

# MCB Distribution Boards

A Type and B Type



XBoard Consumer Units

XPole Miniature Circuit Breakers, RCDs and RCBOs

A + B Type Distribution Boards

Mini Panel Boards

Panel Boards

Product Catalogue and Selection Guide

A + B Type Distribution Boards

XPole – Miniature Circuit Breakers, RCDs, RCBOs and Installation Accessories

**MOELLER**



Think future. Switch to green.

# A & B Type MCB Distribution Board

Moeller's MCB Distribution Board range has been developed to meet the needs of UK specifiers, electrical contractors and distributors, resulting in a high quality, value-for-money board that is versatile and easy to install, conforming to the latest British, European and international standards.



Fully reversible door  
(glazed option)

Busbar stack rated at  
125A for A Type boards and  
250A for B Type boards

Removable and interchangeable  
gland plates top and bottom (one  
blank and one with knockouts)

Single piece copper  
busbar eliminates  
potential hotspots

Compact pan assembly  
provides generous  
wiring space

All terminal and fixing  
screws use just one  
screwdriver – a No 2  
POZIE screwdriver

Removable pan  
assembly with  
keyhole fixings

Easily accessible  
Earth and Neutral  
bars

Neutral  
disconnect

Multifunctional terminal area offers  
a choice of direct connection and a  
wide range of incoming devices

160A/250A main incomer  
can be fitted with additional  
incoming enclosure

# MCB Distribution Boards – Type A

## A-Type, Single Phase with 125A Busbar

| Number of Outgoing Ways | Part Number | Height (mm) | Width (mm) | Depth (mm) |
|-------------------------|-------------|-------------|------------|------------|
| 6                       | FG-A-06     | 285         | 220        | 150        |
| 12                      | FG-A-12     | 285         | 330        | 150        |
| 19                      | FG-A-19     | 285         | 480        | 150        |



## Main Switch – 2 Pole

| Rated Current I <sub>n</sub> (A) | kA Rating | Part Number |
|----------------------------------|-----------|-------------|
| 63                               | 10        | IS-63/2     |
| 80                               | 10        | IS-80/2     |
| 100                              | 10        | Z-SM-100/2  |



## Standard AC RCDs – 2 Pole

| Rated Current I <sub>n</sub> (A) | Tripping Current |                 |               |                 |
|----------------------------------|------------------|-----------------|---------------|-----------------|
|                                  | 30mA             | 100mA           | 300mA         | 500mA           |
| 80                               | PFIM-80/2/003    | PFIM-80/2/01    | PFIM-80/2/03  | PFIM-80/2/05    |
| 100                              | PFIM-100/2/003   | PFIM-100/2/01-A | PFIM-100/2/03 | PFIM-100/2/05-A |



## Technical Data

|                                |                                            |
|--------------------------------|--------------------------------------------|
| Applicable Standard            | BS EN 60439-3                              |
| Busbar Nominal Rating          | 125A                                       |
| Busbar Short Circuit withstand | 16kA                                       |
| Rated Voltage                  | 230V AC 50/60Hz                            |
| Limits of Operation            | 40°C ambient 50% RH                        |
| Maximum Incomer Rating         | 100A                                       |
| Maximum Outgoing Device        | 63A                                        |
| Ingress Protection             | IP40 with door closed, IP2X with door open |
| Enclosure Steel Gauge          | 1.5mm                                      |
| Paint Finish                   | RAL 7035 textured, epoxy powder coated     |
| Gland Plate                    | 1 blank and 1 with knockouts               |

| Maximum Cable Capacity |                   |
|------------------------|-------------------|
| Neutral Bar            | 16mm <sup>2</sup> |
| Earth Bar              | 16mm <sup>2</sup> |
| Main Earth Termination | 16mm <sup>2</sup> |
| Incomers and Outgoers  |                   |
| RCBO                   | 25mm <sup>2</sup> |
| RCD 63A                | 25mm <sup>2</sup> |
| RCD 80A/100A           | 50mm <sup>2</sup> |
| MCB                    | 25mm <sup>2</sup> |
| Switch Disconnectors   | 50mm <sup>2</sup> |

# MCB Distribution Boards – Type B

## B-Type, Three Phase with 250A Busbar

| Number of Outgoing Ways | Part Number | Height (mm) | Width (mm) | Depth (mm) |
|-------------------------|-------------|-------------|------------|------------|
| 4                       | FG-B-04     | 570         | 460        | 150        |
| 6                       | FG-B-06     | 570         | 460        | 150        |
| 8                       | FG-B-08     | 885         | 460        | 150        |
| 12                      | FG-B-12     | 885         | 460        | 150        |
| 18                      | FG-B-18     | 1140        | 460        | 150        |
| 24                      | FG-B-24     | 1140        | 460        | 150        |



