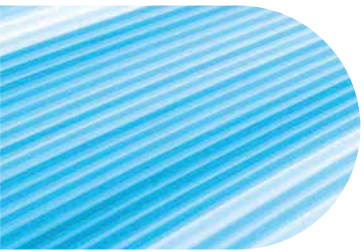
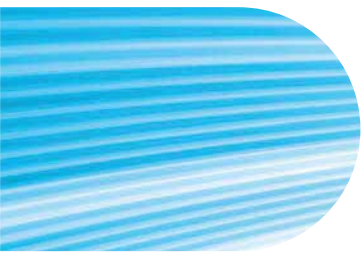


Loadbank 125 and 250 Panel Boards





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
Loadbank 125 Key Features	2-3
Loadbank 125 Panel Boards & Accessories	4-5
Loadbank 125 Outgoing Devices	6
Loadbank 125 Surge Suppression	7
Loadbank 250 Key Features	8-9
Loadbank 250 Panel Boards & Accessories	10-12
Loadbank 250 Outgoing Devices & Accessories	13-14
Loadbank 250 Add on Enclosures	15
Loadbank 250 Surge Suppression	16

Loadbank 125

MCCB Panel Boards

250A and 400A

Key Features

This panel board range features busbar ratings of 250A and 400A, outgoing devices up to 125A, multiple panel board size options, surge suppression mounted integral to the board and options to meter incoming and outgoing supply.

The busbars are ASTA certified with a short-circuit withstand rating of 25kA for 1 second for the 250A panel board and 25kA for 3 seconds for the 400A panel board.

Form 2 is standard on the 250A and 400A panel board ranges.

The Loadbank 125 offers an uncomplicated solution for power distribution for commercial and industrial applications with the availability of add-on enclosures such as metering enclosures and service centres which match the dimensional profile of the panel board.

Outgoing devices consist of a single frame size utilising the Loadline YM2 frame MCCB up to 125A which are a cost effective option for circuit protection.

Material Specification

The panel boards and enclosures are formed from 1.2 mm sheet steel.
The busbars are tin plated formed from hard drawn high conductivity copper, grade C101, ETP. Standard finish is epoxy powder coating in light grey RAL 7035, thickness 50-75 microns.

Compliance

Panel Boards	IEC 61439-2
MCCBs	EN 60947-2

Busbar

The Loadbank 125 panel boards have ASTA certified busbars with a short circuit rating of 25kA for 1 second for the 250A boards and 25kA for 3 seconds for the 400A boards.

PAGES 4-5

Outgoing Ways

The 250A panel boards are available in 6, 8 or 12 triple-pole outgoing ways and the 400A boards are available in 6, 8, 12 or 16 triple-pole outgoing ways offering great flexibility in design.

PAGE 6



Modular Construction

This range has a common width and depth for the panel board and all add-on enclosures thereby ensuring ease in panel building applications.

Add-on Enclosures

Panel building options for the Loadbank 125 range include; cable spreader box for additional cabling room, metering housing for incoming and outgoing DIN-rail meters, service centre and additional enclosure to house one Loadline YM3 or YS3 MCCB up to 250A as an outgoing device.

PAGES 4-5

Form

The 250A & 400A panel board meet the requirements of Form 2 construction as standard.

PAGES 4-5

Outgoing Devices

Both the 250A and the 400A panel boards are designed to accept Loadline YM2 frame MCCB. These devices are fixed MCCBs available in ratings 16A to 125A at 37kA. YM2 MCCB range is complimented by a wide range of accessories including; shunt trips, auxiliaries and UVRs.

PAGE 6

Surge Protection

A Type II Class II surge protection device can be internally installed in the Loadbank 125 panel boards. This device comes with a remote indicator panel which fits in a knockout in the front shield for easy surge protection monitoring. A Type I Class I device can also be used with this range via installation in a service centre.

PAGE 7

Incoming Options

The Loadbank 125 panel boards have a variety of incoming options including; MCCB and switch disconnecter.

PAGES 4-5

Metering

By using the add-on metering enclosures this panel board system can be easily metered for incoming and outgoing circuits. The add-on metering enclosure can also house the current transformers.

