



Loadlimiter 63 Range
TP&N Distribution Systems (B-type)

Dorman Smith Switchgear Ltd

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

The Dorman Smith product range starts with simple SP&N distribution boards and continues up to custom designed, factory built low-voltage electrical switchboards for a broad range of commercial, industrial or retrofit applications.

Dorman Smith continues to build on the extensive technical know-how and close awareness of local demands, operating conditions and regulations. This breadth of experience supports the development and manufacturing of electrical systems which meet or exceed industry requirements.



TP&N Distribution Systems

Loadlimiter 63 Range of TP&N Distribution Systems (B-type)



Overview

Key Features

- Conforms to EN 61439-3
- ASTA certified busbars rated at 10kA for 250ms
- Neutral and earth terminal 25mm² for each single-pole way
- Clean earth facility
- Enclosures are 484mm wide x 159 deep
- 4 to 24 TP&N outgoing ways
- IP4X Ingress Protection
- Double earth kits available
- Extended service centres with fitted earth and neutral terminals

Available Options

- Incomer can be switch disconnector, contactor, fuse switch, MCCB or RCCB
- Outgoing ways can be configured with 10/15kA-rated MCBs or RCBOs
- Matching service centres equipped with one or two rows of 18-pole ways
- Surge protection modules can be accommodated within standard configuration
- Modular DIN-rail meter fits within standard configuration

Benefits

- Extra spreading room for single module RCBOs
- Multi incoming options
- Earth/neutral close to phase terminal
- MCBs with symmetrical dual terminals
- Integral metering options
- Exceptional flexibility

Applications

- Commercial and industrial final circuit protection
- Part L2 building regulations
- 17th edition wiring regulations

Compliance

Distribution boards	EN61439-3
MCBs	EN60898
Contactors	EN61095
RCBOs	EN61009
RCCBs	EN61008

The Dorman Smith Loadlimiter 63 TP&N distribution board system excels in providing flexible and cost effective final circuit management solutions for commercial and industrial applications.

Featuring a comprehensive range of TP&N distribution boards rated at 250A and a wide array of circuit devices the system ensures simple configuration as well as quick assembly for new and retrofit applications.

To suit current industry regulation requirements the range has been extended to offer a vast collection of metering accessories including fully assembled metered power and lighting distribution boards. This range consists of both stocked and customised options providing an easy and flexible solution to comply with Part L2 Building Regulations and specification requirements.

The standard finish is epoxy powder coating in light grey RAL 7035.



TP&N Distribution System

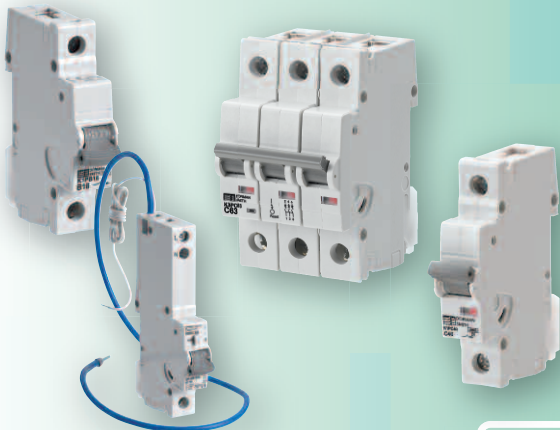


B-type Distribution Boards

- Service centres
- Stacking kits
- Assembled metered boards
- Metering enclosures

Incoming Devices

- Switch disconnectors - modular 125A max
- Switch disconnectors - MCCB 250A max
- Residual current circuit breakers - RCCB
- Fuse switch
- Moulded case circuit breakers
- Contactors



Circuit Protection Devices

- Miniature circuit breakers
- Residual current circuit breaker with overcurrent protection - RCBO
- Residual current circuit breaker - RCCB

Modular Devices

- Surge protection
- Meters, current transformers and wiring looms
- Contactors
- Timer
- Residual current circuit breaker



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B-type Distribution Boards and Enclosures



B-type Distribution Boards

- Exceeds the requirements of EN 61439-3
- ASTA certified busbars rated at 10kA for 250mS
- Neutral and earth terminal 25mm² for each single-pole way
- Integral clean earth facility
- Enclosure are 484mm wide x 159mm deep
- 4-24 TP&N outgoing ways
- IP4X Ingress Protection

Outgoing 3-pole ways	Height (mm)	Weight (kg)	Cat. no.
4	544	10	DBX04R
6	598	11	DBX06R
8	651	12	DBX08R
12	758	15	DBX12R
16	865	18	DBX16R
20	1025	22	DBX20R
24	1132	27	DBX24R

Double earth bar kits are available Order as DBTE**X, where ** = 04 to 24.



250A Incoming Housing

- Enclosure to mount any YA3 Frame MCCB up to 250A
- Facility to mount two panel mounted meters (using available knockouts)

Incomer	Height (mm)	Weight (kg)	Cat. no.
3-pole unit	321	8	DBXYA3
4-pole unit	321	8	DBXYA3

Note: Devices to be ordered separately. Triple-pole device requires neutral link YA3NL to be ordered separately if required.

