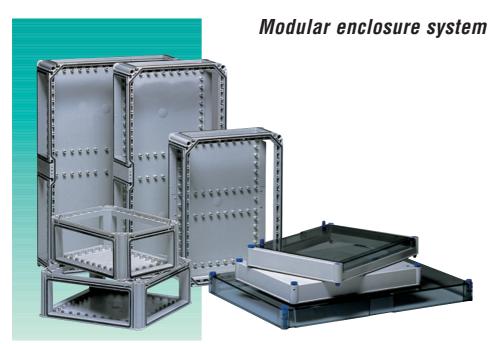
<u>VMS</u>



Applications

- Industry
- Public utilities
- Multi motor panels
- Electronic instrumentation
- Low voltage panelboards

Standards

IEC 60439-1 IEC 60529 EN 60439-1 EN 60529 EN 50298 DIN VDE 0660 - Teil 500 BS 5486 Part 1

Approvals

U

KEMA

- 3R, 3S, 5, 12 and 12K - Modular system: types 2,
- 3, 3R, 3S, 5, 12 and 12K
 Modular system using 853063: types 2 and 3R
 Boxes with internal

Single boxes: types 2, 3,

- hinged cover: types 2, 5, 12 and 12K
- Boxes with external hinges: type 2



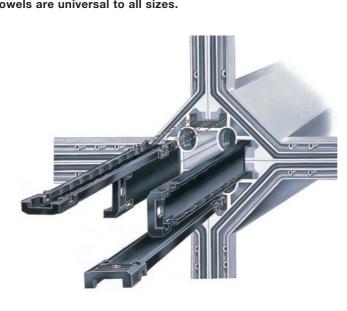
Features

- The range consists of five boxes based on a 100 mm module.
- The innovative coupling concept allows easy, rapid assembly of any combination of units without the need for tools.
- The open bases offer excellent accessebility and wiring space for installation, mounting and cable connection, even after coupling.
- The side panel openings can be closed by either blind or combi end plates. Once mounted, end plates fit perfectly flush with the side panels of the base.
- Each large box is a multiple of a smaller one. Its fixing points in increments of 25 mm in bottom plate and top end are also a multiple of those of a small box.
- The base and end plates are made of light grey (RAL 7035) glassfiber reinforced polycarbonate. The cover is made of either transparent or opaque light grey (RAL 7035) polycarbonate.
- A multiple of accessories like mounting plates, cover plates, depth extension frame, ... makes the VMS a complete system for electrical distribution and control applications.
- VMS boxes are halogen-free, corrosion resistant and require no maintenance.
- VMS boxes provide optimum security to both operations and equipment because they feature total insulation in and protection degree IP65 according to IEC 60529 and EN 60529.
- This protection covers the total volume of the enclosure according to EN 50298.



Coupling system

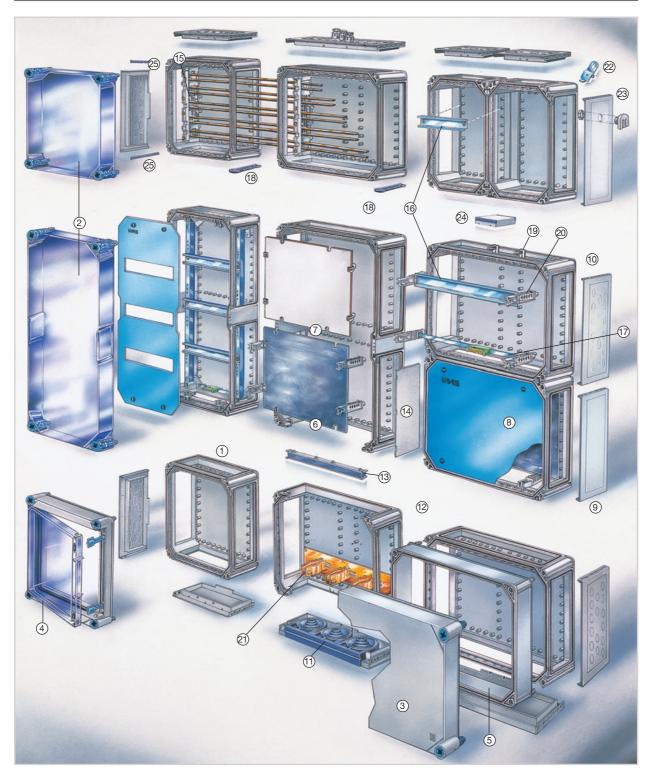
The enclosures are coupled by means of vertical dowels, inserted into the corner shafts. These dowels are universal to all sizes.