Loadbank 125

MCCB Panel Boards 250A



MCCB Panel Boards

250A Form 2 25kA for 1 second

Main features

- ASTA Certified busbars rated at 25kA for 1 second
- Form 2 as standard
- IP41 Ingress Protection rating
- Exceeds requirements of IEC 61439-2
- Suitable for operation at 50°C ambient
- Accepts YM2 frame MCCB up to 125A as outgoing devices
- Enclosure width is 700mm and depth 190mm. Height as per the table below

Outgoing Ways	Incoming Device Type	Outgoing Device Typw	Height (mm)	Weight (kg)	Product Code YM2
6	YS3 Frame	YM2 Frame	904	36	PB206YM2
8	YS3 Frame	YM2 Frame	994	39	PB208YM2
12	YS3 Frame	YM2 Frame	1174	47	PB212YM2

*CT version of the above panel boards can be ordered by adding the suffix "CT" to the above Product Codes.

*For Qatar, please order Panels with the suffix "CT3" to the above Product Codes.

Please add 180 mm to the height of the panel board for the CT3 version.

Panel Board Accessories

Device Type	Product Code
YS3 3-pole incoming terminal shroud	YS3TCL3P
YS3 3-pole dolly locking device	YSDL2
YM2 3-pole outgoing terminal shroud	YM12TCL3P
Cylinder door lock with keys	DBXCL
Door padlock device	DBXPL
Spare neutral / earth bar clamps for cables up to 70mm ²	PBYM2NA

Add-on units

Description	Height (mm)	Weight (kg)	Product Code
Cable spreader box	270	8.3	PBYA2CSB
Service centre for 24 x 1-pole ways	270	9	PBYA2SC24
YM3 MCCB outgoing housing up to 250A	450	15	PBYM2OG
YS3 MCCB outgoing housing up to 250A	450	15	PBYS2OG
Meter housinging	450	12	PBMB

Incoming Device Options

YS3 Frame MCCB

- Exceeds the requirements of EN 60947-2
- MCCBs have fixed or adjustable overload and instantaneous trips, except switch disconnector
- Ultimate breaking capacities of 50kA at 380/415V AC
- Overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- Ics = 100% Icu for all ratings
- Standard cable termination is 95mm² and maximum 150mm² using M8 extension links
- Cable clamps available for YS3 MCCBs for maximum cable termination of 120mm²

Device Type	Current Rating (A)	No of Poles	Product Code Switch disconnector	Product Code Adj. overload / Adj. instantaneous	Product Code Fixed	Product Code Adj. overload Fixed instantaneous
Switch Disconnector	160	3	YS3B3P160D			
Switch Disconnector	250	3	YS3B3P250D			
MCCB	160	3		YS3H3P160T	YS3H3P160TF	YS3H3P160TA
MCCB	200	3		YS3H3P200T	YS3H3P200TF	YS3H3P200TA
MCCB	250	3		YS3H3P250T	YS3H3P250TF	YS3H3P250TA

MCCB Panel Boards

400A Form 2 25kA for 3 seconds

Loadbank 125 MCCB Panel Boards 400A

Main features

- ASTA Certified busbars rated at 25kA for 3 seconds
- Form 2 as standard
- IP41 Ingress Protection rating
- Accepts YM2 MCCB up to 125A as outgoing devices
- Enclosure width is 700mm and depth 190mm. Heights as per the table below

Outgoing Ways	Incoming Device Type	Outgoing Device Type	Height (mm)	Weight (kg)	Product Code YM2
6	YS5 Frame	YM2 Frame	1084	45	PB406YM2
8	YS5 Frame	YM2 Frame	1174	48	PB408YM2
12	YS5 Frame	YM2 Frame	1354	56	PB412YM2
16	YS5 Frame	YM2 Frame	1534	65	PB416YM2

*CT version of the above panel boards can be ordered by adding the suffix "CT" to the above Product Codes.