Description	Cat. no.
YA3 neutral link	YA3NL

Service Centres for all B-type Distribution Boards

- Accepts all DIN-rail mounting devices
- 18 or 36 modular ways
- IP4X Ingress Protection
- General purpose enclosure includes facility to mount two panel mounted meters and DIN-rail for current transformers
- Neutral and earth bars fitted as standard



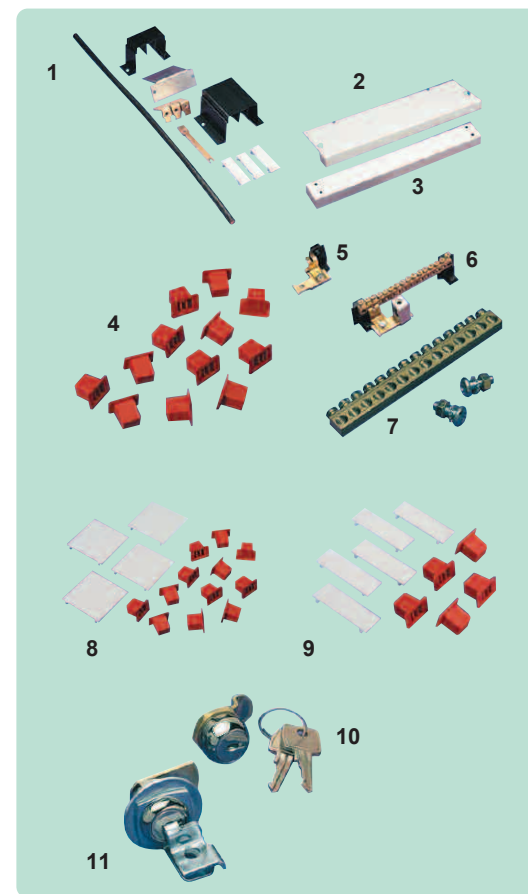
Modular Ways	Height (mm)	Weight (kg)	Cat. no.
18 x 1-pole ways (single row)	213	5	DBS18X
36 x 1-pole ways (double row)	427	8	DBS36X
General purpose enclosure	213	3	DBMSB

Supplied without top or bottom plate. Intended for use with removable plate from distribution board.

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B-type Distribution Boards Accessories

Description	Picture	Cat. no.
Conversion kits plus spares		
TP&N to SP&N conversion kit	1	DBXTS
Spare end plate	2	DBXEP
Fixing kit for up to 24 ways distribution boards		DBX24FK
Blank way label for up to 24 ways distribution boards		DBX24WL
DA18X to B type board stacking kit		DBXSKA
Blanking pieces		
MCB blanks (4xTP MCB ways + 12 busbar terminal blanks)	8	DBXBP
MCB blanks (5x1P MCB ways + 5 busbar terminal blanks)	9	DBXBM
MCB blanks (5x½ MCB Ways)		DBXBH
Joining kit		
Kit for vertically joining two distribution boards	3	DBXJK
Terminal bars		
Terminal bar for 6 ways (6 useable 1P ways)	6	DBXT06
Terminal bar for 12 ways (12 useable 1P ways)	6	DBXT12
Terminal bar for 18 ways (18 useable 1P ways)	6	DBXT18
Terminal bar for 24 ways (24 useable 1P ways)	6	DBXT24
Blanking kits		
Busbar terminal blanks (set of 10)	4	DAXTP
Earth bar kits		
Earth bar	7	DAXEB
Earth bar isolation kit	5	DBXL
Double earth bar facility		
Earth bar kit with terminal for each outgoing way (where ** = 04, 06, 08, 12, 16, 20 or 24 ways)		DBTE**X
Door lock kits		
Cylinder door lock	10	DBXCL
Padlock bracket kit	11	DBXPL



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B-type Incoming Options



Switch Disconnecter 125A Max

- Exceeds the requirements of EN 60947-3
- 50mm² cable capacity
- Duty category of AC22

Switch disconnecter

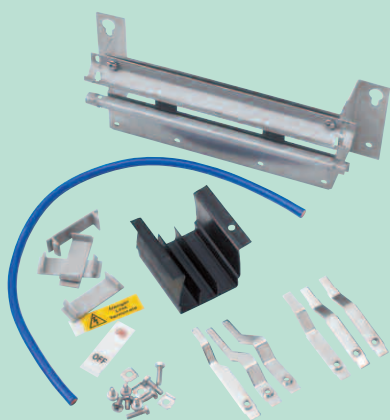
Device type	Max. cable (mm ²)	Sensitivity (mA)	Incoming device cat. no.	Connection kit cat. no.
100A, 3-pole	50	-	AV3100	N/A
100A, 4-pole	50	-	AV4100	DBXCKR
125A, 3-pole	50	-	AV3125	N/A
125A, 4-pole	50	-	AV4125	DBXCKR



RCCBs

- Exceeds the requirements of EN 61008
- Double width module, 35mm
- Type AC
- Terminal capacity: 40A-63A: 25mm²
- Terminal capacity: 100A: 35mm²

4-pole RCCB	Max. cable (mm ²)	Sensitivity	Cat. no.	Connection kit cat. no.
40A, type AC	35	30	EE40/30/4	DBXCKR
40A, type AC	35	30	EE40/100/4	DBXCKR
63A, type AC	35	30	EE63/30/4	DBXCKR
63A, type AC	35	100	EE63/100/4	DBXCKR
63A, type AC	35	300	EE63/300/4	DBXCKR
100A, type AC	35	30	EE100/30/4	DBXCKR
100A, type AC	35	100	EE100/100/4	DBXCKR
100A, type AC	35	300	EE100/300/4	DBXCKR
100A, type AC, time delay	35	100	EES100/100/4	DBXCKR



Contactors – DIN-rail Mounted

- Exceeds the requirements of EN 61095
- May require de-rating when used with inductive loads – see Contactor De-rating table in the Technical Applications section

Contactors			Cat. no.	Connection kit cat. no.
40A, 4-pole	-	-	EE4P40CO	DBXCKR
63A, 4-pole	-	-	EE4P63CO	DBXCKR

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B-type Incoming Options and Surge Protection

YA3 frame MCCB - 250A Max

- Standard cable termination 95mm²
- Cable clamps termination - 120mm²
- Maximum cable termination is 150mm² using reduced palm width M8 cable lugs
- MCCBs have thermal and magnetic overloads except switch disconnector
- To be mounted in incoming housing (DBXYA3)

