

EAT•N

MEM

MCB & MCCB Distribution Solutions

Product guide

- MCB distribution boards
- MCBs and MCCBs
- MCCB panelboards
- Individually enclosed MCCBs
- New Metering Solutions



**Designed with
the needs of the
installer in mind**

Eaton's Electrical operations

As a market-leading manufacturer of circuit protection and control equipment, Eaton's world leading switch and fuse-gear, circuit breaker and wiring accessory products are distributed across the globe. Incorporating the latest technological advances, Eaton products are the result of a comprehensive ongoing development programme and comply with the industry's most rigorous quality standards. This all serves to make Eaton an industry benchmark, with unsurpassed quality and performance guaranteed. This extensive product range, together with a lengthy experience and specialist knowledge serves to make Eaton your first source solutions provider.

Find out more on www.eatonelectrical.com



World-Class Support

At Eaton, our goal is to deliver world-class support as well as products.

This is why we continue to invest in our customer service capability to ensure you have easy access to the services you need, when you need them.

Integrated service strategy

Our integrated service strategy is based upon linking key locations and personnel along with a complete range of services to provide you "one-call" customer service. A central support number allows you to access these support services by selecting the product group and service required. We then ensure it is quickly routed to a qualified support agent. The result is service that delivers you solutions ... fast.

A single point of contact for all your enquiries is just one of the benefits you can look forward to as an Eaton customer.

Services Portfolio

Extensive support services

Our service strategy includes an extensive selection of technical and commercial services designed to help you specify, order and receive products quickly and efficiently.

Price & Availability

- Prompt Product Pricing
- Up-to-date stock availability

Order & Shipment status

- Order Checking and Status
- Shipment details

Technical Support

- "Over the phone" resolution
- Technical data assistance
- Selection and cross-reference

After Sales Support

- Debit/Credit note resolution
- Policy Returns support

Project Co-Ordination

- Order tracking for Systems based orders
- On-site Project Management service
- Tailored Delivery service

Engineered Site Services

- Installation and Commissioning
- Maintenance and Service Solution support
- 24 hour "call out" emergency service

Distributor Product Training

- Individual or Group Product training forums
- Use of "In house" training facilities

Two steps to find your product



STEP 1

Choose main group

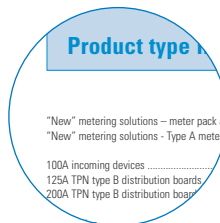


STEP 2

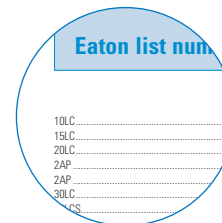
Choose list number

Indexes

Search by product name or list number.



Product type index



Eaton list number index

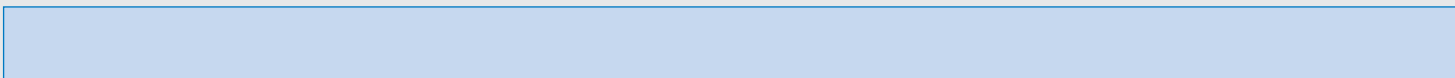
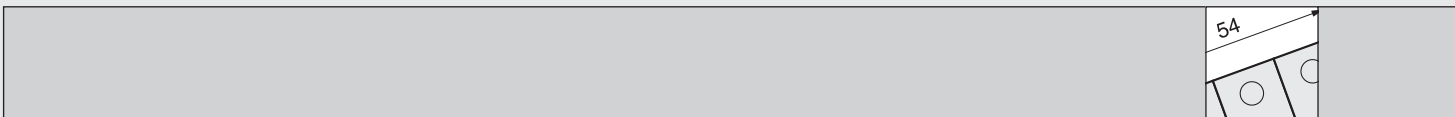
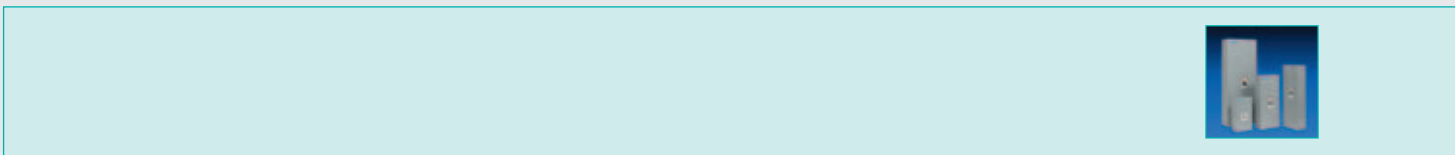
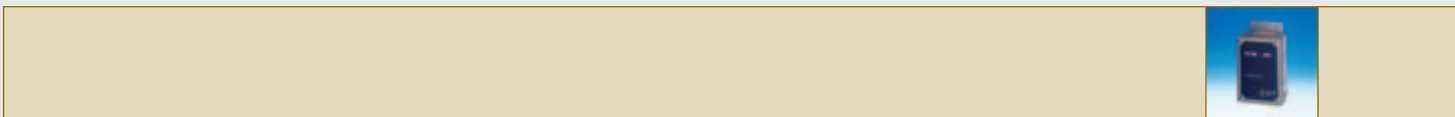
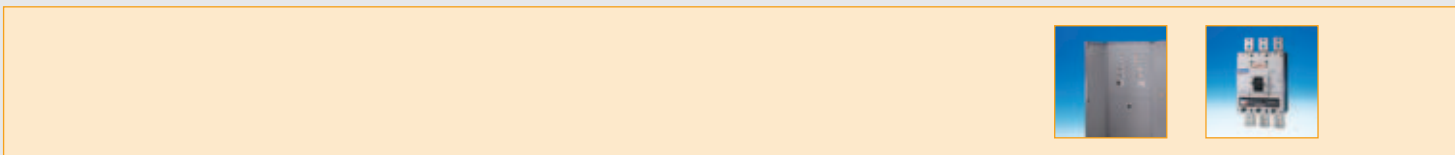
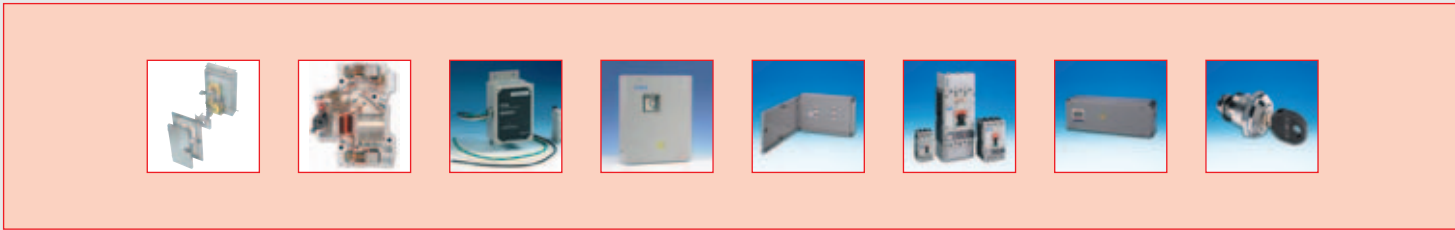
Legend

