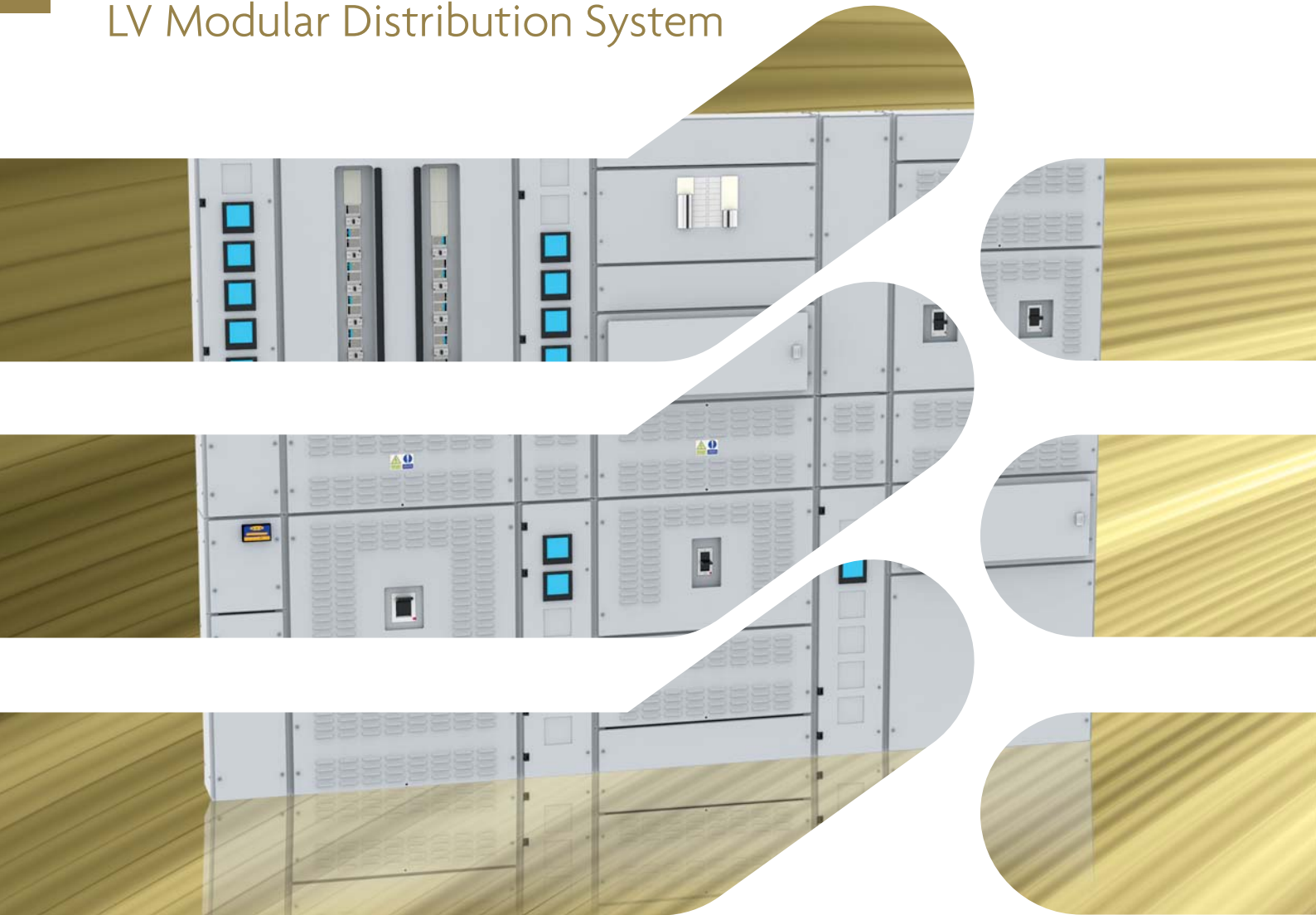
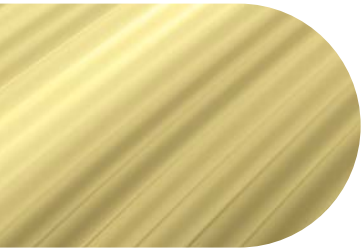
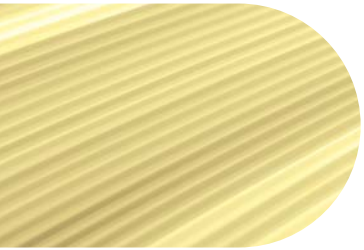
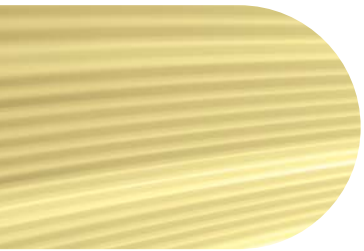


Modis 12 Ultra

LV Modular Distribution System





Dorman Smith Switchgear Limited

With over 130 years of experience in switchgear design and production Dorman Smith Switchgear Limited continues to provide high quality equipment for low-voltage electrical distribution and circuit protection.

Our product range begins with single-pole and neutral distribution board systems and continues up to custom designed, factory built low-voltage electrical switchboards for a broad range of commercial, industrial and retrofit applications.

We continue to build on our extensive technical knowledge and awareness of customer and market demands, operating conditions and current regulations.