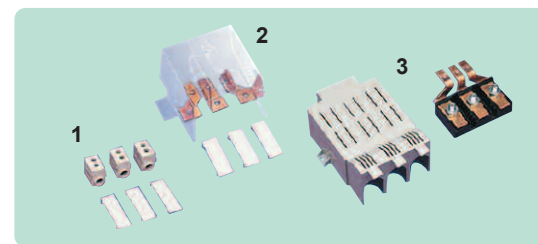
Device type	Max. cable (mm ²)	I _{CU}	Incoming device cat. no.
63A, 3-pole	150*	25kA	YA3N3P63T
63A, 4-pole	150*	25kA	YA3N4P63T
100A, 3-pole	150*	25kA	YA3N3P100T
100A, 4-pole	150*	25kA	YA3N4P100T
125A, 3-pole	150*	25kA	YA3N3P125T
125A, 4-pole	150*	25kA	YA3N4P125T
160A, 3-pole	150*	25kA	YA3N3P160T
160A, 4-pole	150*	25kA	YA3N4P160T
200A, 3-pole	150*	25kA	YA3N3P200T
200A, 4-pole	150*	25kA	YA3N4P200T
250A, 3-pole	150*	25kA	YA3N3P250T
250A, 4-pole	150*	25kA	YA3N4P250T
250A, 3-pole switch disconnector	150*	-	YA3B3P250D
250A, 4-pole switch disconnector	150*	-	YA3B4P250D

* 150mm² based on using reduced palm width cable lugs



Direct Connection Terminal Kits

Description	Max. cable (mm ²)	Picture	Cat. no.
Terminals	35	1	DBXD0
Terminals	70	2	DBXD1
Terminals	150	3	DBXD2



Surge Protection

- Plug-in surge protection modules
- Integral protection status indicator
- Thermal and current overload fusing
- Three-phase operating range, 380-515V rms max
- 'Hot working' replaceable modules

Description	Width (mm)	Cat. no.
3-phase with neutral/earth surge protection module	54	DSPM3PN
MOV replacement plug-in SPM	17.5	DSPML
MOV neutral/earth replacement plug-in SPM	17.5	DSPMNE



Note: Connection kit DBXCKR must be ordered to provide the additional DIN-rail needed to mount this device in the distribution enclosure below the incoming device (for 125A max only). For 250A applications devices should be mounted in a service centre.

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DB-type Outgoing Devices



Single-pole MCBs

- Exceeds the requirements of EN 60898
- 10kA rated breaking capacity to EN 60898
- 15kA rated breaking capacity to EN 60947-2
- Contact position indicator
- 35mm² cable capacity

Current rating (A)	B type cat. no.	C type cat. no.	D type cat no.
6	K1PB06	K1PC06	K1PD06
10	K1PB10	K1PC10	K1PD10
13	-	-	-
16	K1PB16	K1PC16	K1PD16
20	K1PB20	K1PC20	K1PD20
25	K1PB25	K1PC25	K1PD25
32	K1PB32	K1PC32	K1PD32
40	K1PB40	K1PC40	T1PD40*
50	K1PB50	K1PC50	T1PD50*
63	K1PB63	K1PC63	T1PD63*



Triple-pole MCBs

Current rating (A)	B type cat. no.	C type cat. no.	D type cat no.
6	K3PB06	K3PC06	K3PD06
10	K3PB10	K3PC10	K3PD10
13	-	-	-
16	K3PB16	K3PC16	K3PD16
20	K3PB20	K3PC20	K3PD20
25	K3PB25	K3PC25	K3PD25
32	K3PB32	K3PC32	K3PD32
40	K3PB40	K3PC40	T3PD40*
50	K3PB50	K3PC50	T3PD50*
63	K3PB63	K3PC63	T3PD63*

* 6kA/10kA - EN 60898 / EN 60947-2

Note: Please be advised that the T series looks physically different to the K series.

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B-type Outgoing Devices and Accessories

Single Module RCBOs

- Exceeds the requirements of EN 61009
- Single module: Type AC
- 10kA rated breaking capacity
- Terminal capacity: outgoing terminals 10mm²
- Terminal capacity: busbar side terminals 35mm²

Current rating (A)	Sensitivity (mA)	B type cat. no.	C type cat. no.
6	30	KR1PB0630	KR1PC0630
10	30	KR1PB1030	KR1PC1030
16	30	KR1PB1630	KR1PC1630
20	30	KR1PB2030	KR1PC2030
32	30	KR1PB3230	KR1PC3230
40	30	KR1PB4030	KR1PC4030
45	30	KR1PB4530	KR1PC4530
6	100	-	KR1PC06100
10	100	-	KR1PC10100
16	100	-	KR1PC16100
20	100	-	KR1PC20100
32	100	-	KR1PC32100
40	100	-	KR1PC40100



Double Module RCBOs

- Exceeds the requirements of EN 61009, IEC 61009
- SP&SwN configuration
- Rated breaking capacity up to 10kA
- Contact position indicator
- Rated voltage Ue ~230V
- Rated frequency 50Hz
- Energy limiting class 3
- Type AC
- Terminal capacity: outgoing terminals 35mm²
- Terminal capacity: busbar side terminals 35mm²

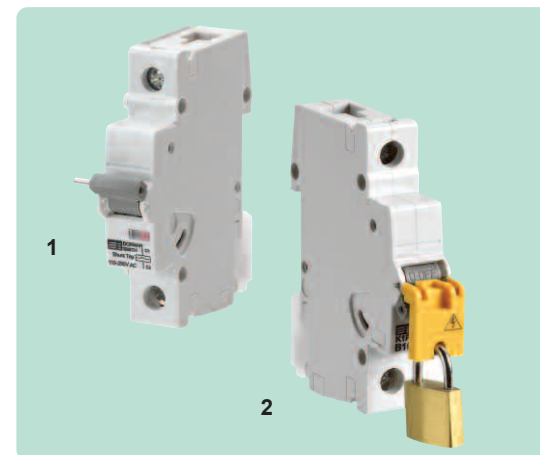
Current rating (A)	Sensitivity (mA)	B type cat. no.	C type cat. no.
6	30	KR2PB0630	KR2PC0630
10	30	KR2PB1030	KR2PC1030
16	30	KR2PB1630	KR2PC1630
20	30	KR2PB2030	KR2PC2030
32	30	KR2PB3230	KR2PC3230
40	30	KR2PB4030	KR2PC4030