Function of coloured text bars:

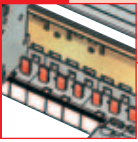
Products

Accessories

Technical data, dimensional drawings & specifications



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Eaton's Memshield 2, type A and B distribution boards provide the ultimate solution for electrical contractors who need to meet the demands from today's facility managers of commercial buildings, educational establishments, hospitals, government buildings, manufacturing operations and other applications that require safe, reliable and high performance protection of their electrical power sub-distribution systems.

The feature packed Eaton type A SPN distribution board

Standard SPN type A distribution boards are available in six sizes with a choice of 2, 4, 7, 10, 13, or 16 outgoing ways. DP versions of type A distribution boards are also available having 5 or 8 DP outgoing ways. A wide range of incomers can be fitted to allow for the flexibility needed in modern installations. Split load and dual tariff SPN type A distribution boards are available with up to 19 outgoing ways. Distribution boards suitable for export markets can be supplied with tin plated busbars. To order, add suffix 'TP' at the end of the distribution board list number e.g **AM13TP**

Incoming Devices

Available for type A distribution boards: 100A lugs; 100A SPSN switch-disconnector; 100A SPSN RCCB. For full range of SPSN RCCBs suitable for use as incoming devices, see page 17. Please consult Eaton for details of an even wider choice of incoming devices.

Outgoing Devices

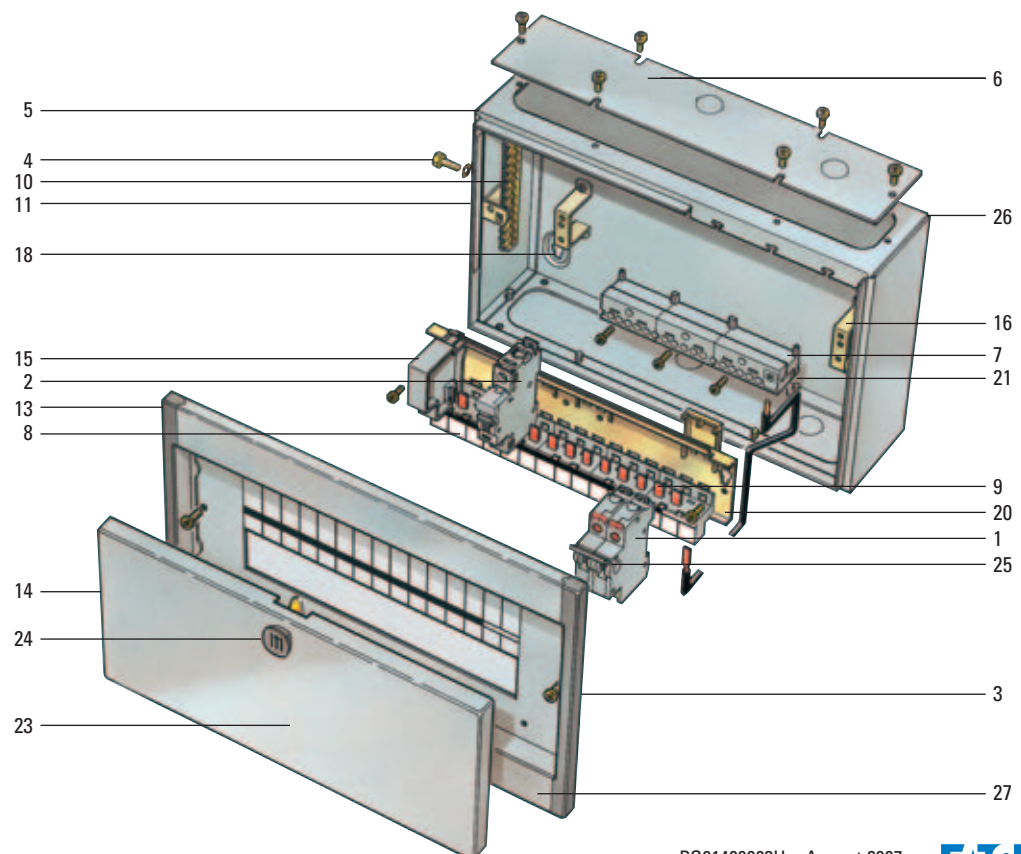
For type A distribution boards: 1-63A SP MCBs. Trip types B, C, D, 10kA to BSEN60898; 5-45A fuse carriers, 16kA to BS1361; 1-63A 18mm SP RCBOs. For double pole distribution boards: 1-63A SPSN or DP MCBs. Trip types B, C, D, 10kA to BSEN60898; 1-63A 36mm SPSN RCBOs.