This breadth of experience supports the development and manufacturing techniques of our electrical products to exceed the industry standards.

Index

Content	Page No
Introduction to Dorman Smith Switchgear Limited	1
Modis 12 Ultra Key Features	2-3
Product Selection Charts	4-5
Horizontal busbars, Device enclosures and connections	6
Add On Enclosures	7
Panelboards	8-9
MCB Distribution boards and Surge Protection	10
Accessories	11
Modis 12 Ultra Technical Data	12
Notes	13

Modis 12 Ultra

LV Modular Distribution System

Key Features

The flexible modular concept of Modis 12 Ultra allows design and build of distribution systems that meet the exact power expectations and space limitations of individual schemes up to 1250A.

Utilising MCB, MCCB and fuse combination unit technology, Modis 12 Ultra offers an extensive range of incomers, busbars, interconnections, service centres, MCB distribution boards and ancillary devices which are easily assembled in a variety of switchboard configurations, from Form 3 section panels through to complex Form 4 multi-section switchboards. Panels are wall mounted and have gland plates for either top and/or bottom cable entry. The standard finish is epoxy powder coating in light grey RAL 7035.

Compliance

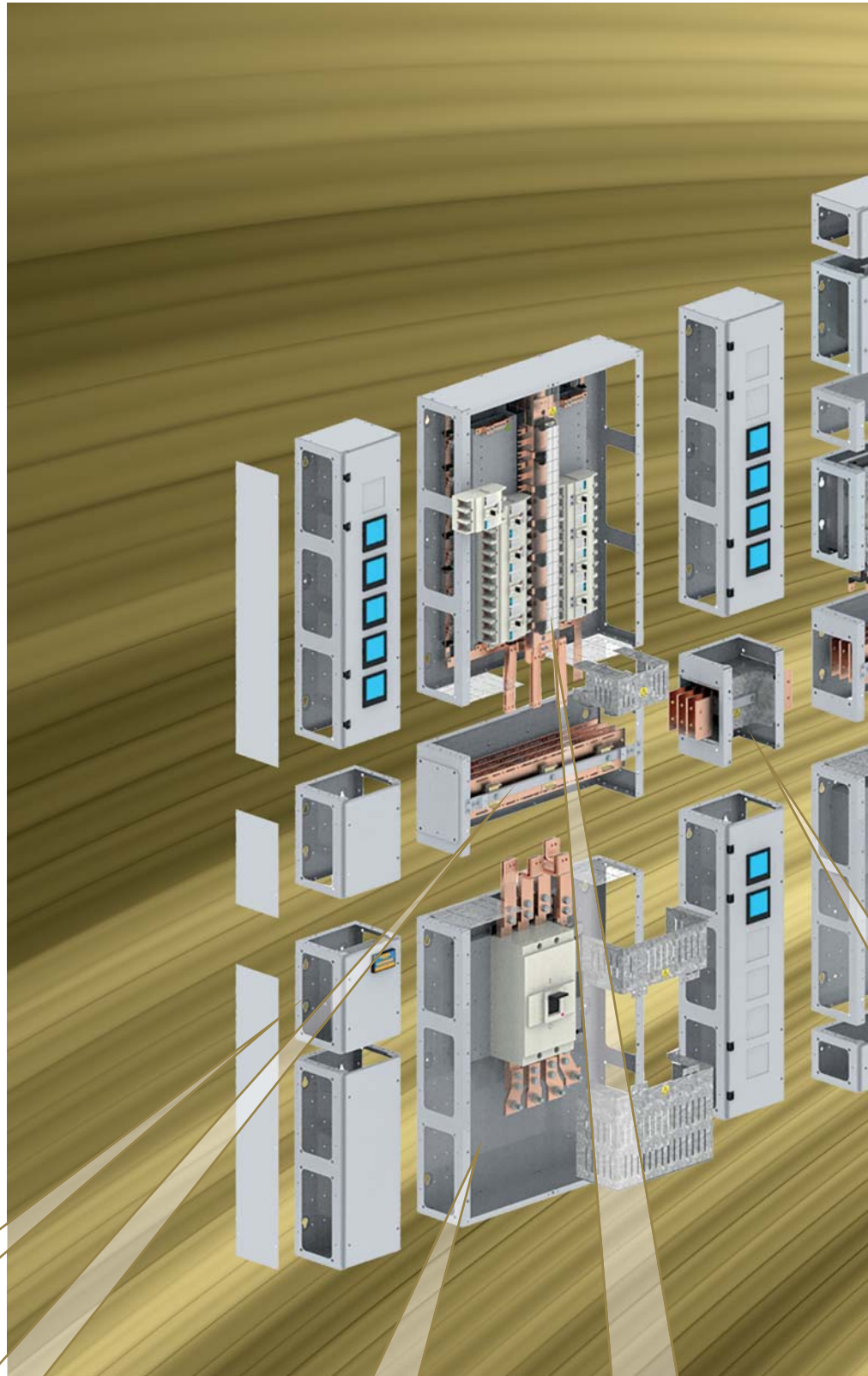
Distribution System	EN 61439-2
MCCBs	EN 60947-2
Loadswitches	EN 60947-3