End-plates installation



Modular insulated enclosures system



- 1) Base
- (2) Transparent cover
- 3 Opaque cover
- 4 Hinged cover
- 5 Depth extension frame
- 6 Mounting plate in metal
- O Mounting plate in pertinax
- (8) Blind cover plate
- (9) Blind end-plate

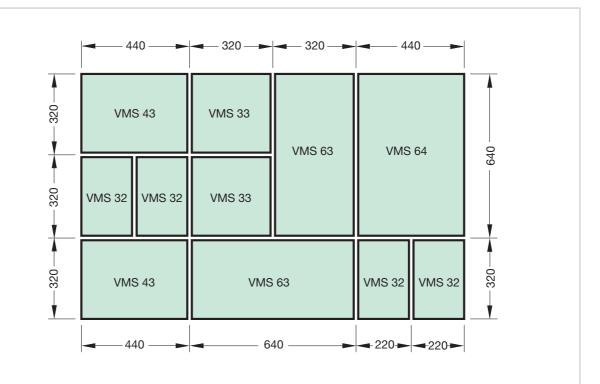
- 10 Combi end-plate 11 Cable end-plate
- 12 Cable stress release
- 13 Bridge
- Partition plate
- 15 Busbar support
- 16 DIN-profile
- 1 Mounting rail 12 x 2 mm
- 18 Coupling dowels

- (19) Coupling clamp
- 20 Universal support
- 2 Stress relieving cable clamp
- Pixing bracket
- 23 Air vent
- 24 Coupling set 2 x 220 mm
- 25 Locking key

Technical specifications

individual and coupled	IP65
with coupling set 2 x 220	IP44
with extension frame	IP65
with cable entries	IP43
with bridges	IP55
Protection degree against external	
mechanical impacts according to EN50102	
base + end plates	IK08
covers	IK10
Materials	
bases + end plates	reinforced fibre-glass
	polycarbonate
covers	polycarbonate
cover screws	polyamide
gaskets	PUR, neoprene
Temperature resistance	
materials	see page J.6
continuous use	-20°C up to +80°C
Colours	
bases + end plates	RAL 7035
covers	RAL 7035 / transp.
Protection	Total isolation
Rated voltage	690VAC / 800VDC
Rated insulation voltage	690VAC
Rated current	max. 1250A
Rated short time withstand current	max. 30kA (0.3 s.)
Rated peak short-circuit current	max. 65kA peak
Standards	EN 60439-1
	DIN VDE 0660 -
	Teil 500
	BS 5486 Part 1
	IEC 60439-1

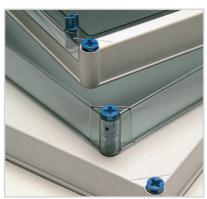
Recommended configuration for optimal modularity



Features and Benefits



Modular dimensions in increments of 100 mm in height and width, available in five sizes: 320 x 220 mm 440 x 320 mm 640 x 320 mm 640 x 440 mm



Assorted covers: transparent, opaque, or hinged, common design and depth.



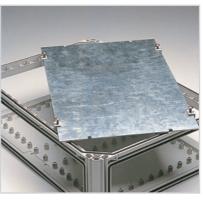
Time saving coupling by means of vertical dowels, inserted into corner slots.



End-plates, combi or blind, are snapped on from the outside and fixed by means of vertically sunk keys.



Once mounted, end-plates fit perfectly flush with the side panels of the base.



Rectangular mounting plates (2 mm in metal or 5 mm in laminated pertinax) with mounting set. Usable mounting depth is maximised and not dependant on plate thickness.

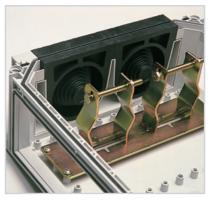


Universal support for screwless and depth adjustable installation of component rails.

The support is simply clicked over the base.



Bridges are inserted after connection of cables (320 and 440 mm sides).



Universal cable entries and stress relieving cable clamps for cables up to \emptyset 75 mm can be located in any base on side 320 mm (for two cables) or on side 440 mm (for three cables).

NMS

VMS

Modular syste							
		Туре	VMS 32	VMS 33		VMS 63	VMS 64
	Base	H x W x D	320 x 220 x 130	000 × 000 × 100	440 × 200 × 120	640 x 320 x 130	C40 × 440 × 1
	With four open sides	Ref. No.	853000 4	320 x 320 x 130 853001 2	440 x 320 x 130 853002 2	853003 1	640 x 440 x 1 853004 1
	Transparent cover	HxWxD	320 x 220 x 50	320 x 320 x 50	440 x 320 x 50	640 x 320 x 50	640 x 440 x 5
	With slotted screws	Ref. No. Pack.	853005 4	853006 2	853007 2	853008 1	853009 1
	Opaque cover	H x W x D Ref. No.	320 x 220 x 50 853010	320 x 320 x 50 853011	440 x 320 x 50 853012	640 x 320 x 50 853013	640 x 440 x 853014
With sk	With slotted screws	Pack.	4	2	2	1	
	Hinged cover	H x W x D Ref. No.		320 x 320 x 50	440 x 320 x 50	-	
Terrer.	With double closure system	Pack.		853015 2	853016 2	-	
	Depth extension frame With fixing screws	H x W x D Ref. No. Pack.	320 x 220 x 75 853030 4	320 x 320 x 75 853031 2	440 x 320 x 75 853032 2	640 x 320 x 75 853033 1	640 x 440 x 853034 1
	Mounting plate						
	Metal, 2 mm With mounting set	H x W Ref. No.	260 x 160 853068	260 x 260 853069	380 x 260 853070	580 x 260 853071	580 x 380 853072
	Pertinax, 5 mm With mounting set	H x W Ref. No.	260 x 160 853113	260 x 260 853114	380 x 260 853115	580 x 160 853116	580 x 380 853117
		Pack.	1-10	1-10	1-10	1-10	1-10
	Plain cover plate	H x W Ref. No. Pack.	301 x 201 853103 1-10	301 x 301 853104 1-10	421 x 301 853105 1-10	621 x 301 853106 1-10	621 x 421 853107 1-10
	2 mm With mounting set						