## Main Switch

| Rated Current I <sub>n</sub> (A) | kA Rating | 2 Pole     | 3 Pole     | 4 Pole     |
|----------------------------------|-----------|------------|------------|------------|
| 100                              | 10        | Z-SM-100/2 | Z-SM-100/3 | Z-SM-100/4 |



## Standard AC RCDs – 4 Pole

| Rated Current I <sub>n</sub> (A) | Tripping Current |               |               |               |
|----------------------------------|------------------|---------------|---------------|---------------|
|                                  | 30mA             | 100mA         | 300mA         | 500mA         |
| 80                               | PFIM-80/4/003    | PFIM-80/4/01  | PFIM-80/4/03  | PFIM-80/4/05  |
| 100                              | PFIM-100/4/003   | PFIM-100/4/01 | PFIM-100/4/03 | PFIM-100/4/05 |



## Incoming Devices 25kA

| For use with | Rated Current (A) | Description                  | Part Number |
|--------------|-------------------|------------------------------|-------------|
| FG-B/INC-125 | 125               | Switch Disconnecter          | PSC1-125/3  |
| FG-B/INC-125 | 125               | Moulded Case Circuit Breaker | PMC1-125/3  |
| FG-B/INC-250 | 250               | Switch Disconnecter          | PSC2-250/3  |
| FG-B/INC-250 | 250               | Moulded Case Circuit Breaker | PMC2-250/3  |



## Technical Data

|                                |                                            |
|--------------------------------|--------------------------------------------|
| Applicable Standard            | BS EN 60439-3                              |
| Busbar Nominal Rating          | 250A                                       |
| Busbar Short Circuit Withstand | 16kA 1.2sec / 22kA 0.5sec                  |
| Rated Voltage                  | 415V AC 50/60Hz                            |
| Limits of Operation            | 40°C ambient 50% RH                        |
| Maximum Incomer Rating         | Internal device 100A, external device 250A |
| Maximum Outgoing Device        | 63A                                        |
| Ingress Protection             | IP40 with door closed, IP2X with door open |
| Enclosure Steel Gauge          | 1.5mm                                      |
| Paint Finish                   | RAL 7035 textured, epoxy powder coated     |
| Gland Plate                    | 1 blank and 1 with knockouts               |

|                           |                    |
|---------------------------|--------------------|
| Maximum Cable Capacity    |                    |
| Neutral Bar               | 70mm <sup>2</sup>  |
| Earth Bar                 | 70mm <sup>2</sup>  |
| Main Earth Termination    | 70mm <sup>2</sup>  |
| Incomers and Outgoers     |                    |
| RCBO                      | 25mm <sup>2</sup>  |
| RCD 63A                   | 25mm <sup>2</sup>  |
| RCD 80A/100A              | 50mm <sup>2</sup>  |
| MCB                       | 25mm <sup>2</sup>  |
| Switch Disconnectors – IS | 50mm <sup>2</sup>  |
| MCCB/Switch Disconnectors | 120mm <sup>2</sup> |

# Accessories

| Description / Used for                                               |  | Part Number   |
|----------------------------------------------------------------------|--|---------------|
| Adapter kit to convert a TP&N board to a SP&N board                  |  |               |
| FG-B                                                                 |  | FG-TP/SP      |
| Kit for installing neutral link for 2+4 Pole incomers                |  |               |
| FG-B                                                                 |  | FG-B/K-4      |
| Glazed Door                                                          |  |               |
| FG-B4, FG-B6                                                         |  | FG-B/GD-04/06 |
| FG-B8, FG-B12                                                        |  | FG-B/GD-08/12 |
| FG-B18, FG-B24                                                       |  | FG-B/GD-18/24 |
| Spreader boxes (without door)                                        |  |               |
| small                                                                |  | FG-B/ES       |
| large                                                                |  | FG-B/EX       |
| Incomer enclosure – supplied with connection leads                   |  |               |
| use with PMC1/PSC1 – 125A rated                                      |  | FG-B/INC-125  |
| use with PMC2/PSC2 – 250A rated                                      |  | FG-B/INC-250  |
| Modular service box with DIN Rail and earth and neutral terminal bar |  |               |
| 8 module DIN rail                                                    |  | FG-MS-06      |
| 14 module DIN rail                                                   |  | FG-MS-12      |
| 21 module DIN rail                                                   |  | FG-MS-19      |
| Busbar kit for N, PE and Clean PE                                    |  |               |
| 2 x 13 terminals                                                     |  | FG-B/TS-04/06 |
| 2 x 22 terminals                                                     |  | FG-B/TS-08/12 |
| 2 x 40 terminals                                                     |  | FG-B/TS-18/24 |
| Accessories for FGA/FGB                                              |  |               |
| Lock and key                                                         |  | FG-DOORLOCK   |
| Busbar tag shrouds (pack of 20)                                      |  | FG-BTS        |
| Blanking strips (6 modules)                                          |  | AP-45-W       |