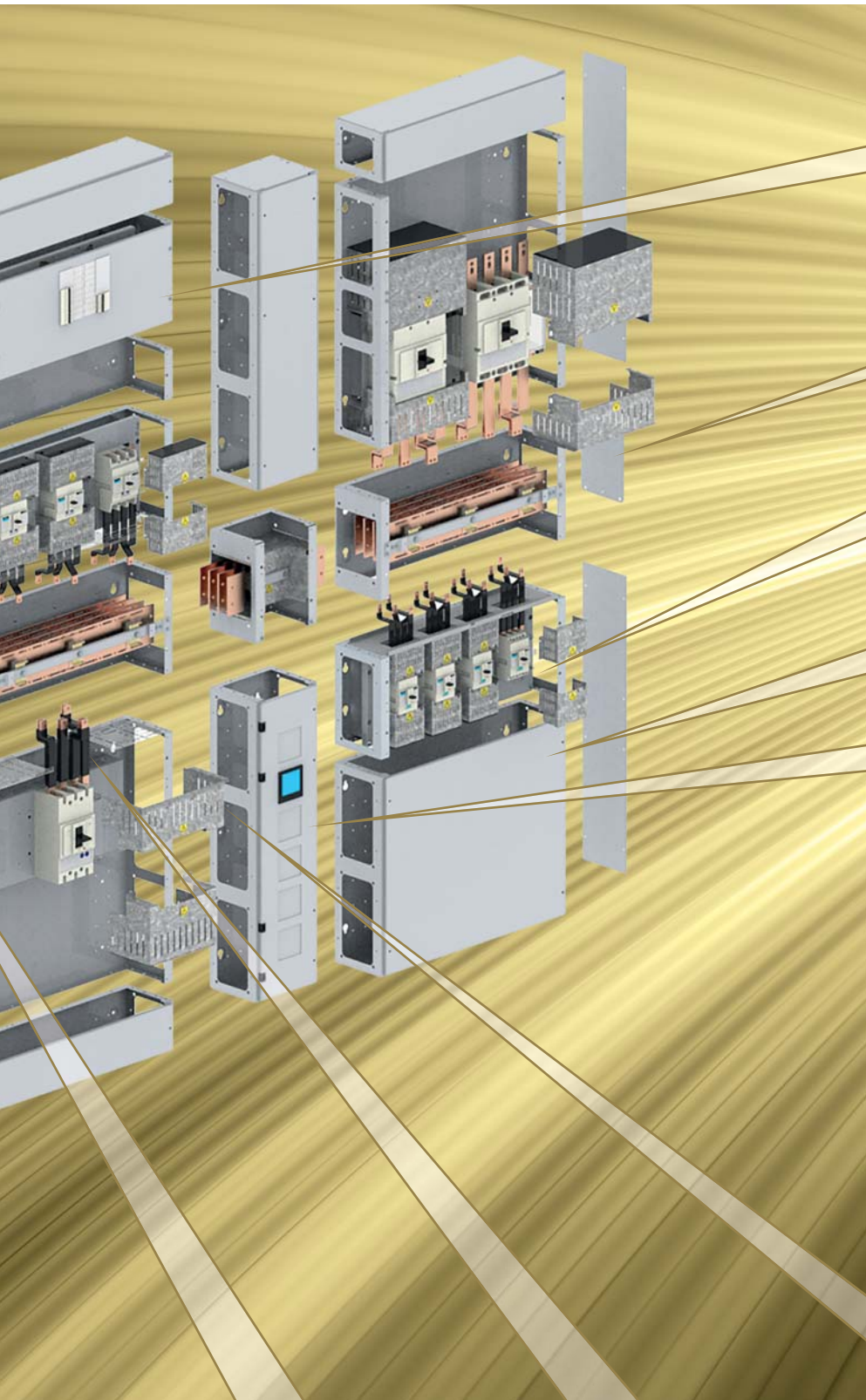
Surge protection devices.

4-pole horizontal copper busbars ASTA certified with a short circuit withstand rating of 25kA for 1 second for 630A and 50kA for 1 second for 1250A.

Dedicated enclosures for various device sizes complete with rigid terminal shrouds. Neutral links also available to match each MCCB frame size.

Panel boards are available to accommodate fuse switches or YA3/YB3 MCCBs.





MCB Distribution Boards

Side plates.

Multiple device enclosures available for smaller devices.

General purpose enclosures in various modular sizes.

Cableways with meters fitted to hinged door.

For full information on panel boards, devices and accessories please refer to the relevant Dorman Smith product publication.

Rigid polycarbonate/sheet steel barriers supplied to segregate busbars from incoming/outgoing units.

Cableway busbars shielded to allow cables to pass in front of them.

Dedicated copper connections to horizontal busbars for each device.

Modis 12 Ultra Product Selection Chart

LV Modular Distribution System

Busbars 630A

630A Busbars are 244.80mm high. If an empty cableway is required MBBECW must be used.



MBB63

630A Busbars
Use **MBB63L** busbar links to join two busbars together

MBB63CW

630A Cableway Busbars
(MBB63L not required)

MBBECW

Empty Cableway Alongside 630A Busbars

Busbars 1250A



MBB12

1250A Busbars
Use **MBB12L** busbar links to join two busbars together

MBB12CW

1250A Cableway Busbars
(MBB12L not required)

MCCB Enclosures



MHYB1X4

Enclosure for 4 x YB1 MCCB
MCYB1
B/B connections
YB1NL
Neutral link



MHYB3X3

Enclosure for 3 x YA3/YB3 MCCB
MCYB3
B/B connections
YB3NL
Neutral link



MHYA5X1

Enclosure for 1 x YA5 MCCB
MCYA5
B/B connections
YA5NL
Neutral link

NOTE: When using MCCB enclosures refer to Page 6 for additional information on assembly ratings.
If using the YA6, YA7 or YA8 frame size MCCB as an outgoing device this should NOT be mounted below the horizontal busbars.