Features

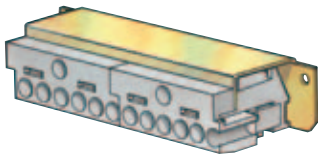
Distribution boards can be stacked vertically. They can be electrically connected to give more outgoing ways by using a coupling kit, see page 17. Eaton's modular control devices can be fitted by using a busbar block kit to adapt the busbar. AM13, AMSL64/37 and AMDT74 distribution boards can be mounted on top of any type B distribution board. A clean earth kit can be used for computer installations.

Double Pole Distribution Boards

Eaton's Memshield 2 double pole distribution boards have been developed for specialist applications. They allow for single pole and switched neutral MCBs to be fitted on all outgoing circuits which is necessary for the control of circuits situated in hazardous areas. SPSN or DP MCBs and SPSN RCBOs can be fitted.



1. Easy fit, DIN-rail mounting, incoming devices simply slot into place easing installation.
2. HRC fuse modules can be fitted in place of outgoing MCBs increasing flexibility.
3. Attractive two-tone grey finish over rust protected steel enclosure for lasting durability.
4. Main earth stud allows earth to be terminated inside or outside the enclosure.
5. Type A distribution boards comply with BS5486:Pt 12 & 13 and BSEN60439-3.
6. Heavy gauge removable gland plates are provided top and bottom for ease of installation.
7. Shrouded neutral bar for increased safety.
8. Fully shrouded busbar for increased safety.
9. Busbar design eliminates risk of 'hot spots'.
10. Earth and neutral bars can accommodate up to 25mm² cables.
11. Modular sizes and removable gland plates allow distribution boards to be stacked vertically.
12. Optional coupling kits can be used to electrically connect two distribution boards together vertically. See page 17.
13. Covers fit within enclosure dimensions allowing adjacent mounting.
14. The door can be closed when MCBs are padlocked 'ON' or 'OFF' to increase safety.
15. Unique blanking modules can be used to blank off unused outgoing ways. The blanking module is the profile of an MCB, so that it shrouds the busbar stub as well for increased safety.
16. Generous cable space is provided. Space behind the pan assembly, on type A boards, allows bottom entry/exit of cables.
17. Optional flush mounting kits provide the solution even where the mounting surface is uneven. See page 17.
18. All distribution boards have dished keyhole mounting slots for easy surface installation even when the mounting surface is uneven.
19. Optional busbar connecting blocks for type A boards allow the installer to fit DIN-rail mounted control devices onto the pan assembly providing protection and control for additional flexibility with economy and compact size.
20. Pan assemblies are fully removable to ease installation.
21. Neutral links can be removed for testing purposes.
22. An optional clean earth kit can be site installed for computer installations. See page 17.



AME11

23. The door, when locked, covers all devices and front cover screws to prevent unwanted access (not shown).
24. Doors can be site fitted with either door barrel lock kits or padlocking kits. Padlocking kits allow the user to standardise on all padlocking arrangements for an installation. See page 27.
25. All incomers (except direct connection) have positive contact indication.
26. Distribution boards can be fitted with a wide range of extension boxes including glazed door types so the user can easily identify the status of the fitted control devices. See page 26.
27. Modern styling allows the range to discreetly blend in with both industrial and commercial premises.
28. Split load, dual tariff and double pole distribution boards are available as standard. See page 16.
29. Double pole boards can be fitted with SPSN MCBs and SPSN RCBOs.
30. Top entry distribution boards available. Consult Eaton for more information.

