







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.

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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 MCCBs
Loadswitches

EN 61439-2 EN 60947-2 EN 60947-3

Surge protection devices.

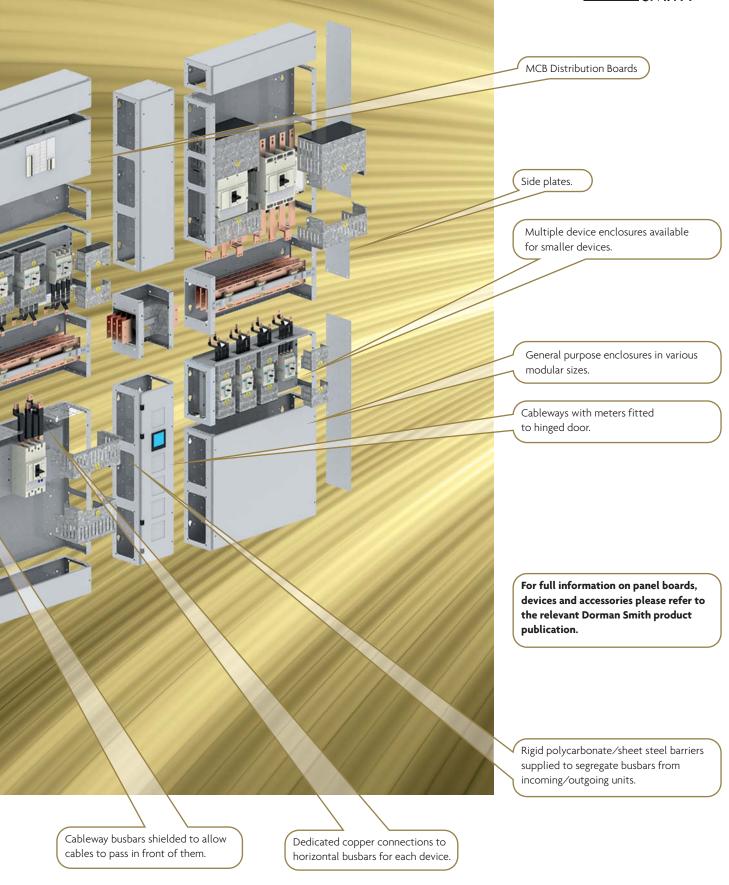
4-pole horizontal copper bubsars ASTA certified with a short circuit withstand rating of 25kA for 1 second for 630A and 50kA for 1 second for 1250A.

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.









Product Selection Chart

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Busbars 630A

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







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

MBB63CW

630A Cableway **Busbars** (MBB63L not required)

MBBECW

Empty Cableway Alongside 630A Bushars

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

MHYA5X1

Enclosure for 1 x YA5 MCCB

MCYA5

B/B connections YA5NL

Neutral link

MHYA6X1

Enclosure for 1 x YA6 MCCB

MCYA6 B/B connections

YA6NL Neutral link

ΜΗΥΔ7Χ1

Enclosure for 1 x YA7 MCCB

MCYA7

B/B connections YA7NL

Neutral link

MHYB3X3

Enclosure for 3 x YA3/YB3 MCCB

MCYB3

B/B connections

YB3NL

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.



MHYA6X2

Enclosure for 2 x YA6 MCCB

MCYA6

B/B connections

YA6NL

Neutral link

ΜΗΥΔ8Χ1

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

More detail on each unit can be found on the following pages.



LDT212X* LDT112X LDT106X LDS17 LDS24

2 x 12 Way TP&N 1 x 12 Way TP&N 1 x 6 Way TPN 17 Way SP&N

24 Way Service Centre

Door Kits

LD2D12X LD1D12X LD1D06X

LD1DS LD1DS

*Not suitable for SP RCBOs

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.