MHYA6X1

Enclosure for 1 x YA6 MCCB
MCYA6
B/B connections
YA6NL
Neutral link



MHYA6X2

Enclosure for 2 x YA6 MCCB
MCYA6
B/B connections
YA6NL
Neutral link



MHYA7X1

Enclosure for 1 x YA7 MCCB
MCYA7
B/B connections
YA7NL
Neutral link



MHYA8X1

Enclosure for 1 x YA8 MCCB
MCYA8/MCYA84P
B/B connections
YA7NL
Neutral link

Loadswitch Enclosures



MHFS200X3

Enclosure for 3 x 200A SF Loadswitch
MCFS200
B/B connections



MHFS400X1

Enclosure for 1 x 400A SL Loadswitch
MCFS400
B/B connections



MHFS400X2

Enclosure for 2 x 400A SL Loadswitch
MCFS400
B/B connections



MHFS800X1

Enclosure for 1 x 800A SN Loadswitch
MCFS800
B/B connections

MCB Boards & Service Centres



LDT212X* 2 x 12 Way TP&N
LDT112X 1 x 12 Way TP&N
LDT106X 1 x 6 Way TPN
LDS17 17 Way SP&N
LDS24 24 Way Service Centre
*Not suitable for SP RCBOs

Door Kits

LD2D12X
LD1D12X
LD1D06X
LD1DS
LD1DS

Notes: All cableways are 250mm wide and main units are 750mm wide. Heights are given in 152.4 modules. Eg 2 is 2 modules = 304.8mm. All units have side plates except device enclosures, cableways and cableway busbar links which have none. All units are supplied with at least one end plate except Form 4 panelboards, MCB boards, GP enclosures and cableways which have 2. More detail on each unit can be found on the following pages. For device selection please refer to the relevant Dorman Smith product publication.

Surge Protection

LECK2SP C/W DSP600

Type 2 surge protection device with remote indicator in 2 mod cableway enclosure

LECK2SM C/W DSP600

Type 2 surge protection device with remote indicator in frame for use in a standard cableway enclosure

LECM2SP C/W DSPT3PN

Type 1 surge protection device in 2 mod cableway enclosure

LECM2SM C/W DSPT3PN

Type 1 surge protection device in frame for use in a standard cableway enclosure

Product Selection Chart

Modis 12 Ultra LV Modular Distribution System

Panel boards

Loadbank 250 Form 3a MCCB Boards



LB418YA3	400A, 18 way
LB818YA3	800A, 18 way
LBDD18	18 way door
LB412YA3	400A, 12 way
LB812YA3	800A, 12 way
LBDD12	12 way door
LB406YA3	400A, 6 way
LB806YA3	800A, 6 way
LBDD06	6 way door
MCLB400	400A Busbar Connections
MCLB800	800A Busbar Connections

Loadbank 250 Form 3a YA5 MCCB Board



LB802YA5	800A, 2 way (cannot be used with form 4 boards)
LBDD02	2 way door
MCLB800	800A Busbar connections

Loadbank 250 Form 4b MCCB Boards



LF810YA3	800A, 10 way
LFD10	10 way door
LF806YA3	800A, 6 way
LFD06	6 way door
MCLF800	800A Busbar connections

Loadbank 200 Form 4a Loadswitch Boards



LF810A	800A, 10 way
LF806A	800A, 6 way
MCLF800	800A Busbar connections

Outgoing terminal shrouds **MUST** be fitted to achieve form 4. Refer to page 9 for catalogue numbers

Panelboard Interconnections

LBCK4	400A LB250 to LB250
LBCK8	800A LB250 to LB250
LBSKE	LB250 top connection kit
LCFVK	800A Form 4 LB250 to Form 4 LB250

Add-on Enclosures

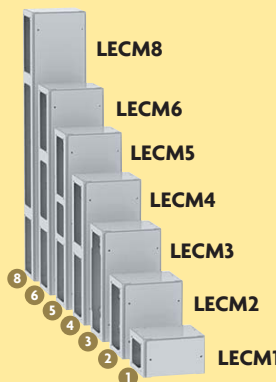
General Purpose Enclosures



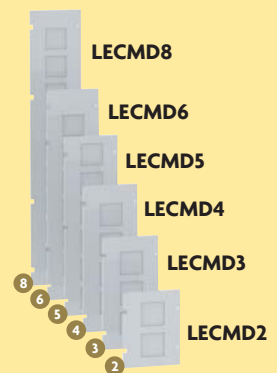
Enclosure Hinged Front Plates

MXPF6HS
MXPF5HS
MXPF4HS
MXPF3HS
MXPF2HS

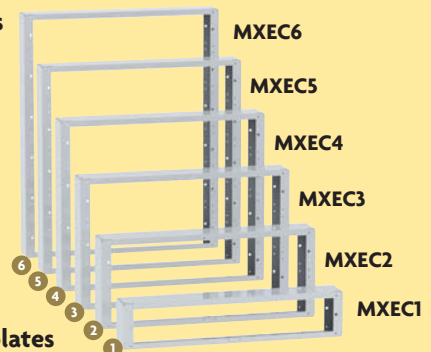
Cableways



Cableway Hinged Meter Plates



Accessories Extension Collars



Side/End plates

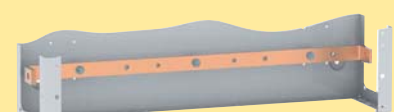
MXPE1F	1 module high side plate
MXPE2F	2 module high side plate
MXPE3F	3 module high side plate
MXPE4F	4 module high side plate
MXPE5F	5 module high side plate

