 130 T	190x190x130	
EKJB 130 T	280x190x130	
EKMB 130 T	380x190x130	
EKOE 130 T	280x280x130	
EKPE 130 T	380x280x130	
EKTH 130 T	560x280x130	
EKUH 180 T	560x380x180	