Accessories for MCBs and RCBOs

Auxiliary Accessories	Picture	Cat. no.
MCB shunt trip (240V AC)	1	KST240
MCB auxiliary/switch contact		KAUX1

Padlocking	Picture	Cat. no.
MCB dolly locking device	2	KDL
Padlock for dolly locking device		XPL



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B-type Modular Devices



Double-pole RCCBs

- Exceeds the requirements of EN 61008
- Voltage 230/400V 50/60Hz
- Type AC
- Terminal capacity: 40A-63A: 25mm²
- Terminal capacity: 100A: 35mm²

Current rating (A)	Sensitivity (mA)	Type	Width (mm)	Cat. no.
40	30	AC	35	EE40/30/2
40	100	AC	35	EE40/100/2
63	30	AC	35	EE63/30/2
63	100	AC	35	EE63/100/2
63	300	AC	35	EE63/300/2
100	30	AC	35	EE100/30/2
100	100	AC	35	EE100/100/2
100, time delay	100	AC	35	EES100/100/2



Four-pole RCCBs

Current rating (A)	Sensitivity (mA)	Type	Width (mm)	Cat. no.
40	30	AC	70	EE40/30/4
40	100	AC	70	EE40/100/4
40	300	AC	70	EE40/300/4
63	30	AC	70	EE63/30/4
63	100	AC	70	EE63/100/4
63	300	AC	70	EE63/300/4
100	30	AC	70	EE100/30/4
100	100	AC	70	EE100/100/4
100	300	AC	70	EE100/300/4
100, time delay	100	AC	70	EES100/100/4



Programmable Timers – DIN-rail Mounted

- 250V ac 50/60Hz
- Running reserve of 3 years
- Switching capacity 150mA

Current rating (A)	Function	Width (mm)	Cat. no.
16A (AC7A)	1 or 2 channel	35	DRT-DW2

When controlling highly inductive loads, a suitably rated contactor should be employed with timers, programmers and relays.



Contactors – DIN-rail Mounted

- Exceeds the requirements of EN 61095
- May require de-rating when used with inductive loads – see Contactor De-rating table in the Technical Applications section

Current rating (A)	Width (mm)	Contacts	Cat. no.
20A	17.5	2P N/O	EE2P20CO
20A	35	2P N/C	EE2P20CC
25A	35	4P N/O	EE4P25CO
25A	35	4P N/C	EE4P25CC
40A	54	4P N/O	EE4P40CO
40A	54	4P N/C	EE4P40CC
63A	54	4P N/O	EE4P63CO
63A	54	4P N/C	EE4P63CC
Venting kit *	9	-	LLMV

* Ventilation module must be fitted between alternate pairs of contactors to prevent overheating.

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Meters, Current Transformers and Wiring Looms

DIN-rail Mounted Meters for Incoming Circuits

- 4 modules width
- Fully programmable CT ratios

Description	Outputs	Width (mm)	Cat. no.
1-phase/3-phase digital multi-function meter	1 pulse & 1 Modbus	71	RI3-01

Note: Connection kit DBXCKR must be ordered to provide the additional DIN-rail needed to mount these devices integral to distribution board below the incoming disconnecter.



Panel Mounted Meters for Incoming Circuits

- 96mm x 96mm dimensions
- Low profile
- Fully programmable CT ratios
- Can be configured single or three phase

Device Type	Outputs	Width (mm)	Cat. no.
1-phase/3-phase digital kWh meter	1 pulse	96	CI1-01
1-phase/3-phase digital multi-function meter	1 pulse	96	INT-1630-M-5-M-100
1-phase/3-phase digital multi-function meter	1 pulse & 1 Modbus	96	INT-1630-M-5-M-110
1-phase/3-phase digital multi-function meter	1 pulse	96	CI3-01
Optional pulse plug-in module for Ci meter	–	–	PUL-01
RS485 Modbus plug-in module for Ci meter	–	–	MOD-01



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Meters, Current Transformers and Wiring Looms



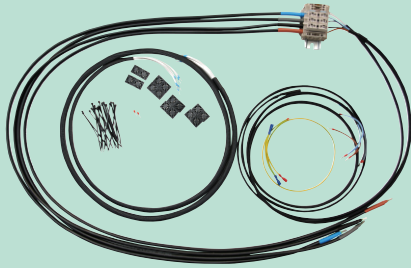
Measuring Current Transformers

- Up to Class 0.5 accuracy
- System voltage up to 720V
- Secondary output of 5A
- Operating temperature range of -20°C to $+70^{\circ}\text{C}$

Description.	Maximum Cable (mm)	Cat. no.
100A 3-in-1 CT case size 35mm	95	M3N1-35-100/5
125A 3-in-1 CT case size 35mm	95	M3N1-35-125/5
200A 3-in-1 CT case size 35mm	95	M3N1-35-200/5
250A 3-in-1 CT case size 35mm	95	M3N1-35-250/5
Meter spreader box	-	DBMSB

Wiring Looms for TP&N Applications (refer to page 33 for application details)

- 1A fuse (rated 400V) metering harness
- Current transformer harness



Description	For use with	Cat. no.
Wiring loom for single meter	DBX04R – DBX16R distribution boards	DBXW16
Wiring loom for single meter	DBX20R – DBX24R distribution boards	DBXW24
Wiring loom for single meter for top distribution board (vertical stacking)	DBX04R – DBX16R distribution boards	DBXW16T

Note: Meters, current transformers and enclosure to be ordered separately.

Power Loom for Sub-Metered Distribution Boards (refer to page 33 for application details)

- 125A and 250A power loom for joining two distribution boards



Description	Current rating	Cat. no.
Power loom for sub metered distribution board	125A max	DBXWP125
Power loom for sub metered distribution board	250A max	DBXWP250

Power loom for single 125A max DBXWP125S metered DB.