MXPE6F	6 module high side plate
MXPE8F	8 module high side plate
LGES	Steel End Plate
MXHCS	Horizontal Cross strap
MXEPF	Horizontal Partition kit

Earth Bars

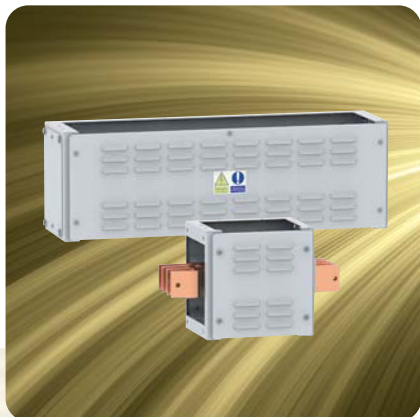


MEB250
250mm wide earth bar
(box not included)



MEB750
750mm wide earth bar
(box not included)

Modis 12 Ultra LV Modular Distribution System



Horizontal Busbars

- Depth is 200mm. Height and width is as per the table below.
- 750mm wide units supplied with one end plate and side plates.
- 250mm wide units supplied with one end plate and no side plates.
- MBB**CW unit links two horizontal busbars across a 250mm wide cableway.
- Ingress protection of IP3X.

Note! 630A busbar also has a conditional rating Icc 50kA, 415Vac.

Current rating (A)	Short circuit withstand rating	Modular height	Height (mm)	Width (mm)	Weight (kg)	Product Code
630A	25kA for 1 second	N/A	244.8	750	20	MBB63
630A	1 second	N/A	244.8	250	13	MBB63CW
630A	Copper busbar links to join 2 x 750mm wide busbars*					MBB63L
1250A	50kA for 1 second	2	304.8	750	32	MBB12
1250A	1 second	2	304.8	250	19	MBB12CW
1250A	Copper busbar links to join 2 x 750mm wide busbars*					MBB12L

*Not required with MBB**CW unit.

Device Housings

- Form 4 as standard
- Width is 750mm and depth is 200mm. Height as per the table below.
- Supplied with one end plate and no side plates. See page 11 for optional side plates.
- Ingress protection of IP3X.
- Devices and neutral links are supplied separately. See relevant publications for details.

Assembly current rating (A)	Modular height	Height (mm)	Weight (kg)	Device type	Product Code
400A	2	304.8	17	4 x YB1 MCCB	MHYB1X4
500A	2	304.8	18	3 x YB3 MCCB	MHYB3X3
400A	5	762.0	23	1 x YA5 MCCB	MHYA5X1
630A	5	762.0	27	1 x YA6 MCCB	MHYA6X1*
800A	5	762.0	29	2 x YA6 MCCB	MHYA6X2*
1000A	6	914.4	32	1 x YA7 MCCB	MHYA7X1*
1250A	6	914.4	34	1 x YA8 MCCB	MHYA8X1*
600A	2	304.8	19	3 x SF Loadswitch	MHFS200X3
400A	5	762.0	25	1 x SL Loadswitch	MHFS400X1
800A	5	762.0	29	2 x SL Loadswitch	MHFS400X2
800A	6	914.4	37	1 x SN Loadswitch	MHFS800X1

*If the YA6, YA7 or YA8 frame size MCCB is used as an outgoing device it should **NOT** be mounted below the horizontal busbars.

Device Connections to Horizontal Busbars

- Solid copper connections to horizontal busbars

Current rating (A)	Description	Product Code
160A	YB1 MCCB connections (1 per MCCB)	MCYB1
250A	YB3 MCCB connections (1 per MCCB)	MCYB3
400A	YA5 MCCB connections (1 per MCCB)	MCYA5
630A	YA6 MCCB connections (1 per MCCB)	MCYA6
1000A*	YA7 MCCB connections (1 per MCCB)	MCYA7
1250A*	YA8 MCCB connections (1 per MCCB)	MCYA8
1250A*	YA8 4 pole MCCB connections (1 per MCCB)	MCYA84P
200A	SF Loadswitch connections (1 per Loadswitch)	MCFS200
400A	SL Loadswitch connections (1 per Loadswitch)	MCFS400
800A	SN Loadswitch connections (1 per Loadswitch)	MCFS800

*Cannot be fitted to 630A busbars.

Add on Enclosures

General Purpose Enclosures

- IP4X Ingress Protection
- Enclosures are 750mm wide and 200mm deep. Height as per table below.
- Supplied with two end plates and side plates.