LECK2SP C/W DSP600

Surge Protection

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

For device selection please refer to the relevant Dorman Smith product publication

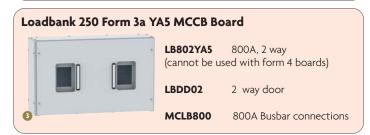


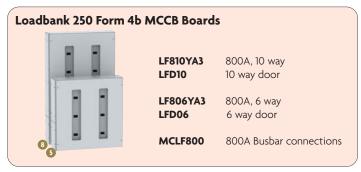
Product Selection Chart

Modis 12 Ultra

LV Modular Distribution System







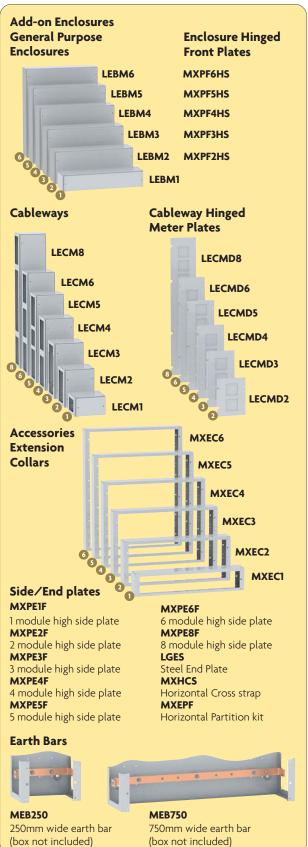


Panelboard Interconnections
LBCK4 400A LB250 to LB250
LBCK8 800A LB250 to LB250

 LBCK8
 800A LB250 to LB250

 LBSKE
 LB250 top connection kit

 LCFVK
 800A Form 4 LB250 to Form 4 LB250





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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	N/A	244.8	750	20	MBB63
630A	1 second	N/A	244.8	250	13	MBB63CW
630A	Copper busbar	sbars*	MBB63L			
1250A	50kA for	2	304.8	750	32	MBB12
1250A	1 second	2	304.8	250	19	MBB12CW
1250A	Copper busbar	links to join	2 x 750mr	m wide bu	sbars*	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
	Contract to the second of the	

^{*}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.

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

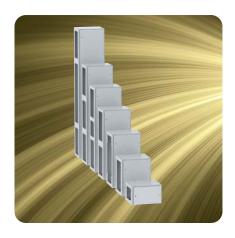
Cableways

- 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.









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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	6	4	609.6	36	LB406YA3	LBDD06
400A	1 second	12	6	762.0	52	LB412YA3	LBDD12
400A	1 second	18	8	1219.2	66	LB418YA3	LBDD18
800A	FOLA 6	6	4	609.6	42	LB806YA3	LBDD06
800A	50kA for 1 second	12	6	762.0	62	LB812YA3	LBDD12
800A	1 second	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		Height (mm)	Weight (kg)	Panelboard Product Code	Door kit Product Code
800A	50kA for	6	5	762.0	59	LF806YA3	LFD06
800A	1 second	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.
- $\, \bullet \,$ 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.

		Outgoing Triple Pole Ways	Modular height			Panelboard Product Code
800A	50kA for	6	5	762.0	59	LF806A
800A	1 second	12	8	1219.2	98	LF810A



Panelboards

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

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/	LCFVK
Loadswitch Panelboards	

^{*}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)	LBBP3PYA3
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 (70mm² maximum)	LFS41A
Loadswitch shroud (150mm² maximum)	LFS42A
Loadswitch handle blank	LFXHBA



LV Modular Distribution System





- 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 (limp) is 25kA
- Lightning impulse current 10/350ms, N-PE (limp) 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



- 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

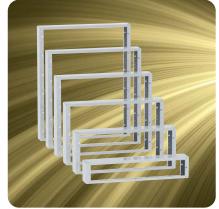
Description	Product Code
Castell lock kit for LB802YA5 (excluding lock)*	LB802CLK
YA6 Castell lock Mounting Plate (excluding lock)* - 1 required per Castell lock	MY6CLP
Front plate for MHYA6X1 suitable for 1 Castell lock	MHYA6X1C1
Front plate for MHYA6X2 suitable for 2 Castell locks	MHYA6X2C2
Front plate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

Notes

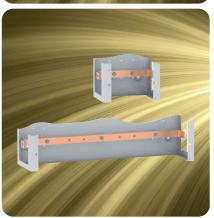
- \star Castell Lock (K Series, Form 1 Type with 6.4mm bolt protrusion.)
- ** Castell Lock Type FS2

Modis 12 Ultra

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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. 2) Enclosure back boxes and end plates.	Painted 1.2mm thick zinc plated sheet steel. 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 thoughout 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.	



LV Modular Distribution System

Notes	System



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