# Miniature Circuit Breakers

10kA – IEC 60897

## Single Pole

| Rated Current<br>I <sub>n</sub> (A) | B Type   | C Type   | D Type   |
|-------------------------------------|----------|----------|----------|
| 6                                   | PLSM-B6  | PLSM-C6  | PLSM-D6  |
| 10                                  | PLSM-B10 | PLSM-C10 | PLSM-D10 |
| 16                                  | PLSM-B16 | PLSM-C16 | PLSM-D16 |
| 20                                  | PLSM-B20 | PLSM-C20 | PLSM-D20 |
| 25                                  | PLSM-B25 | PLSM-C25 | PLSM-D25 |
| 32                                  | PLSM-B32 | PLSM-C32 | PLSM-D32 |
| 40                                  | PLSM-B40 | PLSM-C40 | PLSM-D40 |
| 50                                  | PLSM-B50 | PLSM-C50 | –        |
| 63                                  | PLSM-B63 | PLSM-C63 | –        |



## Two Pole

| Rated Current<br>I <sub>n</sub> (A) | B Type     | C Type     | D Type     |
|-------------------------------------|------------|------------|------------|
| 6                                   | PLSM-B6/2  | PLSM-C6/2  | PLSM-D6/2  |
| 10                                  | PLSM-B10/2 | PLSM-C10/2 | PLSM-D10/2 |
| 16                                  | PLSM-B16/2 | PLSM-C16/2 | PLSM-D16/2 |
| 20                                  | PLSM-B20/2 | PLSM-C20/2 | PLSM-D20/2 |
| 25                                  | PLSM-B25/2 | PLSM-C25/2 | PLSM-D25/2 |
| 32                                  | PLSM-B32/2 | PLSM-C32/2 | PLSM-D32/2 |
| 40                                  | PLSM-B40/2 | PLSM-C40/2 | PLSM-D40/2 |
| 50                                  | PLSM-B50/2 | PLSM-C50/2 | –          |
| 63                                  | PLSM-B63/2 | PLSM-C63/2 | –          |

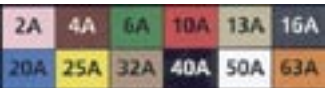


## Three Pole

| Rated Current<br>I <sub>n</sub> (A) | B Type     | C Type     | D Type     |
|-------------------------------------|------------|------------|------------|
| 6                                   | PLSM-B6/3  | PLSM-C6/3  | PLSM-D6/3  |
| 10                                  | PLSM-B10/3 | PLSM-C10/3 | PLSM-D10/3 |
| 16                                  | PLSM-B16/3 | PLSM-C16/3 | PLSM-D16/3 |
| 20                                  | PLSM-B20/3 | PLSM-C20/3 | PLSM-D20/3 |
| 25                                  | PLSM-B25/3 | PLSM-C25/3 | PLSM-D25/3 |
| 32                                  | PLSM-B32/3 | PLSM-C32/3 | PLSM-D32/3 |
| 40                                  | PLSM-B40/3 | PLSM-C40/3 | PLSM-D40/3 |
| 50                                  | PLSM-B50/3 | PLSM-C50/3 | –          |
| 63                                  | PLSM-B63/3 | PLSM-C63/3 | –          |