Modular height	Height (mm)	Weight (kg)	GP Enclosure Product Code	Hinged front plate Product Code
1	152.4	4	LEBM1	N/A
2	305.8	10	LEBM2	MXPF2HS
3	457.2	16	LEBM3	MXPF3HS
4	609.6	22	LEBM4	MXPF4HS
5	762.0	28	LEBM5	MXPF5HS
6	914.4	34	LEBM6	MXPF6HS

Cableways

- IP4X Ingress Protection.
- Recommended for cables over 70mm².
- Enclosures are 250mm wide and 200mm deep. Height as per table below.
- Supplied with two end plates and no side plates.
- Can be used with Cableway Hinged Meter Plates for panel mounted metering options.

Cableway Hinged Meter Plates

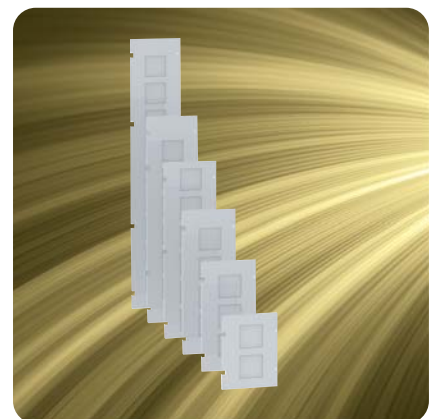
- For incoming and outgoing panel mounted metering.
- Hinged Meter Plates are designed to be used with standard cableway.
- Includes DIN-rail for mounting fuses and Current Transformers within cableway.
- Meters, Current Transformers and wiring looms are available as optional extras.

Modular height	Height (mm)	Weight (kg)	Cableway Product Code	Cableway Hinged Meter Plate (if reqd)
1	152.4	2	LECM1	N/A
2	305.8	4	LECM2	LECMD2
3	457.2	6	LECM3	LECMD3
4	609.6	8	LECM4	LECMD4
5	762.0	10	LECM5	LECMD5
6	914.4	12	LECM6	LECMD6
8	1219.2	14	LECM8	LECMD8
630A Busbar	244.8	2	MBBECW	

Metering Looms

- Pre-prepared cabling looms for panel mounted meters.
- Refer to Dorman Smith Loadbank publication for meter and CT selection guide.

Modis 12 Ultra LV Modular Distribution System



Modis 12 Ultra

LV Modular Distribution System



Panelboards

All devices and neutral links are supplied separately. See relevant publication for details.

Loadbank 250 Form 3a MCCB Panelboards

- Form 3a as standard.
- Width is 750mm and depth is 200mm. Height as per the table below.
- Outgoing device is single pole or 3 pole YA3/YB3 frame MCCBs.
- All busbar cross connector blanks are supplied as standard. See accessories for front blank.
- Supplied with one end plate and side plates.
- Ingress protection of IP3X. IP4X with door kit fitted (available as optional extra).

Rating (A)	Short circuit rating	Outgoing Triple Pole Ways	Modular height	Height (mm)	Weight (kg)	Panelboard Product Code	Door kit Product Code
400A	36kA for 1 second	6	4	609.6	36	LB406YA3	LBDD06
400A		12	6	762.0	52	LB412YA3	LBDD12
400A		18	8	1219.2	66	LB418YA3	LBDD18
800A	50kA for 1 second	6	4	609.6	42	LB806YA3	LBDD06
800A		12	6	762.0	62	LB812YA3	LBDD12
800A		18	8	1219.2	78	LB818YA3	LBDD18

Loadbank 250 Form 4b MCCB Panelboards

- Form 3b, Type 2 as standard.
- Form 4b, Type 6 with optional shielding fitted (see accessories).
- Outgoing device is 3 pole YA3/YB3 frame MCCB with neutral link (see accessories) or 4 pole YA3/YB3 frame MCCB (fitted left hand side only).
- Ingress protection of IP3X. IP4X with door kit fitted (available as optional extra).
- All busbar cross connector blanks and front plate blanks are supplied as standard.
- Supplied with two end plates and side plates.
- Panelboard does not accept 1 pole outgoing devices.
- Panelboard width is 750mm and depth is 200mm. Height is as per table below.

Rating (A)	Short circuit rating	Outgoing Triple Pole Ways	Modular height	Height (mm)	Weight (kg)	Panelboard Product Code	Door kit Product Code
800A	50kA for 1 second	6	5	762.0	59	LF806YA3	LFD06
800A		12	8	1219.2	98	LF810YA3	LFD10

Loadbank 200 Form 4a Loadswitch Panelboards

- Certified at 50kA for 1 second.
- Form 2b, Type 2 as standard.
- Form 4a Type 2 achieved with optional shrouding fitted (see accessories).
- Outgoing device is 3 pole or 4 pole 63-200A skeleton Loadswitch.
- IP4X as standard.
- All busbar cross connector covers are supplied as standard. See accessories for handle blank.
- Supplied with two end plates and side plates.
- Width is 750mm and depth is 200mm. Height as per table below.