Unique Busbar Block Kit

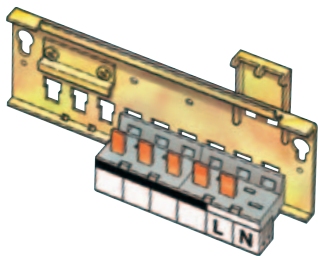
Eaton's Memshield 2 type A SPN distribution boards offer the installer unique flexibility.

By using a busbar block kit a standard type A distribution board can be adapted on site to accept DIN-rail mounting control devices as well as MCBs. The kit includes a shorter busbar, to replace the standard busbar, which simply clips to the pan assembly, plus a mounting rail for the control devices.

Use of a busbar block kit can mean that a conventional extension box for control devices is unnecessary – saving the installer time and space as well as providing the user with a neater more compact installation.

The number of ways indicated are for outgoing MCBs, remaining ways in the distribution board can be fitted with control devices.

Eg: 10 way type A board = AM10, fitted with MMBK4 will accommodate 4 x SP MCBs plus up to 6 x SP control devices.



MMBK4 fitted

The feature packed Eaton type B TPN distribution board

Standard 100/125A and 200A TPN type B distribution boards are available with a choice of 4, 6, 8, 12, 16 or 24 outgoing ways. A wide range of incomers can be fitted to allow for the flexibility needed in modern installations. They comply fully with BS5486 : Pt 12 and BSEN60439-3. Distribution boards suitable for export markets can be supplied with tin plated busbars. To order, add suffix 'TP' at the end of the distribution board list number e.g **BM81TP**

Incoming Devices, 125A MAX

Available for type B distribution boards: 100A lugs; 100A SPSN, TP, or TPSN switch-disconnectors, 125A TP switch-disconnectors, 100A TPSN RCCBs; 63A TP MCB. Please consult Eaton for details of other incoming device types.

Incoming Devices, 200A

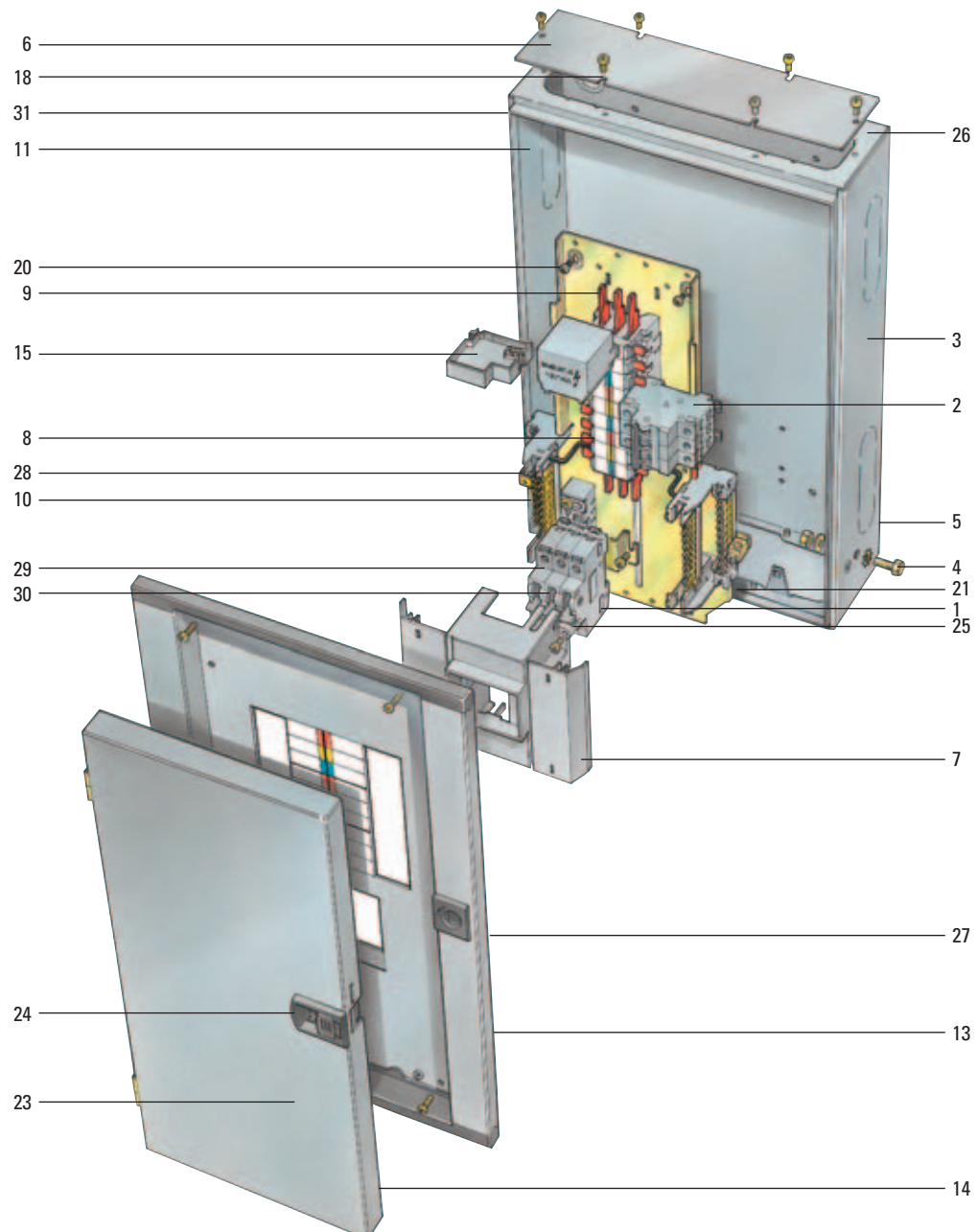
Available for type B distribution boards: 200A lugs; 200A SPSN, or TP switch-disconnectors; and any TP MCCB up to 200A. All standard 100A distribution board incomers can also be fitted.