## Toggle Colours



# Combined RCD/MCB (RCBO)

## Single Module (1+N)

### Type B

| Rated Current<br>I <sub>n</sub> (A) | Sensitivity      |                  |                 |                 |
|-------------------------------------|------------------|------------------|-----------------|-----------------|
|                                     | 10mA             | 30mA             | 100mA           | 300mA           |
| 6                                   | PKS6-6/1N/B/001  | PKS6-6/1N/B/003  | PKS6-6/1N/B/01  | PKS6-6/1N/B/03  |
| 10                                  | PKS6-10/1N/B/001 | PKS6-10/1N/B/003 | PKS6-10/1N/B/01 | PKS6-10/1N/B/03 |
| 16                                  | PKS6-16/1N/B/001 | PKS6-16/1N/B/003 | PKS6-16/1N/B/01 | PKS6-16/1N/B/03 |
| 20                                  | PKS6-20/1N/B/001 | PKS6-20/1N/B/003 | PKS6-20/1N/B/01 | PKS6-20/1N/B/03 |
| 25                                  | PKS6-25/1N/B/001 | PKS6-25/1N/B/003 | PKS6-25/1N/B/01 | PKS6-25/1N/B/03 |
| 32                                  | PKS6-32/1N/B/001 | PKS6-32/1N/B/003 | PKS6-32/1N/B/01 | PKS6-32/1N/B/03 |
| 40                                  | PKS6-40/1N/B/001 | PKS6-40/1N/B/003 | PKS6-40/1N/B/01 | PKS6-40/1N/B/03 |



### Type C

| Rated Current<br>I <sub>n</sub> (A) | Sensitivity      |                  |                 |                 |
|-------------------------------------|------------------|------------------|-----------------|-----------------|
|                                     | 10mA             | 30mA             | 100mA           | 300mA           |
| 6                                   | PKS6-6/1N/C/001  | PKS6-6/1N/C/003  | PKS6-6/1N/C/01  | PKS6-6/1N/C/03  |
| 10                                  | PKS6-10/1N/C/001 | PKS6-10/1N/C/003 | PKS6-10/1N/C/01 | PKS6-10/1N/C/03 |
| 16                                  | PKS6-16/1N/C/001 | PKS6-16/1N/C/003 | PKS6-16/1N/C/01 | PKS6-16/1N/C/03 |
| 20                                  | PKS6-20/1N/C/001 | PKS6-20/1N/C/003 | PKS6-20/1N/C/01 | PKS6-20/1N/C/03 |
| 25                                  | PKS6-25/1N/C/001 | PKS6-25/1N/C/003 | PKS6-25/1N/C/01 | PKS6-25/1N/C/03 |
| 32                                  | PKS6-32/1N/C/001 | PKS6-32/1N/C/003 | PKS6-32/1N/C/01 | PKS6-32/1N/C/03 |
| 40                                  | PKS6-40/1N/C/001 | PKS6-40/1N/C/003 | PKS6-40/1N/C/01 | PKS6-40/1N/C/03 |

### Type D

| Rated Current<br>I <sub>n</sub> (A) | Sensitivity<br>10mA |
|-------------------------------------|---------------------|
| 6                                   | PKS6-6/1N/D/001     |
| 10                                  | PKS6-10/1N/D/001    |
| 16                                  | PKS6-16/1N/D/001    |
| 20                                  | PKS6-20/1N/D/001    |

# Control and Switching

## Installation Relays

| Control Voltage | Current AC1 | Contacts  | Module | Part Number |
|-----------------|-------------|-----------|--------|-------------|
| 230V AC         | 20A         | 1N/O      | 1      | Z-RE230/S   |
| 230V AC         | 20A         | 2N/O      | 1      | Z-RE230/SS  |
| 230V AC         | 20A         | 1N/O+1N/C | 1      | Z-RE230/SO  |
| 24V AC          | 20A         | 2N/O      | 1      | Z-RE24/SS   |
| 24V AC          | 20A         | 1N/O+1N/C | 1      | Z-RE24/SO   |
| 24VDC           | 20A         | 2N/O+2N/C | 2      | Z-RE23/2S2O |



## Installation Contactors

| Control Voltage | Current AC1 | Contacts  | Module | Part Number    |
|-----------------|-------------|-----------|--------|----------------|
| 230V AC         | 25A         | 4N/O      | 2      | Z-SCH230/25-40 |
| 230V AC         | 25A         | 4N/C      | 2      | Z-SCH230/25-04 |
| 230V AC         | 25A         | 3N/O+1N/C | 2      | Z-SCH230/25-31 |
| 230V AC         | 25A         | 2N/O+2N/C | 2      | Z-SCH230/25-22 |
| 230V AC         | 40A         | 4N/O      | 4      | Z-SCH230/40-40 |
| 230V AC         | 40A         | 3N/O+1N/C | 4      | Z-SCH230/40-31 |
| 230V AC         | 40A         | 2N/O+2N/C | 4      | Z-SCH230/40-22 |
| 230V AC         | 40A         | 2N/O      | 4      | Z-SCH230/40-20 |
| 230V AC         | 63A         | 4N/O      | 4      | Z-SCH230/63-40 |
| 230V AC         | 63A         | 3N/O+1N/C | 4      | Z-SCH230/63-31 |
| 230V AC         | 63A         | 2N/O+2N/C | 4      | Z-SCH230/63-22 |
| 230V AC         | 63A         | 2N/O      | 4      | Z-SCH230/63-20 |
| 24V AC          | 25A         | 4N/O      | 2      | Z-SCH24/25-40  |
| 24V AC          | 25A         | 2N/O+2N/C | 2      | Z-SCH24/25-22  |