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B-type Assembled Boards Range

Customised assembled boards available

125A - Horizontal Arrangement with Two Multi-function Meters

- Two 125A switch disconnectors fitted:
One for isolation of whole arrangement One for isolation of lighting circuits only
- Two meter displays for separate readings of power and lighting consumption
- All power and control wiring fully tested and fitted
- Multi-function meter with pulse output for connection to a compatible BMS system

No. of power TP ways	No. of TP lighting ways	Dimensions H x W x D	Cat. no.
6	6	811 x 968 x 160	DBXC06NAH06CA
12	12	971 x 968 x 160	DBXC12NAH12CA

125A - Vertical Arrangement with One Multi-function Meter (Lighting Only)

- Two 125A switch disconnectors fitted:
One for Isolation of whole arrangement One for isolation of lighting circuits only
- One meter display for readings of lighting consumption only
- All power and control wiring fully tested and fitted
- Multi-function meter with pulse output for connection to a compatible BMS system

No. of power TP ways	No. of TP lighting ways	Dimensions H x W x D	Cat. no.
8	6	1452 x 484 x 160	DBXC08NNV06CA
12	8	1612 x 484 x 160	DBXC12NNV08CA

125A - Vertical Arrangement with Two Meters (kWh or Multi-function)

- Two 125A switch disconnectors fitted:
One for Isolation of whole arrangement One for isolation of lighting circuits only
- Two meter displays for separate readings of power and lighting consumption
- All power and control wiring fully tested and fitted
- Both meters have a pulse output for connection to a compatible BMS system

Meter type	No of power TP ways	No of TP lighting ways	Dimensions H x W x D	Cat. no.
Multi-function	6	4	1345 x 484 x 160	DBXC06NAV04CA
Multi-function	8	6	1452 x 484 x 160	DBXC08NAV06CA
Multi-function	12	8	1612 x 484 x 160	DBXC12NAV08CA
kWh	8	6	1452 x 484 x 160	DBXC08NVJ06CJ
kWh	12	8	1612 x 484 x 160	DBXC12NVJ08CJ

250A - Vertical Arrangement with Two Meters (kWh or Multi-function)

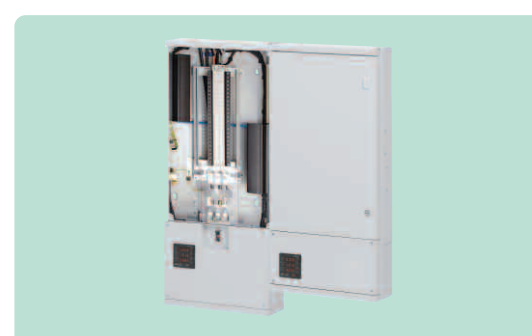
- One 250A switch disconnector fitted providing isolation for whole arrangement
- Two meter displays for separate readings of power and lighting consumption
- All power and control wiring fully tested and fitted
- Both kWh and multi-function meters have a pulse output for connection to a compatible BMS system

Meter type	No. of power TP ways	No. of TP lighting ways	Dimensions H x W x D	Cat. no.
Multi-function	8	6	1570 x 484 x 160	DBXE08NAV06NA
Multi-function	12	8	1730 x 484 x 160	DBXE12NAV08NA
kWh	8	6	1570 x 484 x 160	DBXE08NVJ06NJ
kWh	12	8	1730 x 484 x 160	DBXE12NVJ08NJ

250A - Horizontal Arrangement with Two Multi-function Meters

- One 250A switch disconnector fitted providing isolation for whole arrangement
- Two meter displays for separate readings of power and lighting consumption
- All power and control wiring fully tested and fitted
- Both kWh and multi-function meters have a pulse output for connection to a compatible BMS system

No. of power TP ways	No. of TP lighting ways	Dimensions H x W x D	Cat. no.
8	8	972 x 968 x 160	DBXE08NAH08NA



Loadlimiter 63 Selection Chart - B-type

B-type Distribution Boards (without incoming device)				
Busbar rating	TP outgoing ways	Height (mm)	Weight (kg)	Cat. no.
250A	4	544	10	DBX04R
250A	6	598	11	DBX06R
250A	8	651	12	DBX08R
250A	12	758	15	DBX12R
250A	16	865	18	DBX16R
250A	20	1025	22	DBX20R
250A	24	1132	27	DBX24R

B-type Incoming YA3 MCCB Enclosure			
	Height (mm)	Weight (kg)	Cat. no.
3-pole housing	321	8	DBXYA3
4-pole housing	321	8	DBXYA3

B-type Service Centres			
	Height (mm)	Weight (kg)	Cat. no.
18 x 1-pole ways (single row)	213	5	DBS18X
36 x 1-pole ways (double row)	427	8	DBS36X
Cable spreader box	213	3	DBMSB

B-type Distribution Boards (complete with incoming device/s)						
Busbar rating	TP outgoing ways	Height (mm)	Width (mm)	Arrangement	Meters	Cat. no.
125	6/6	811	968	Horizontal	2 x MF	DBXC06NAH06CA
125	12/12	971	968	Horizontal	2 x MF	DBXC12NAH12CA
125	8/6	1452	484	Vertical	1 x MF	DBXC08NNV06CA
125	12/8	1612	484	Vertical	1 x MF	DBXC12NNV08CA
125	6/4	1345	484	Vertical	2 x MF	DBXC06NAV04CA
125	8/6	1452	484	Vertical	2 x MF	DBXC08NAV06CA
125	12/8	1612	484	Vertical	2 x MF	DBXC12NAV08CA
125	8/6	1452	484	Vertical	2 x kWh	DBXC08NJV06CJ
125	12/8	1612	484	Vertical	2 x kWh	DBXC12NJV08CJ
250	8/6	1570	484	Vertical	2 x MF	DBXE08NAV06NA
250	12/8	1730	484	Vertical	2 x MF	DBXE12NAV08NA
250	8/6	1570	484	Vertical	2 x MF	DBXE08NJV06NJ
250	12/8	1730	484	Vertical	2 x MF	DBXE12NJV08NJ
250	8/8	972	968	Horizontal	15 x MF	DBXE08NAH08NA