Panel Board Accessories

Device Type	Product Code
YS5 3-pole incoming terminal shroud	YS5TCL3P
YM2 3-pole outgoing terminal shroud	YM12TCL3P
Cylinder door lock with keys	DBXCL
Door padlock device	DBXPL

Panel Board Add-on units

Description	Height (mm)	Weight (kg)	Product Code
Cable spreader box	270	8.3	PBYA2CSB
Service centre for 24 x 1-pole ways	270	9	PBYA2SC24
YM3 MCCB outgoing housing up to 250A	450	15	PBYM2OG
YS3 MCCB outgoing housing up to 250A	450	15	PBYS2OG
Meter Housing	450	12	PBMB



Incoming Device Options

YS5 Frame MCCB

- Exceeds the requirements of EN 60947-2
- MCCBs have adjustable overload and instantaneous trips, except switch disconnector
- Ultimate breaking capacities of 65kA at 380/415V AC
- Overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- Magnetic adjustments are between 5-10 x In
- Ics = 100% Icu for all ratings
- Standard cable termination is 120mm² and maximum 185mm² using M8 extension links

Device Type	Current Rating (A)	No of Poles	Product Code
Switch Disconnecter	400	3	YS5B3P400D
MCCB	300	3	YS5J3P300T
MCCB	400	3	YS5J3P400T



Loadbank 125 MCCB Panel Boards 250A and 400A



MCCB Panel Boards Outgoing Devices

YM2 Frame Devices

- Exceeds the requirements of EN 60947-2
- MCCBs have fixed thermal and fixed instantaneous trips
- Ultimate breaking capacities of 37kA at 415/460V AC
- Ics = 100% Icu for all ratings
- MCCBs have front connection terminals as standard
- Rated Operational Voltage is 690V AC (Ue)
- Rated Insulation Voltage is 750V AC (Ui)
- Fully rated for use at 50°C
- Terminal shrouds available as optional extras

Current Rating (A)	Icu (kA)	3-pole Product Code
15	37	YM2S3P15TF
20	37	YM2S3P20TF
30	37	YM2S3P30TF
40	37	YM2S3P40TF
50	37	YM2S3P50TF
60	37	YM2S3P60TF
80	37	YM2S3P80TF
100	37	YM2S3P100TF
125	37	YM2S3P125TF

YM2 Frame accessories

Description	3-Pole Product Code
Terminal Protection	
YM2 Terminal Cover (Short)	YM12TCS3P
YM2 Terminal Cover (Long)	YM12TCL3P
YM2 Interphase barrier (1 off)	YM12TB
Auxiliary and Alarm Switches *	
YM Auxiliary switch Micro 1C (General purpose - Left)	YMAUXI-L
YM Auxiliary switch Micro 1C (General purpose - Right)	YMAUXI-R
YM Alarm switch Micro 1C (General purpose - Left)	YMAL-L
YM Alarm switch Micro 1C (General purpose - Right)	YMAL-R
YM1-YM3 Auxiliary and Alarm switch (General Purpose - Left)	YM13AUXAL-L
YM1-YM3 Auxiliary and Alarm switch (General Purpose - Right)	YM13AUXAL-R
Shunt Trip *	
YM1-YM3 Shunt Trip 100-130V AC	YM13ST130AC
YM1-YM3 Shunt Trip 200-250V AC	YM13ST250AC
YM1-YM3 Shunt Trip 380-450V AC	YM13ST450AC
YM1-YM3 Shunt Trip 24V DC	YM13ST24DC
YM1-YM3 Shunt Trip 48V DC	YM13ST48DC
YM1-YM3 Shunt Trip 100-130V DC	YM13ST130DC
YM1-YM3 Shunt Trip 200-250V DC	YM13ST250DC
Under-Voltage Release *	
YM1-YM3 Under-voltage release 100-110V AC	YM13UVR110AC
YM1-YM3 Under-voltage release 200-220V AC	YM13UVR220AC
YM1-YM3 Under-voltage release 380-440V AC	YM13UVR440AC
YM1-YM3 Under-voltage release 24V DC	YM13UVR24DC
YM1-YM3 Under-voltage release 48V DC	YM13UVR48DC
YM1-YM3 Under-voltage release 100-110V DC	YM13UVR110DC
YM1-YM3 Under-voltage release 200-220V DC	YM13UVR220DC

* Common Accessories for YM1, YM2 & YM3 frame MCCBs

MCCB Panel Boards

Surge Protection

Loadbank 125 MCCB Panel Boards 250A and 400A

Class I Surge Protection

- Tested to withstand 10/350ms waveforms
- 3 Phase & neutral
- 25kA L-N
- 100kA surge protector