Rating (A)	Short circuit rating	Outgoing Triple Pole Ways	Modular height	Height (mm)	Weight (kg)	Panelboard Product Code
800A	50kA for 1 second	6	5	762.0	59	LF806A
800A		12	8	1219.2	98	LF810A

Panelboards

Loadbank 250 Form 3a YA5 MCCB Panelboard (not for use with Form 4b Panelboards)

- When mounting to a standard Loadbank 250 Form 3a 800A panelboard the **LBCK8** connection kit is required. If mounting on top of the standard panelboard the **LBSKE** is also required.
- Cableway extension enclosures are necessary to assist with cabling
- Optional outgoing terminal shroud **YA5TS3P** if required (1 per MCCB)
- YA5 MCCB busbar terminal cover not required, however if internal degree of protection required is greater than IP2X then terminal cover **YA5TC3P** required (1 per MCCB)
- Width is 750mm and depth is 200mm. Height as per table below.

Rating (A)	Outgoing Triple Pole Ways	Modular height	Height (mm)	Weight (kg)	Panelboard Product Code	Door kit Product Code
800A	2 x YA5 MCCBs (400A max. each)	3	457.2	35	LB802YA5	LBDD02

Modis 12 Ultra LV Modular Distribution System



Panelboard Connections to Horizontal Busbars

- Solid copper connections to horizontal busbars.

Current rating (A)	Description	Product Code
400A	Loadbank 250 Form 3a MCCB Panelboard	MCLB400
800A	Loadbank 250 Form 3a MCCB Panelboard & Loadbank 250 Form 3a YA5 MCCB Panelboard	MCLB800
800A	Loadbank 250 Form 4b MCCB Panelboard & Loadbank 200 Form 4a Loadswitch Panelboard	MCLF800

Panelboard Accessories

Loadbank to Loadbank connection

- Solid copper connections/shrouds to connect panelboard busbars together vertically.

Description	Product Code
Connections to link 2 x 400A Loadbank 250 Form 3a MCCB Panelboards	LBCK4
Connections to link 2 x 800A Loadbank 250 Form 3a MCCB Panelboards	LBCK8
Top connection kit and shroud for Loadbank 250 Form 3a MCCB Panelboard	LBSKE*
Connections to link 2 x 800A Loadbank 200/250 Form 4b/4a MCCB/ Loadswitch Panelboards	LCFVK

*Must be fitted if connecting to the top of the Loadbank busbars. NOT required for connection to form 4 Loadbanks.

Shielding/blanks

Description	Product Code
3 pole front plate blank (for use with unused ways on Loadbank 250 Form 3a MCCB Panelboards)	LBPP3PYA3
YA3 Triple Pole MCCB shroud	YA3TS3P
YB3 Triple Pole MCCB shroud	YB3TS3P
YA3 4 Pole MCCB shroud	YA3TS4P
YB3 4 Pole MCCB Shroud	YB3TS4P
Neutral link for Loadbank 250 Form 4b MCCB Panelboard	YA3F4NL
Loadswitch shroud (70mm ² maximum)	LFS41A
Loadswitch shroud (150mm ² maximum)	LFS42A
Loadswitch handle blank	LFXHBA

Modis 12 Ultra LV Modular Distribution System



MCB Distribution Boards and Service Centres

- IP3X as standard and IP4X with doors fitted.
- MCB Distribution boards have fully shielded busbars and interconnections.
- Supplied with two end plates and side plates.
- Space saving twin TP&N Distribution board option.

Description	Modular height	Height (mm)	Weight (kg)	Product Code	Door kit (If required)
17 Way SP&N Board	1	152.4	15	LDS17	LD1DS
6 Way TP&N Board	2	305.8	23	LDT106X	LD1D06X
12 Way TP&N Board	3	457.2	30	LDT112X	LD1D12X
2 x 12 Way TP&N Boards	4	609.6	35	LDT212X*	LD2D12X
24 Way Service Centre	1	152.4	10	LDS24	LD1DS

*Not suitable for single module RCBOs.

Surge Protection

Surge Protection Device Mounting

There are two different options for providing surge protection and both are offered with Type I or Type II surge protection devices.

Option 1: 2 module high cableway complete with surge protection device.

Option 2: Frame for mounting the surge protection device in a cableway larger than 2 modules high.

Type I Class I Surge Suppression Device

- Three-phase & neutral, 25kA L-N, 100kA surge protector
- Maximum continuous operating voltage (Uc) is 275Vac rms
- Lightning impulse current 10/350ms, L-N (Iimp) is 25kA
- Lightning impulse current 10/350ms, N-PE (Iimp) is 100kA
- Total lightning impulse current 10/350ms, L1, L2, L3, N-PE (Itotal) is 100kA.

Device Series	Mounting Option	Method of Mounting	Product Code
DSPT	Option 1	2 module cableway complete with DSPT3PN Surge Suppression Device	LECM2SP
DSPT	Option 2	Frame for mounting inside a cableway complete with DSPT3PN Surge Suppression Device	LECM2SM

Type II Class II Surge Suppression Device

- Two stage (redundant) protection with pre-failure indication
- Maximum continuous operating voltage (Uc) L-N is 300Vac rms and L-L is 500Vac rms
- Maximum surge current (8/20ms) (Imax) is 30kA per phase.
- Leakage current to earth is 600mA

Device Series	Mounting Option	Method of Mounting	Product Code
DSPE	Option 1	2 module cableway complete with DSPE600R Surge Suppression Device	LECK2SP
DSPE	Option 2	Frame for mounting inside a cableway complete with DSPE600R Surge Suppression Device	LECK2SM



Accessories

Extension Collars

- Adds 100mm to the depth of a 200mm deep general purpose enclosure for deeper devices.