## Staircase Switch

| Function                     | Current AC1 | Contacts | Module | Part Number |
|------------------------------|-------------|----------|--------|-------------|
| with Stop function           | 16A         | 1C/O     | 1      | TLE         |
| with Stop and Alarm function | 16A         | 1C/O     | 1      | TLK         |



## Light Intensity Switch

| Function                       | Current AC1 | Contacts   | Module | Part Number |
|--------------------------------|-------------|------------|--------|-------------|
| DIN-rail-mounting              | 16A         | 1N/O       | 1      | DS-GS/1S    |
| DIN-rail-mounting              | 16A         | 1C/O+timer | 3      | DS-GS/1W    |
| Outdoor installation           | 10A         | 1N/O       |        | DS-GK       |
| Spare sensor for DS-GS         |             |            |        | Z-DS/SENSOR |
| Cap for daylight 100–10,000 Lx |             |            |        | Z-DS/KAPPE  |



Analogue Time Switches

| Drive       | Program    | Contacts | Chan/Mod | Part Number |
|-------------|------------|----------|----------|-------------|
| Synchronous | Day        | 1N/O     | 1/1      | Z-SGS/TA    |
| Synchronous | Day        | 1C/O     | 1/3      | SU-GS/1W-TA |
| Synchronous | Week       | 1C/O     | 1/3      | SU-GS/1W-WO |
| Quartz      | Day        | 1N/O     | 1/1      | SU-GQ-TA    |
| Quartz      | Day        | 1C/O     | 1/3      | SU-GQ/1W-TA |
| Quartz      | Week       | 1C/O     | 1/3      | SU-GQ/1W-WO |
| Quartz      | Day + Week | 2C/O     | 2/6      | SU-GQ/2W-TW |



Digital Time Switches

| Drive  | Program | Contacts | Chan/Mod | Part Number |
|--------|---------|----------|----------|-------------|
| Quartz | Day     | 1C/O     | 1/2      | Z-SDM/1K-TA |
| Quartz | Week    | 1C/O     | 1/2      | Z-SDM/1K-WO |
| Quartz | Week    | 2C/O     | 2/2      | Z-SDM/2K-WO |



Signalling Devices

| Function | Voltage (AC) | Module | Part Number |
|----------|--------------|--------|-------------|
| Buzzer   | 230          | 1      | Z-SUM230    |
| Buzzer   | 24           | 1      | Z-SUM24     |
| Buzzer   | 12           | 1      | Z-SUM12     |
| Bell     | 230          | 1      | Z-GLO230    |
| Bell     | 24           | 1      | Z-GLO24     |
| Bell     | 12           | 1      | Z-GLO12     |



Transformers 230V AC

| Description | Secondary Voltage (V) | Secondary Current (A) | Module | Part Number |
|-------------|-----------------------|-----------------------|--------|-------------|
| Bell (8VA)  | 8                     | 1                     | 2      | TR-G/8      |
| Bell (8VA)  | 4–8–12                | 1–1–0.67              | 2      | TR-G3/8     |
| Bell (8VA)  | 8                     | 1                     | 2      | TR-G/8-S    |
| Bell (18VA) | 4–8–12                | 2–2–1.5               | 2      | TR-G3/18    |
| Bell (24VA) | 12–24                 | 2–1                   | 3      | TR-G2/24    |



Busbar Comb with Fork Connectors (1m length)

| Description   | Poles | Rating | Part Number    |
|---------------|-------|--------|----------------|
| Busbar block  | 1p    | 63A    | Z-GV-10/1P-1TE |
| Busbar block  | 3p    | 63A    | Z-GV-10/3P-3TE |
| Busbar block  | 1p    | 80A    | Z-GV-16/1P-1TE |
| Busbar block  | 3p    | 80A    | Z-GV-16/3P-3TE |
| End cover cap | 2+3p  | 63A    | Z-AK-10/2+3P   |
| End cover cap | 2+3p  | 80A    | Z-AK-16/2+3P   |

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