Device Description	Product Code	Mounting
Type I Class I 3 Phase & Neutral 25kA L-N, 100kA surge protector Tested to withstand 10/350ms waveforms Lightning impulse current (10/350ms) N-PE (Iimp) 100kA	DSPT3PN	YM2S3P15TF

Class II Surge Protection

- DIN-rail mounting for triple pole MCB
- Comes complete with 40kA Three Phase Class 2 surge protection device
- Knockout in the front shield for surge protection remote indication plate
- Mounting Plate height is 435mm

Device Description	Product Code	Mounting
Type II Class II 3 Phase & Neutral 40kA with remote indicator Low let through voltage of 600V Maximum surge current (8/20ms), I _{max} 40kA per phase	PBSM	Comes complete with back plate for integral mounting next to the main incoming device

Note: It is recommended that this Surge Protection device is installed on the load side of a MCB Type C, MCCB or a fused disconnecter at 63A to provide isolation and protection.



Loadbank 250

400A and 800A MCCB Panel Boards

Outgoing devices up to 250A

Key Features

The Loadbank 250 modular enclosure system is engineered to provide unrivalled flexibility and build simplicity needed in order to produce a wide range of power distribution solutions. It consists of TP&N busbars of 400A and 800A with three different sizes of 6, 12 or 18 outgoing ways.

This range houses the incoming and outgoing devices in separate adjoining enclosures which allows the widest range of circuit permutations, including oversized outgoing circuits, which can all be accommodated within a common format.

Incoming options range from 160A to 800A MCCB or Switch Disconnecter depending on the board. There is a single frame size MCCB for outgoing devices which is the YS3 frame MCCB up to 250A.

Material Specification

The panel boards and enclosures are formed from 1.2-1.6 mm sheet steel. The busbars are tin plated formed from hard drawn high conductivity copper, grade C101, ETP. Standard finish is epoxy powder coating in light grey RAL 7035, thickness 50-75 microns.

Compliance

Panel Boards	IEC 61439-2
MCCBs	EN 60947-2



Outgoing Ways

Both the 400A and 800A panel board versions are available in 6, 12 or 18 triple-pole outgoing way.

PAGE 13

Outgoing Options

The outgoing ways are supported by a single device frame size up to 250A which is the Loadline YS3 MCCBs. These are available in 30kA single-pole and 50kA triple-pole versions. A wide range of external and internal accessories is available for the Loadline YS3 MCCBs to meet your specific requirements.

PAGE 13



Metering

By using side cableways and metering door kits this range can easily have DIN96 panel mounted metering added for incoming and outgoing ways.

Form

The Loadbank 250 panel boards meet the requirements of Form 2 as standard.

PAGE 10-11

Ingress Protection

As standard the MCCB panel boards in this range have IP31 ingress protection and is achieved with the optional extra door kit fitted.

PAGE 10-11

Add-on Enclosures

The Loadbank 250 range is flexible and modular with standard width and depths for add-on enclosures. Our extensive add-on enclosure options for this range include; SP&N MCB distribution boards, TP&N MCB distribution boards, general purpose enclosures, side cableways, service centres, surge protection and incoming and outgoing metering.

PAGE 15

Surge Protection

Both Type I Class I and Type II Class II surge protection options are available for this range in either a specially designed 2 module high side cableway or as a mounting frame to be installed within a side cableway depending on application.

PAGE 16

Incoming Options

There is a variety of incoming options for this range including, MCCBs and switch disconnectors up to 800A. Each incoming device has a matching add-on incoming enclosure with all necessary copper connections included.

PAGE 10

Busbar

The Loadbank 250 panel boards have ASTA certified busbars with a short-circuit withstand rating of 36kA for 1 second for the 400A boards and 50kA for 1 second for the 800A boards.