Description	Product Code
1 module high enclosure extension collar	MXEC1
2 module high enclosure extension collar	MXEC2
3 module high enclosure extension collar	MXEC3
4 module high enclosure extension collar	MXEC4
5 module high enclosure extension collar	MXEC5
6 module high enclosure extension collar	MXEC6

Side/End Plates and horizontal straps and partitions

- Spare blank side plate for enclosure or cableway.

Description	Product Code
1 module high enclosure side plate	MXPE1F
2 module high enclosure side plate	MXPE2F
3 module high enclosure side plate	MXPE3F
4 module high enclosure side plate	MXPE4F
5 module high enclosure side plate	MXPE5F
6 module high enclosure side plate	MXPE6F
8 module high enclosure side plate	MXPE8F
Steel end plate	LGES
Horizontal cross strap kit	MXHCS
Horizontal partition kit for between two enclosures	MXEPF

Horizontal Earth Bar

- Copper earth bar with mountings and fixings (box not supplied).

Description	Product Code
Earth bar 250mm long	MEB250
Earth bar 750mm long	MEB750

Castell Lock Equipment

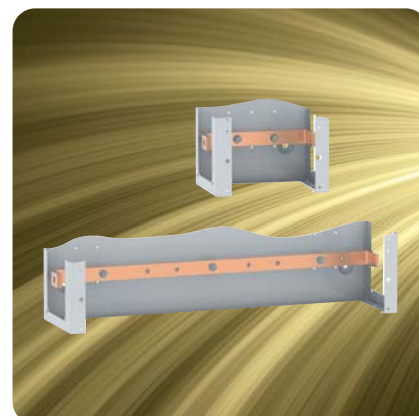
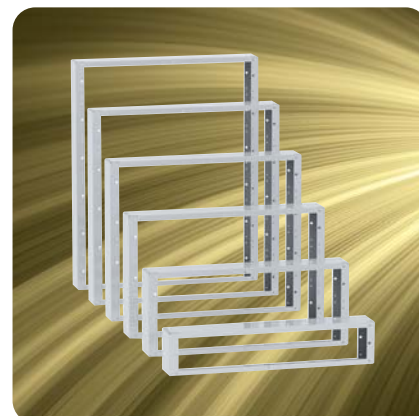
Description	Product Code
Castell lock kit for LB802YA5 (excluding lock)*	LB802CLK
YA6 Castell lock Mounting Plate (excluding lock)* - 1 required per Castell lock	MY6CLP
Front plate for MHYA6X1 suitable for 1 Castell lock	MHYA6X1C1
Front plate for MHYA6X2 suitable for 2 Castell locks	MHYA6X2C2
Front plate for MHYA6X2 suitable for 1 lock on LH switch	MHYA6X2C1L
Front plate for MHYA6X2 suitable for 1 lock on RH switch	MHYA6X2C1R
Castell lock for use with all Loadswitches (excluding lock)**.	SCLK
Lock can only be fitted LH side on Loadswitch panelboard. (Door requires drilling by customer).	

Notes:

* Castell Lock (K Series, Form 1 Type with 6.4mm bolt protrusion.)

** Castell Lock Type FS2

Modis 12 Ultra LV Modular Distribution System



Modis 12 Ultra

LV Modular Distribution System

Technical Data Sheet

Characteristic	Specification
Product Description:	L.V. Modular Distribution System
Standard:	EN 61439-2, Power switchgear and controlgear assemblies EN 60947-2, Circuit-breakers EN 60947-3, Switches, disconnectors, switch-disconnectors and fuse-combination units EN 60898, Circuit-breakers for overcurrent protection for household and similar installations. Circuit-breakers for a.c. and d.c. operation EN 61009, Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs)
External degree of protection:	IP3X minimum
Internal form of segregation:	Form 3a, 4a (Type 2) and Form 4b (Type 6), IP2X
Internal segregation materials:	Aluminium-zinc coated sheet steel and rigid polycarbonate barriers
External construction:	
1) Enclosure front cover plates, doors and side plates.	Painted 1.2mm thick zinc plated sheet steel.
2) Enclosure back boxes and end plates.	Painted 1.6mm thick zinc plated sheet steel.
Internal construction:	Painted 1.2mm (min) thick zinc plated sheet steel and 1.2mm thick aluminium-zinc coated sheet steel.
Paint:	TGIC free polyester powder coat, 60% gloss, ROHS compliant (low smoke/fume), depth 40/60 microns
Paint colour:	Colour matched to Cromadex ML618E (RAL 7035)
Busbar and interconnection material:	High conductivity copper
Horizontal busbar support material:	1250A: Flame retardant, glass filled polyester moulding compound 630A: Flame retardant, glass filled Nylon
Horizontal busbar current ratings and rated short-time withstand current:	1250A: Icw 50kA for 1 second 630A: Icw 25kA for 1 second. Rated conditional short-circuit current Icc 50kA at 415Vac
Rated voltage (Un):	415Vac
Rated operational Voltage (Ue):	415Vac
Rated insulation Voltage (Ui):	500Vac
Rated impulse withstand voltage (Uimp):	6kV
Test Recommendations:	All Modis 12 Ultra panels should be electrically and mechanically inspected and tested throughout the assembly process. Final testing and inspection should be in accordance with the routine verification requirements of BS EN 61439-1 and must include a dielectric test and 500V Megger test.

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