Outgoing Devices

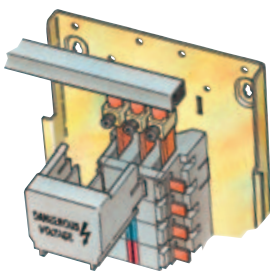
1-63A SP, DP and TP MCBs Types B, C, D, 10kA to BSEN60898; 5-45A fuse carriers, 16kA to BS1361; 1-63A SP 18mm RCBOs.

Features

Distribution boards can be stacked vertically. They can be electrically connected vertically or horizontally to give more outgoing ways by using a coupling kit (see page 22). Eaton's modular control devices can be fitted by using an extension box (see page 22). Many SPN type A distribution boards can be mounted on top of any type B distribution board.



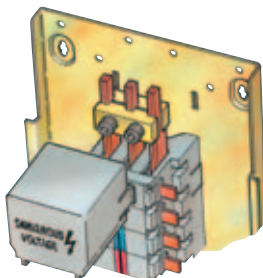
1. Easy fit, DIN-rail mounting, incoming devices simply slot into place easing installation.
2. HRC fuse modules can be fitted in place of outgoing MCBs increasing flexibility.
3. Attractive two-tone grey finish over rust protected steel enclosure for lasting durability.
4. Main earth stud allows earth to be terminated inside or outside the enclosure.
5. Type B distribution boards comply with BS5486:Pt 12 and BSEN60439-3.
6. Heavy gauge removable gland plates are provided top and bottom for ease of installation.
7. Shrouded neutral bar for increased safety.
8. Fully shrouded busbar for increased safety.
9. Busbar design eliminates risk of 'hot spots'.
10. Earth and neutral bars can accommodate up to 25mm² cables.
11. Modular sizes and removable gland plates allow distribution boards to be stacked vertically.
12. Optional coupling kits can be used to electrically connect two distribution boards together vertically. TPN boards can also be linked horizontally. See page 22.
13. Covers fit within enclosure dimensions allowing adjacent mounting.
14. The door can be closed when MCBs are padlocked 'ON' or 'OFF' to increase safety (not shown).
15. Unique blanking modules can be used to blank off unused outgoing ways. The blanking module is the profile of an MCB, so that it shrouds the busbar stab as well for increased safety. See page 26.
16. Generous cable space is provided.
17. Optional adjustable flush mounting kits provide the solution even where the mounting surface is uneven. See page 21.
18. All distribution boards have dished keyhole mounting slots for easy surface installation even when the mounting surface is uneven.
19. Pan assemblies are fully removable to ease installation.
20. Neutral links can be removed for testing purposes.
21. A clean earth kit is standard on TPN distribution boards for computer installations.
22. The door, when locked, covers all devices and front cover screws to prevent unwanted access (not shown).
23. Doors can be site fitted with either door barrel lock kits or padlocking kits. Padlocking kits allow the user to standardise on all padlocking arrangements for an installation. See page 27.
24. All incomers (except direct connection) have positive contact indication.
25. Distribution boards can be fitted with a wide range of extension boxes including glazed door types so the user can easily identify the status of the fitted control devices.
26. Modern styling allows the range to discreetly blend in with both industrial and commercial premises.
27. Dual earth and neutral bars on TPN distribution boards for ease of installation.
28. TPN and TPSN incoming device options include a 125A fuse combination switch to give a compact solution to discrimination problems at high current levels.
29. TPN incomer options allow the fitting of MCCBs from 16A up to 200A.
30. Split load, dual tariff and double pole distribution boards are available as standard.
31. Double pole boards can be fitted with SPSN MCBs and SPSN RCBOs.
32. Top entry distribution boards available. Consult Eaton for more information.



BMCKH – Horizontal coupling kit

In addition

- Two type B distribution boards can be positioned side by side and electrically inter-connected with a coupling kit.
- Any number of type B distribution boards can be vertically stacked and electrically inter-connected with a coupling kit. See page 22.



BMSPN – Single phase conversion kit

- Any TPN (type B) distribution board can be simply converted to SPN by fitting a conversion kit and SPSN switch-disconnector incoming device. See page 22.
- Consult Eaton for even more incoming options.