PAGE 10-11

Loadbank 250

400A MCCB Panel Boards

Outgoing devices up to 250A



Fitted with incoming housing and metering



MCCB Panel Boards

250A/400A Form 2 36kA for 1 second

Main features

- ASTA certified busbars rated at 36kA for 1 second
- Form 2 as standard
- Width is 750mm and depth is 200mm. Height as per the table below.
- Exceeds requirements of IEC 61439-2
- Suitable for operation at 50° C ambient
- Supplied with top plate and two side plates as standard
- Ingress protection of IP31 as standard. IP41 achieved with door kit fitted (available as optional extra)

Outgoing Triple Pole Ways	Modular Height	Height (mm)	Weight (kg)	Panel Board Product Code	Door Kit Product Code
6	4	609	36	LB406YS3	LBDD06
12	6	914	52	LB412YS3	LBDD12
18	8	1219	66	LB418YS3	LBDD18

Add-on Incoming Device Enclosures

- Supplied with all necessary copper connections to connect incoming device to the busbar system
- Supplied with two side plates and the end plate from the panel board can be used as the bottom plate
- Incoming device to be ordered separately

Product Code	Current Rating (A)	Modular Height	Height (mm)	Weight (kg)	Incoming Device Type
LB1YS3	250	3	457	26	YS3 frame MCCB
LB1YS5	400	4	610	45	YS5 frame MCCB

Incoming Device Options

YS3 Frame MCCB

- Exceeds the requirements of EN 60947-2
- MCCBs have adjustable overload and instantaneous trips, except switch disconnector
- Ultimate breaking capacities of 50kA at 380/415V AC
- Overload adjusts to 1 x In, 0.9 x In and 0.8 x In
- Ics = 100% Icu for all ratings
- Enclosure door kit LBDDYS3 available for the LB1YS3 as an optional extra

Device Type	Current Rating (A)	No of Poles	Product Code	Enclosure required
Switch Disconnecter	250	3	YS3B3P250D	LB1YS3
MCCB	160	3	YS3H3P160T	LB1YS3
MCCB	200	3	YS3H3P200T	LB1YS3
MCCB	250	3	YS3H3P250T	LB1YS3

YS5 Frame MCCB

- Exceeds the requirements of EN 60947-2
- MCCBs have adjustable thermal and adjustable instantaneous trips, except switch disconnector
- Ultimate breaking capacities of 65kA at 380/415V AC
- Ics = 100% Icu for all ratings
- Thermal adjustments are 0.8 x In, 0.9 x In and 1 x In
- Magnetic adjustments are between 5-10 x In
- Enclosure door kit LBDDYS5 available for the LB1YS5 as an optional extra

Device Type	Current Rating (A)	No of Poles	Product Code	Enclosure required
Switch Disconnecter	400	3	YS5B3P400D	LB1YS5
MCCB	400	3	YS5J3P400T	LB1YS5

Panel Board Accessories

Description	Product Code
Spare End Plate	LGES
Cylinder Door Lock	DBXCL
Padlocking Door Kit	DBXPL
Panel board stacking kit	LBCK4YS
Busbar extension terminals	LBSKE

MCCB Panel Boards

800A Form 2 50kA for 1 second

Main features

- ASTA certified busbars rated at 50kA for 1 second
- Form 2 as standard
- Width is 750mm and depth is 200mm. Height as per the table below.
- Exceeds requirements of IEC 61439-2
- Suitable for operation at 50° C ambient
- Supplied with top plate and two side plates as standard
- Ingress protection of IP31 and IP41 achieved with door kit fitted (available as optional extra)

Outgoing Triple Pole Ways	Modular Height	Height (mm)	Weight (kg)	Panel Board Product Code	Door Kit Product Code
6	4	609	42	LB806YS3	LBDD06
12	6	914	62	LB812YS3	LBDD12
18	8	1219	78	LB818YS3	LBDD18

Add-on Incoming Device Enclosures

- Supplied with all necessary copper connections
- Neutral links supplied as standard
- Incoming device to be ordered separately

Product Code	Current Rating (A)	Modular Height	Height (mm)	Weight (kg)	Incoming Device Type
LB1YS5	400	4	610	45	YS5 frame MCCB
LB1YS6	630	5	762	69	YS6 frame MCCB
LB1YS8	800	6	912	69	YS8 frame MCCB

Incoming Device Options

YS5 Frame MCCB

- Exceeds the requirements of EN 60947-2
- MCCBs have adjustable thermal and adjustable instantaneous trips, except switch disconnectors
- Ultimate breaking capacities of 65kA at 380/415V AC
- Ics = 100% Icu for all ratings
- Thermal adjustments are 0.8 x In, 0.9 x In and 1 x In
- Magnetic adjustments are between 5-10 x In
- Enclosure door kit LBDDYS5 available for the LB1YS5 as an optional extra