Accessories for all B-type Distribution Boards	
Description	Cat. no.
Conversion kits plus spares	
TP&N to SP&N conversion kit	DBXTS
Spare end plate	DBXEP
RCCB, Contactor, 4-pole switch disconnecter connection kit	DBXCKR
Fixing kit for 24 way distribution boards	DBX24FK
Blank way label for 24 way distribution boards	DBX24WL
Blanking pieces	
MCB blanks (4xTP MCB ways + 12 busbar terminal blanks)	DBXBP
MCB blanks (5xSP MCB ways + 5 busbar terminal blanks)	DBXBM
MCB blanks (5x½ MCB Ways)	DBXBH
Joining kit	
Mechanical joining kit (For joining two distribution boards vertically)	DBXJK
Terminal bars	
Terminal bar for 6 ways	DBXT06
Terminal bar for 12 ways	DBXT12
Terminal bar for 18 ways	DBXT18
Terminal bar for 24 ways	DBXT24
Blanking kits	
Busbar terminal blanks (set of 10)	DAXTP
Earth bar kits	
Earth bar	DAXEB
Earth bar isolation kit	DBXL
Double earth bar facility	
Earth bar kit with terminal for each outgoing way (where ** = 04, 06, 08, 12, 16, 20 or 24 ways)	DBTE**X
Door lock kits	
Cylinder door lock	DBXCL
Padlock bracket kit	DBXPL

Loadlimiter 63 Selection Chart - B-type

Incoming Devices				
Device type	Max. cable (mm ²)	Sensitivity (mA)	Incoming device cat. no.	Connection kit cat. no.
Switch disconnecter				
100A, 3-pole	50	-	AV3100	N/A
100A, 4-pole	50	-	AV4100	DBXCKR
125A, 3-pole	50	-	AV3125	N/A
125A, 4-pole	50	-	AV4125	DBXCKR
250A, 3-pole	150	-	YA3B3P250D	DBXYA3
250A, 4-pole	150	-	YA3B4P250D	DBXYA3
4-pole RCCB				
40A, type AC	35	30	EE40/30/2	DBXCKR
40A, type AC	35	100	EE40/100/2	DBXCKR
63A, type AC	35	30	EE63/30/4	DBXCKR
63A, type AC	35	100	EE63/100/4	DBXCKR
63A, type AC	35	300	EE63/300/4	DBXCKR
100A, type AC	35	30	EE100/30/4	DBXCKR
100A, type AC	35	100	EE100/100/4	DBXCKR
100A, type AC	35	300	EE100/300/4	DBXCKR
Contactors				
40A, 4-pole	-	-	EE4P40CO	DBXCKR
63A, 4-pole	-	-	EE4P63CO	DBXCKR

Direct Connection	Max. cable (mm ²)	Cat. no.
Terminals	35	DBXD0
Terminals	70	DBXD1
Terminals	150	DBXD2

Surge suppression	Cat. no.
Connection kit for surge suppression	DBXCKR
3-phase with neutral/earth surge protection module	DSPM3PN
MOV replacement plug-in SPM	DSPML
MOV neutral/earth replacement plug-in SPM	DSPMNE

Current Transformers				
Description	Cable aperture (mm)	Height (mm)	Weight (kg)	Cat. no.
100A current transformer	25	80	<1	M3N1-35-100/5
125A current transformer	25	80	<1	M3N1-35-125/5
200A current transformer	25	80	<1	M3N1-35-200/5
250A current transformer	25	80	<1	M3N1-35-250/5

B-type Metering			
	Outputs	Width (mm)	Cat. no.
1-phase/3-phase DIN-rail mounting digital multi-function meter	1 pulse & 1 Modbus	71	RI3-01
1-phase/3-phase digital kWh meter	1 pulse	96	CI1-01
1-phase/3-phase digital multi-function meter	1 pulse	96	INT-1630-M-5-M-100
1-phase/3-phase digital multi-function meter	1 pulse & 1 Modbus	96	INT-1630-M-5-M-110
1-phase/3-phase digital multi-function meter	1 pulse	96	CI3-01
Optional pulse plug-in module for Ci meter	-	-	PUL-01
RS485 Modbus plug-in module for Ci meter	-	-	MOD-01

Loadlimiter 63 Selection Chart - B-type

MCBs– B, C & D types				
10kA/15kA breaking capacity	Current rating (A)	B type cat. no.	C type cat. no.	D type cat. no.
1-pole				
1-pole	6	K1PB06	K1PC06	K1PD06
1-pole	10	K1PB10	K1PC10	K1PD10
1-pole	13	-	-	-
1-pole	16	K1PB16	K1PC16	K1PD16
1-pole	20	K1PB20	K1PC20	K1PD20
1-pole	25	K1PB25	K1PC25	K1PD25
1-pole	32	K1PB32	K1PC32	K1PD32
1-pole	40	K1PB40	K1PC40	T1PD40*
1-pole	50	K1PB50	K1PC50	T1PD50*
1-pole	63	K1PB63	K1PC63	T1PD63*
3-pole				
3-pole	6	K3PB06	K3PC06	K3PD06
3-pole	10	K3PB10	K3PC10	K3PD10
3-pole	13	-	-	-
3-pole	16	K3PB16	K3PC16	K3PD16
3-pole	20	K3PB20	K3PC20	K3PD20
3-pole	25	K3PB25	K3PC25	K3PD25
3-pole	32	K3PB32	K3PC32	K3PD32
3-pole	40	K3PB40	K3PC40	T3PD40*
3-pole	50	K3PB50	K3PC50	T3PD50*
3-pole	63	K3PB63	K3PC63	T3PD63*

* 6kA/10kA - EN60898/EN60947-2

Note: Please be advised that the T series looks physically different to the K series.