The feature packed Eaton MCB

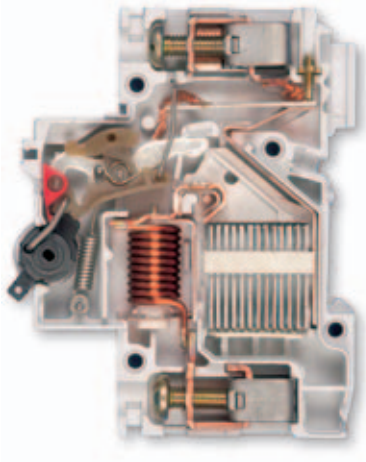
The Eaton MCB is a high performance current limiting device with the ability to disconnect short circuits of up to 15 kA. The range is available with trip types B, C, and D, for 1P, 1P+N, 2P, 3P & 4P configurations.

Technical characteristics

- Eaton MCBs can be DIN-rail mounted and connected with comb busbar.
- MCBs, RCBOs and RCCBs have positive contact indication.
- The MCBs are suitable for use with Eaton distribution boards. In addition MCBs are suitable for a wide range of panel builders applications.
- On 1P+N the switched neutral is unprotected.
- 1P+N MCBs are fitted with neutral contacts which make first and break last.
- They are suitable for use on dc systems from 24 V to 120 V.
Fault level at 24 V = 6 kA.
at 120 V = 4 kA.
- The MCBs are calibrated to 40 °C.
- MCBs can be supplied with 50 °C ambient calibration. To order insert 'X' at the end of the MCB list number eg, **MCH116X**.

Standards

- Eaton MCBs are rated at 6 kA & 10 kA Icn to IEC 60898 & IEC 60947-2, trip types B, C & D.
- Eaton MCBs are rated at 15 kA Icn to IEC 60947-2, trip types B & C.
- Eaton MCBs comply with Lloyds Register of Shipping.



1. Any 1P or 1P+N MCBs can be factory or site fitted with an RCBO pod providing hundreds of possible combinations allowing you even more flexibility.
2. Magnetic type characteristics to IEC 60898, trip types B, C, D for wide choice of applications.
3. Foolproof positive contact indication gives you the assurance of isolation function.
4. Breaking capacities of up to 10 kA (IEC 60898) and 15 kA (IEC 60947-2) allow increased installation opportunities.
5. Five different pole configurations (1P, 1P+N, 2P, 3P & 4P) and 14 current ratings (1, 2, 4, 6, 8, 10, 13, 16, 20, 25, 32, 40, 50, 63 A) for increased flexibility.
6. Trip free mechanism prevents MCBs from being held 'ON'.
7. Optional padlock for positive locking 'ON' or 'OFF'.
8. High performance current limiting design for safer installations.
9. Optional screw and terminal shields for full shrouding of MCBs.
10. Generous, wire-in, wire-out, box type terminals for cables up to 25 mm², and fork type comb busbar facilities on line and load side for panel building installations.
11. Terminals clamp cable and fork type comb busbar simultaneously.
12. Mounting on standard 35 mm DIN-rail to BS5584/EN50022 for individual and panel building installations.
13. Finger protected combination head screws to increase safety and allow easier installation.
14. Optional rear connectors to allow cables up to 50 mm² to be terminated where space is limited.
15. Thermally calibrated to 40 °C with 50 °C option to cover a wider range of ambient temperatures.



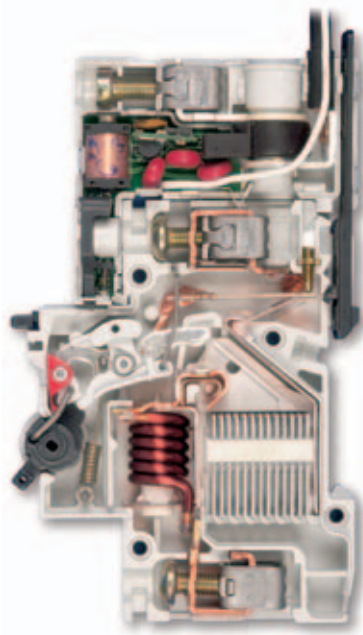
Eaton MCB with KEMA approval

The Eaton Miniature Circuit Breakers with 6 kA and 10 kA are certified by KEMA and carry the KEMA-KEUR mark. This KEMA-certification mark ensures product compliance with the total standard via third party witnessing of tests by globally recognised independent certification organisation.

KEMA is a highly recognised, independent international organisation that offers certification and inspection facilities for equipment in many industries. The KEMA-KEUR mark is the highest certification an electrical product can receive from KEMA. Eaton's IEC 60898 Miniature Circuit Breakers are KEMA tested and verified.

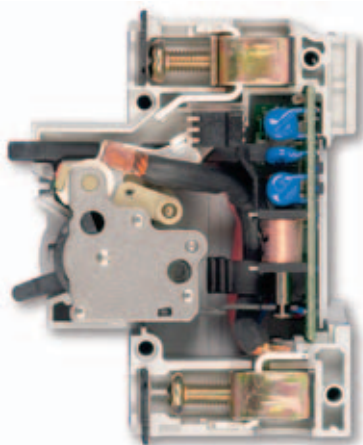
KEMA provides ongoing follow-up testing and inspections to ensure Eaton's Circuit Breakers continue to meet their exacting standards.