Device Type	Current Rating (A)	No of Poles	Product Code	Enclosure required
Switch Disconnector	400	3	YS5B3P400D	LB1YS5
Switch Disconnector	630	3	YS5B3P630D	LB1YS5
MCCB	400	3	YS5J3P400T	LB1YS5
MCCB	630	3	YS5J3P630T	LB1YS5

YS6 Frame MCCB

- Exceeds the requirements of EN 60947-2
- MCCBs have adjustable thermal and adjustable instantaneous trips, except switch disconnectors
- Ultimate breaking capacities of 65kA at 380/415V AC
- Ics = 100% Icu for all ratings
- Thermal adjustments are 0.8 x In, 0.9 x In and 1 x In
- Magnetic adjustments are between 5-10 x In
- Enclosure door kit LBDDYS6 available for the LB1YS6 as an optional extra

Device Type	Current Rating (A)	No of Poles	Product Code	Enclosure required
Switch Disconnector	800	3	YS6B3P800D	LB1YS6
MCCB	800	3	YS6J3P800T	LB1YS6

YS8 Frame MCCB

- Exceeds the requirements of EN 60947-2
- Electronic MCCBs have adjustable overload, short time delay and instantaneous trips
- Ultimate breaking capacities of 50kA at 380/415V AC
- Ics = 100% Icu for all ratings
- Variety of Trip Relays available for adjustment, display and monitoring
- Enclosure door kit LBDDYS8 available for the LB1YS8 as an optional extra

Trip Relay Type	Current Rating (A)	No of Poles	Product Code	Enclosure required
Standard	800	3	YS8H3P800ES	LB1YS8
Current Display	800	3	YS8H3P800EC	LB1YS8
Power Display	800	3	YS8H3P800ED	LB1YS8
Enhanced Power Display	800	3	YS8H3P800EE	LB1YS8

Loadbank 250 800A MCCB Panel Boards Outgoing devices up to 250A



Fitted with incoming housing and metering



Loadbank 250 MCCB Panel Board Accessories



MCCB Panel Boards Accessories

Add-on enclosure for 400A MCCB outgoing devices

- Enclosure for up to 2 x Loadline YS5 frame MCCBs up to 400A as outgoing devices
- Can be directly connected to the incoming enclosure without additional connection kits
- When connecting to the 800A Panel board then LBSKE and LBCK8 connection kits required
- Loadline YS5 MCCB devices to be ordered separately
- Side cableways are recommended when using this enclosure for ease of cabling
- Terminal shield YS5TC3P required for each outgoing MCCB

Modular Height	Height (mm)	Weight (kg)	Panel Board Product Code	Door Kit Product Code
3	456	35	LB802YS5	LBDD02

Outgoing devices for LB802YS5

YS5 Frame MCCB

- Exceeds the requirements of EN 60947-2
- MCCBs have adjustable thermal and adjustable instantaneous trips
- Ultimate breaking capacities of 65kA at 380/415V AC
- Ics = 100% Icu for all ratings
- Thermal adjustments are 0.8 x In, 0.9 x In and 1 x In
- Magnetic adjustments are between 5-10 x In
- Standard cable termination is 95mm² or 185mm² using extension links

Device Type	Current Rating (A)	No of Poles	Product Code	For use with enclosure
MCCB	400	3	YS5J3P400T	LB802YS5

Panel Board Accessories

Description	Product Code
Spare End Plate	LGES
Cylinder Door Lock	DBXCL
Padlocking Door Kit	DBXPL
Panel board stacking kit	LBCK8YS
Busbar extension terminals	LBSKE