RCBO – B & C types				
10kA breaking capacity, Type AC	Current rating (A)	Sensitivity (mA)	B type cat. no.	C type cat. no.
1-pole	6	30	KR1PB0630	KR1PC0630
1-pole	10	30	KR1PB1030	KR1PC1030
1-pole	16	30	KR1PB1630	KR1PC1630
1-pole	20	30	KR1PB2030	KR1PC2030
1-pole	32	30	KR1PB3230	KR1PC3230
1-pole	40	30	KR1PB4030	KR1PC4030
1-pole	45	30	KR1PB4530	KR1PC4530
1-pole	6	100	-	KR1PC06100
1-pole	10	100	-	KR1PC10100
1-pole	16	100	-	KR1PC16100
1-pole	20	100	-	KR1PC20100
1-pole	32	100	-	KR1PC32100
1-pole	40	100	-	KR1PC40100

Accessories for MCBs and RCBOs		Cat. no.
MCB shunt trip (240V AC)		KST240
MCB auxiliary/switch contact		KAUX1
Padlocking		
MCB dolly locking device		KDL
Padlock for dolly locking device		XPL
Blanking pieces		
MCB blanks (4xTP MCB ways + 12 busbar terminal blanks)		DBXBP
MCB blanks (5xSP MCB ways + 5 busbar terminal blanks)		DBXBM
MCB blanks (5x½ MCB ways)		DBXBH

Loadlimiter 63 Selection Chart - B-type

2-pole RCCB				
Description	Current rating (A)	Function	Width (mm)	Cat. no.
Type AC	40	30mA	35	EE40/30/2
Type AC	40	100mA	35	EE40/100/2
Type AC	63	30mA	35	EE63/30/2
Type AC	63	100mA	35	EE63/100/2
Type AC	63	300mA	35	EE63/300/2
Type AC	80	30mA	35	EE80/30/2
Type AC	100	30mA	35	EE100/30/2
Type AC	100	100mA	35	EE100/100/2
Type AC time delay	100	100mA	35	EES100/100/2

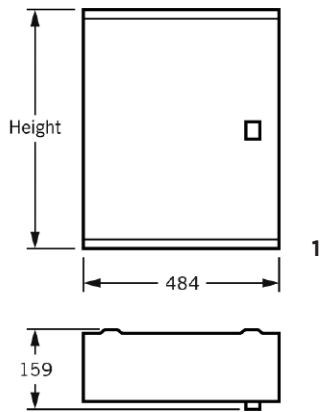
4-pole RCCB				
Description	Current rating (A)	Sensitivity	Width (mm)	Cat. no.
Type AC	40	30mA	70	EE40/30/4
Type AC	40	100mA	70	EE40/100/4
Type AC	63	30mA	70	EE63/30/4
Type AC	63	100mA	70	EE63/100/4
Type AC	63	300mA	70	EE63/300/4
Type AC	80	30mA	70	EE80/30/4
Type AC	100	30mA	70	EE100/30/4
Type AC	100	100mA	70	EE100/100/4
Type AC time delay	100	100mA	70	EES100/100/4

Programmable Timer			Width (mm)	Cat. no.
Timer	16A (AC7A)	1 or 2 channel	35	DRT-DW2

Contactors	Current Rating (A)	Contacts	Width (mm)	Cat. no.
Modular contactor, AC1 230V	20	2P N/O	17.5	EE2P20CO
Modular contactor, AC1 230V	20	2P N/C	17.5	EE2P20CC
Modular contactor, AC1 400V	25	4P N/O	35	EE4P25CO
Modular contactor, AC1 400V	25	4P N/C	35	EE4P25CC
Modular contactor, AC1 400V	40	4P N/O	35	EE4P25CC
Modular contactor, AC1 400V	40	4P N/C	35	EE4P40CC
Modular contactor, AC1 400V	63	4P N/O	54	EE4P63CO
Modular contactor, AC1 400V	63	4P N/C	54	EE4P63CC
Venting kit			9	LLMV

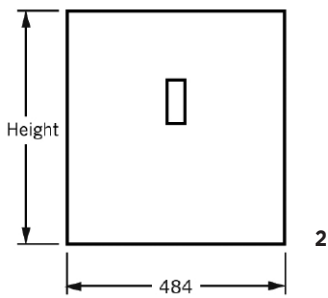
Loadlimiter 63

Outline Drawings and Dimensions



B-type Distribution Boards (without incoming device)

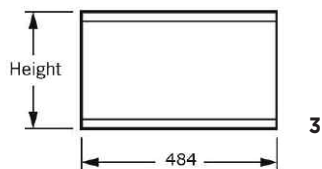
3-pole ways	Drawing no.	Height (mm)	Weight (kg)	Cat. no.
4	1	544	10	DBX04R
6	1	598	11	DBX06R
8	1	651	12	DBX08R
12	1	758	15	DBX12R
16	1	865	18	DBX16R
20	1	1025	22	DBX20R
24	1	1132	27	DBX24R



YA3 Frame MCCB Enclosure for B-type Distribution Boards

Incomer	Drawing no.	Height (mm)	Weight (kg)	Cat. no.
3-pole MCCB	2	321	8	DBXYA3
4-pole MCCB	2	321	8	DBXYA3