The feature packed Eaton RCBO



1. Earth fault sensitivity pod can be fitted to any standard 1P or 1P+N Eaton MCB.
2. Unique revolutionary design means that an RCBO within a 1P (18 mm) module can be achieved.
3. 1P module configuration allows a far greater number of devices to be fitted in a distribution board.
4. Use of the standard Eaton MCB means that there are hundreds of possible RCBO combinations providing an incredible choice.
5. Standard features of the MCB are retained but with the added flexibility of earth fault protection.
6. Eaton RCBOs are suitable for use in any Eaton distribution boards or ideally suited to panel building applications.
7. Four choices of sensitivity to meet the requirements of any installation.
8. Time delay versions allow discrimination with appropriately selected downstream RCBO.
9. The Eaton RCBO complies with IEC 61009.
10. Eaton RCBOs have positive contact indication.
11. Earth fault protection is maintained even if the neutral supply is lost.
12. Versions suitable for use on 110 V and 110 V centre tapped earth (CTE) 50/60 Hz systems.

The feature packed Eaton RCCB



1. The Eaton RCCB complies with IEC 61008.
2. Generous cable capacities of up to 50 mm².
3. All 2P units are suitable for 240 V 50/60 Hz applications.
4. All 4P units are suitable for 415 V 50/60 Hz applications and also have comb busbar facilities.
5. Eaton RCCBs are suitable for use in any Eaton distribution boards or ideally suited to panel building applications.
6. Four choices of sensitivity to meet the requirements of any installation.
7. Time delay versions allow discrimination with appropriately selected downstream RCCB.
8. Eaton RCCBs have positive contact indication.

The feature packed Eaton TVSS

Eaton's Memshield 2 Surge Protective Device has been developed specifically for application with Memshield 2 'A' Type and 'B' Type single and three phase MCB distribution boards, ensuring outstanding product performance for all sensitive, mission critical and general purpose loads. The UL1449 Second Edition and UL1283 listed devices provide high peak surge current ratings and exceptionally low real-world measured limiting (let-through) voltage values, together with outstanding durability, assuring the Memshield 2 range will provide a lifetime of effective, maintenance free protection for all electrical and electronic systems.



M2SSK1

- Active Response Network (ARN) provides optimum suppression of internal switching generated transients.
Threshold Response Network (TRN) provides maximum suppression of high energy impulse generated transients.
- This assures excellent protection of sensitive electronic, electro-mechanical and micro-processor based equipment.
- LED status indication is provided.
- Volt free relay allows remote status indication.



BMMPT200

The feature packed Eaton meter pack

Eaton's Memshield 2 meter packs provide simple integration with matched aesthetics. The **BMMPT200** employs a multi-function, DIN rail mounted meter to measure electrical parameters on LV supplies to TPN Distribution Boards. It can also be used to meter single-phase loads. The unit is supplied complete with CT's and wiring terminals. This version is suitable for 100A – 200A applications and as well as a pulsed output for kWh, the meter can be used to monitor other parameters, including line voltage and current. Electrical connection to the associated Distribution board does not occupy any of the outgoing circuits.



BMMPTC100

The BMMPTC100 is supplied as a 100A direct connection solution, not requiring CT's. Cabling is simple and the meter provides a pulsed output for kWh. The meter is an OFGEM Approved and certified unit, providing clear kWh information.



BMMPSL125 – shown with std B boards fitted

Double meterpack for mounting below two standard TPN distribution boards. Facilitates separate monitoring of "small power" and "lighting" from one main supply.



AMMP65

For single phase AM boards, a 65A meterpack provides simple integration. Amps, kW, kWh, kVar and kVarh pulsed output. MID compliant. See page 18 for single phase AM boards with factory fitted meters, including split power and lighting boards.

The feature packed Eaton command control products

Command control products complete the Eaton modular package and offer the opportunity to fulfill any application in either residential or industrial installations.

We offer following command control products:

1. Contactors
2. Pulse Relays
3. Staircase Timers
4. Time Switches



CR2011230A

1. Contactors, complying with IEC 60947-4-1

- Fulfilling any application in general heating lighting applications.
- Full range availability:
 - Ratings from 16 to 63 A.
 - Pole configurations 1P, 2P, 3P & 4P.
- Spacers available to extend lifetime (it is advised to use 1 spacer between every 2 contactors installed).



AA161RA

2. Impulse relays, complying with IEC 60669

- Reduce wiring cost by applying Eaton impulse relays.
- Significant cost advantages at any lighting control application using two or more switch locations especially where switches are remotely positioned.
- Eaton impulse switches are bi-stable.
- Relays available in 16 A (AC1) ratings, both offering NC and NO contacts for flexibility.



TE7

3. Staircase Timers

- Reduce electricity cost by decreasing the consumption of energy for lighting. The time delay relays are "OFF" delayed and especially suitable for staircase applications.
- Eaton time delay relays offer flexible time adjustment, from 30 seconds to 15 minutes.