MCCB Panel Boards Outgoing Devices

Loadbank 250 400A and 800A Panel Boards Outgoing devices upto 250A

Main Features

- Exceeds the requirements of EN 60947-2
- Single-pole MCCBs have fixed thermal and fixed instantaneous trips
- 3-pole MCCBs have either fixed or adjustable thermal trips (both types have fixed instantaneous trips)
- Ultimate breaking capacities of 30kA for 1-pole MCCBs and 50kA for 3-pole MCCBs at 380/415V AC
- Ics = 100% Icu for all ratings
- MCCBs have front connection terminals as standard
- Rated Operational Voltage is 690V AC (Ue)
- Rated Insulation Voltage is 750V AC (Ui)
- Fully rated for use at 50°C
- Standard cable termination is 95mm²
- Maximum cable termination is 150mm² using M8 extension links



Current Rating (A)		YS3 MCCB	YS3 MCCB	
Max (A)	Min (A)	1-pole (Fixed)	3-pole (Fixed Thermal)	3-pole (Adjustable Thermal)
Switch Disconnectors				
250	-	-	YS3B3P250D	
YS3 Frame MCCB				
16	16	YS3N1P16TF	-	-
20	16	YS3N1P20TF	-	-
32	26	YS3N1P32TF	-	-
40	32	YS3N1P40TF	YS3H3P40TF	YS3H3P40TA
50	40	YS3N1P50TF	YS3H3P50TF	YS3H3P50TA
63	50	YS3N1P63TF	YS3H3P63TF	YS3H3P63TA
80	64	YS3N1P80TF	YS3H3P80TF	YS3H3P80TA
100	80	YS3N1P100TF	YS3H3P100TF	YS3H3P100TA
125	100	YS3N1P125TF	YS3H3P125TF	YS3H3P125TA
160	128	YS3N1P160TF	YS3H3P160TF	YS3H3P160TA
200	160	-	YS3H3P200TF	YS3H3P200TA
250	200	-	YS3H3P250TF	YS3H3P250TA

MCCB Panel Boards Accessories for YS3, YS5, YS6 and YS8 devices

Description	3 Pole Product Code
Cable Clamps	
YS3 Cable Clamps (3 x 3-pole)	YS3CC3P
YS5 Cable Clamps (3 x 3-pole)	YS5CC3P
Terminal Protection	
YS3 Terminal Cover (For rear connection)	YS3TCS3P
YS3 Terminal Cover (For front connection)	YS3TCL3P
YS5 Terminal Cover (For rear connection)	YS5TCS3P
YS5 Terminal Cover (For front connection)	YS5TCL3P
YS6 Terminal Cover (For rear connection)	YS6TCS3P
YS6 Terminal Cover (For front connection)	YS6TCL3P
YS3 Interphase barrier (4 off)	YS23TB
YS5 Interphase barrier (4 off)	YS5TB
YS6 Interphase barrier (4 off)	YS6TB
YS8 Interphase barrier (3 off)	YS8TB3
Auxiliary and Alarm Switches *	
YS Auxiliary Switch Micro 1C Terminal (General Purpose)	YSAUX1
YS Alarm Switch Micro 1C Terminal (General Purpose)	YSAL
YS Fault Alarm Switch (General Purpose)	YSFAL
YS8 Auxiliary switch (General Purpose)	YS8AUX
YS8 Alarm switch (General Purpose)	YS8AL
YS8 Fault Alarm switch (General Purpose) YS8FAL	YS8FAL
Shunt Trip *	
YS2-YS6 Shunt Trip 110-130V AC	YS26ST130AC
YS2-YS6 Shunt Trip 200-240V AC	YS26ST240AC
YS2-YS6 Shunt Trip 380-500V AC	YS26ST500AC
YS2-YS6 Shunt Trip 24V DC	YS26ST24DC
YS2-YS6 Shunt Trip 48V DC	YS26ST48DC
YS2-YS6 Shunt Trip 110-130V DC	YS26ST130DC
YS2-YS6 Shunt Trip 200-250V DC	YS26ST250DC
Under-Voltage Release *	
YS2-YS6 Under-voltage release 110-130V AC	YS26UVR130AC
YS2-YS6 Under-voltage release 200-240V AC	YS26UVR240AC
YS2-YS6 Under-voltage release 380-440V AC	YS26UVR240AC
YS2-YS6 Under-voltage release 110-130V DC	YS26UVR130DC
YS2-YS6 Under-voltage release 200-250V DC	YS26UVR250DC
YS2-YS6 Under-voltage release 380-440V DC	YS26UVR440DC
Under-Voltage Release - Timed Delayed *	
YS2-YS6 Under-voltage release 200-250V AC	YS26UVR250AC-TD
YS2-YS6 Under-voltage release 380-480V AC	YS26UVR480AC-TD
YS2-YS6 Under-voltage release 48-60V DC	YS26UVR60DC-TD
YS2-YS6 Under-voltage release 100-130V DC	YS26UVR130DC-TD
YS2-YS6 Under-voltage release 200-250V DC	YS26UVR250DC-TD

*Common accessories for YS2, YS3, YS5 and YS6 frames.