С



Accessories

Combi end-plates				Combi end-plate	es	
OLD				NEW		
Caracteristics PG	Ref. No.	Pack.	Side (mm)	Caracteristics Metric	Ref. No.	Pack.
3 x PG29	853018	1/10	220	3 x M32/M25 + 3 x M20	855029	1/10
1 x PG42 + 4 x PG16	853019	1/10	220	1 x M50/M40 + 4 x M25/M20	855030	1/10
6 x PG29	853021	1/10	320			
3 x PG42 + 4 x PG16	853022	1/10	320	3 x M50/M40 + 4 x M16	855032	1/10
22 x PG13.5	853023	1/10	320	17 x M20	855033	1/10
4 x PG29 + 2 x PG21 + 4 x PG16	853024	1/10	320	1 x M50/M40 + 2 x M32/M25 + 4 x M25/M20	855034	1/10
16 x PG16	853025	1/10	320	12 x M25/M20	855035	1/10
8 x PG21 + 4 x PG16	853026	1/10	320	4 x M40/M32 + 3 x M20	855036	1/10
26 x PG 16	853028	1/10	440	1 x M40/M32 + 16 x M25/M20	855037	1/10
4 x PG29 + 4 x PG21 + 6 x PG16	853029	1/10	440	1 x M50/M40 + 2 x M40/M32 + 8 x M25/M20	855038	1/10





Side (mm)		
220	853017	1/10
320	853020	1/10
440	853027	1/10

Blind end-plates

Cable entries

Side (mm)

320

Bridges Side (mm)

320 853073 1 440 853074 1 For large cross-section cables









440	853083	1/5
Ø max. of cable: 3	x 75 mm	
Cable stress re	lease	
0.1.()		

Ø max. of cable: 2 x 75 mm

853082 1/5

Side (mm)		
320	853036	1/5
440	853037	1/5

With one clamp Ø max. of cable: 75 mm



Cable clamp To mount on cable stress release

853035 1 Ø max. of cable: 75 mm

853059 For base coupling

Coupling key

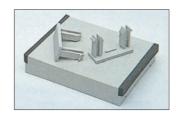


20

10

Coupling set 2 x 220

853063 1 To couple 2 sides of 220 mm to one side of 440 mm With mounting accessories



Coupling clamp

853062 For coupling in special cases



A AND

Universal support

853060 10 To fit: - mounting plates (metal or synthetic) - cover plates - copper rail 15 x 3

- copper rail 9 x 6.5
- mounting rail 12 x 2 mm





Accessories (continued)



Symmetrical	DIN-profiles	
Side (mm)		
220	853094	1
320	853095	1
440	853096	1
Always supplied	with two universa	l
supports		

Mounting rail 12 x 2 mm

To fit connection terminal blocks Always supplied with two universal

853097

853098

853099

853065

853066

853067

For full compartimentalisation of coupled

1

1

1

1

1

1

Side (mm)

220

320

440

supports

320

440

bases

Partition plates Side (mm) 220

Hinge screw

853061	
Base must be fixed prior to	
hinge installation	
Set of 2 pieces.	



Hinges

853340 In order to enable hinge mounting, holes must be drilled in the cover and in the base. Templates for drilling are supplied with each set. Each set consists of two hinges, screws, a drilling template, the mounting instructions and spacer shims. Set of 2 pieces.

1



Thumb grip

853058	1
For cover screw or hinge screw.	
Set of 4 pieces.	
0	

853100

853101

853102

851384

851385

828056

50

50

50

500

500

1m

Self-tapping screws

For fixation in the base.

To fasten components to metallic

5 x 13

5 x 16

5 x 22

6 x 16

6 x 22

mounting plates.

Blanking plate

For 45 mm cut-out











- Direct fitting through the corner shafts of the base
- To be installed prior to extension frame or hinge installation
- Three optional mounting positions (0°, 45°, 90°)



Air vent

853123 1 Install two air vents per enclosure to allow ventilation and prevent condensation. Set of 2 pieces.

Marking strip

851321 1m Self-adhesive



C.10