Overall depth with incomer fitted (including dolly) 171mm

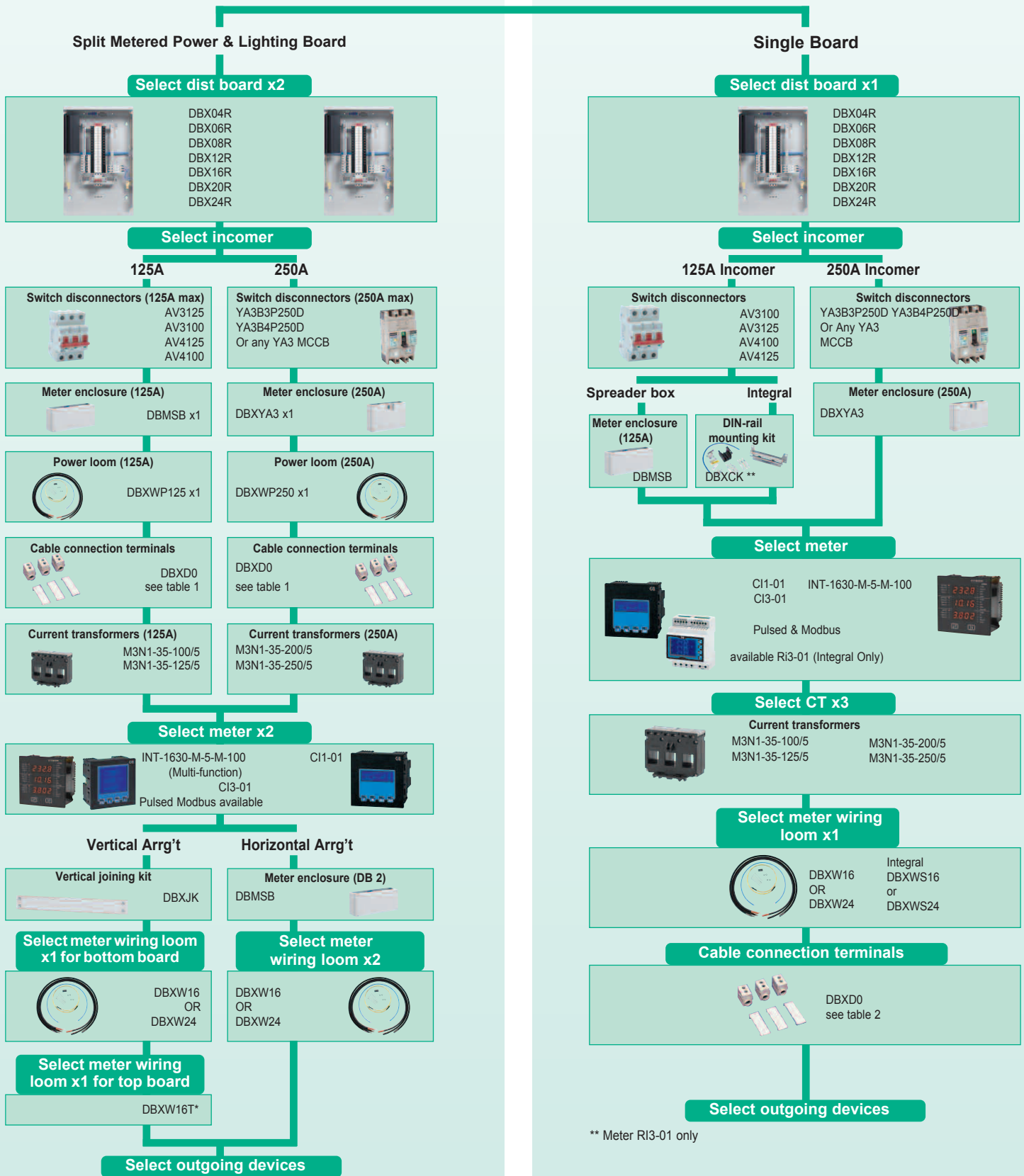


Modular Ways	Height (mm)	Weight (kg)	Cat. no.
18 x 1-pole ways (single row)	213	5	DBS18X
36 x 1-pole ways (double row)	427	8	DBS36X
General purpose enclosure	213	3	DBMSB

All dimensions in mm

Supplied without top or bottom plate. Intended for use with removable plate from distribution board.

Loadlimiter 63 Metering Selection Chart



* Top board max size 16 way (vertical arrangement only)

Table 1

Quantity of AV (switch disconnectors)	DBXD0's required (125A)	DBXD0'S required (250A)	DBXCK required
1	5	3	0
2	4	2	0
2	3	N/A	1

Table 2

	DBXD0 required 125A	DBXD0 required 250A	DBXWP125 (125A rated only)
Main in-comer mounted in DBMSB	2	1	1
Integral Main in-comer mounted in standard position	1	0	-

Flow Chart Examples



Split metered 125A

Example 1 Requirement – Vertically stacked, 125A split metered power and lighting distribution board

- 8 way TP&N power board
- 6 TP&N lighting board
- Multi-function meters

Example 1: Bill of Material List

Cat. no.	Quantity	Description
DBX08R	1	8 way TP&N distribution board
DBX06R	1	6 way TP&N distribution board
AV3125	1	125A – 3P switch disconnecter
DBMSB	1	Spreader box with facility to mount 2 panel mounted meters
DBXJK	1	Mechanical joining kit for joining two vertically stacked distribution boards
DBXWP125	1	Power loom for split metered distribution board (125A)
INT-1630-M-5-M-100	2	3-Phase Integra 1630 multi-function meter with 1 pulse output
DBXW16	1	Wiring loom for single meter
DBXW16T	1	Wiring loom for single meter for top distribution board when vertically stacked
DBXD0	5	Cable joining terminal kit
M3N1-35-125/5	2	125A 3-in-1 current transformers



Split metered 250A

Example 2 Requirement – Single Metered Distribution Board (250A)

- 24 way TP&N distribution board
- KWh meter

Example 2: Bill of Material List

Cat. no.	Quantity	Description
DBX24R	1	24 way TP&N distribution board
YA3B3P250D	1	250A–3P MCCB switch disconnecter
DBXYA3	1	250A incoming enclosure with facility to mount 2 panel mounted meters
C11-01 and PUL-01	1	3-phase Kilowatt hour meter with 1 pulse output (panel mounted)
DBXW24	1	Wiring loom for single meter
DBXD0	1	Cable joining terminal kit
M3N1-35-250/5	1	250A current transformers



Single metered 125A & 250A

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