MCCB Panel Boards

Add on enclosures

Loadbank 250
400A and 800A Panel Boards
Outgoing devices up to 250A

General Purpose Enclosures

- IP41 Ingress Protection
- Enclosures are 750mm wide and 200mm deep. Height as per table below.
- Supplied with two side and two end plates as standard
- Replacement top / bottom plate is product code LGES
- Replacement side plate is product code MXPE*F where the * represents the modular height
- Can be mounted above or below main panel board as required

Modular Height	Height (mm)	Weight (kg)	Product Code
1	152	4	LEBM1
2	305	10	LEBM2
3	457	16	LEBM3
4	609	22	LEBM4
5	762	28	LEBM5
6	914	34	LEBM6

Side Cableway Extension Enclosures

- IP41 Ingress Protection
- Recommended for cables over 70mm²
- Enclosures are 250mm wide and 200mm deep. Height as per table below.
- No side plates supplied as designed to use the side plate from the panel board
- Can be used with Cableway Metering Door Kits for panel mounted metering options

Cableway Metering Door Kits

- For incoming and outgoing panel mounted metering
- Metering door kit designed to be used with standard cableway
- Includes DIN-rail for mounting fuses and Current Transformers within cableway
- Meters, Current Transformers and wiring looms not supplied

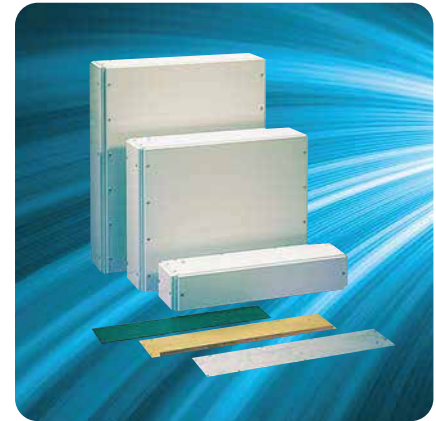
Modular Height	Height (mm)	Weight (kg)	Cableway Product Code	Cableway Metering Door Kit (if required)
1	152	2	LECM1	N/A
2	305	4	LECM2	LECMD2
3	457	6	LECM3	LECMD3
4	609	8	LECM4	LECMD4
5	762	10	LECM5	LECMD5
6	914	12	LECM6	LECMD6
7	1219	14	LECM8	LECMD8

MCB Distribution Boards and Service Centres

- IP31 as standard and IP41 with doors fitted
- MCB Distribution boards have fully shielded busbars and interconnections
- Space saving twin option TP&N Distribution board option

Description	Modular Height	Height (mm)	Weight (kg)	Product Code	Door Kit Product Code
17 Way SP&N Distribution Board	1	152	15	LDS17	LD1DS
6 Way TP&N Distribution Board	2	305	23	LDT106X	LD1D06X
12 Way TP&N Distribution Board	3	457	30	LDT112X	LD1D12X
2 x 12 Way TP&N Distribution Board	4	609	35	LDT212X*	LD2D12X
24 Way Modular Service Centre	1	152	10	LDS24	LD1DS

* Only double module RCBOs can be fitted in this enclosure



Loadbank 250

400A and 800A Panel Boards

Outgoing devices up to 250A



MCCB Panel Boards

Surge Protection

Surge Suppression Device Mounting

There are two different ways of providing surge protection for the Loadbank 200 Panel Board range and both options are offered with Type I and 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 275V AC 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 300V rms and L-L is 500V 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
DSPT	Option 1	2 Module cableway complete with DSPE600R Surge Suppression Device	LECK2SP
DSPT	Option 2	Frame for mounting inside a cableway complete with DSPE600R Surge Suppression Device	LECK2SM

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