TDW1

4. Time switches

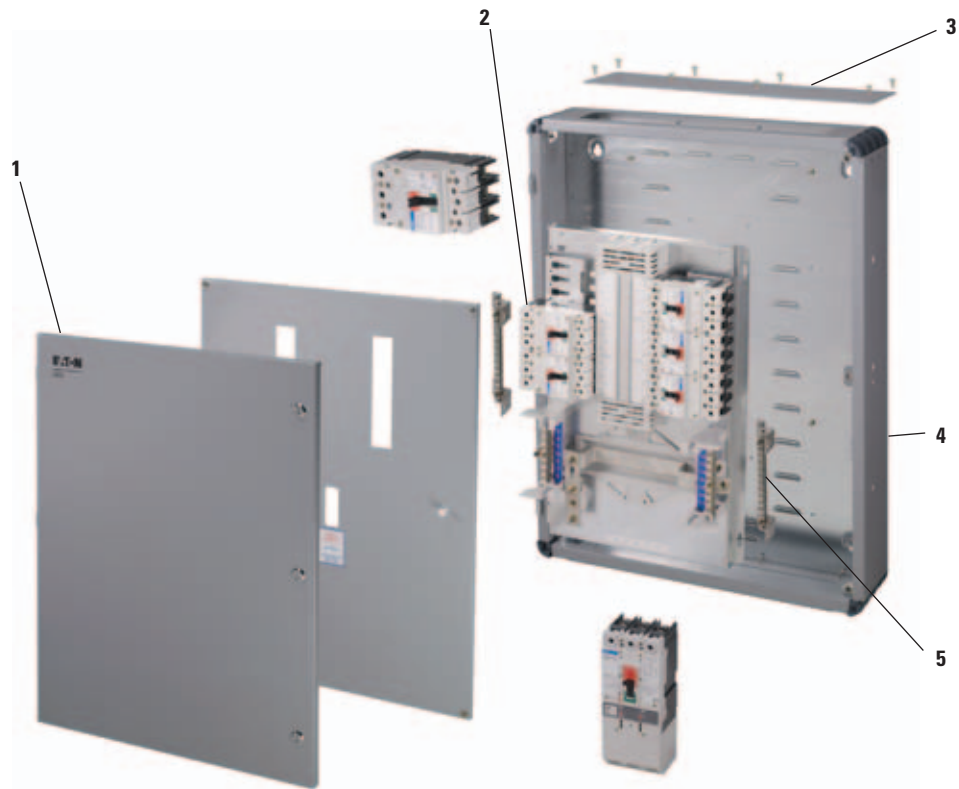
- Broad program offers right solution.
- Program comprises analogue and digital.
 - Analogue timers are available in both non quartz synchronised and quartz-versions.
 - Digital switches contain 1 and 2-channel versions. Devices are equipped with a changeover contact suitable for 16 A resistive and 2.5 A inductive loads.
- Analogue timers are flexible in use by choice of day and week programs.
- Digital timers are fully programmable in minimum programme times of one minute.
- Quartz controlled timers offer safe operation by means of a 150 hours running reserve to avoid time adjustment in case of power interruption.

The feature packed MCCB panelboard distribution system

A complete range of MCCB panelboards and pan assemblies providing all the options you need from a straightforward panelboard to a comprehensive panelboard system. The range now offers a greater choice of outgoing ways, and a variety of user or factory-fitted incoming devices are available providing more flexibility and choice to the user.



- 250A, 400A, 630A & 800A panelboard versions available.
- 3 to 18 outgoing ways.
- Outgoing MCCBs up to 400A, available in 18, 25 & 40kA.
- KEMA certified.
- IP3X construction.
- Form 3B segregation (with terminal shields fitted).
- Tin-plated busbar systems throughout the range.
- Transient voltage surge (TVSS) protection.
- Metering options.
- Reliable & safe operation assured through
- KEMA testing & certification.
- Optional side extension modules provide improved access for larger cables.
- Versatile solution, accommodating different size outgoing MCCBs to best match application needs.
- Enhanced safety through fully shrouded incoming devices, to protect against contact with live parts.
- Blanking plates finger protect unused outgoing ways.



- 1 Lift off hinged door.
- 2 Form 3B segregation (with terminal shields fitted).
- 3 Removable top and bottom gland plates.
- 4 RAL 7004 epoxy polyester finish.
- 5 Neutral and earth arrangements:
 - Split neutral & earth.
 - Additional terminal capacity provided for multiple single pole MCCB outgoers.

Factory built assemblies



- Complete factory built assemblies can be specified for individual projects, on which the factory will be pleased to advise.
- Simple derivatives include:
 - The fitment of side extension boxes, dual incomers and metering options etc.
- Through a modular Panelboard system, more custom solutions can be accommodated to include:
 - 4 pole switching options.
 - Fused combination switch options for both incomers and outgoing ways.
 - Form 4 type 2 solutions.
- For more details on these services please contact our customer support team on 08700 545 333.

TVSS kits for MCCB panelboards



A surge protective device has been developed specifically for application with MCCB panelboards ensuring outstanding product performance for all sensitive, mission critical and general purpose loads. The UL1449 second edition and UL1283 listed devices provide high peak surge current ratings and exceptionally low real-world measured limiting (let-through) voltage values, together with outstanding durability, assuring a lifetime of effective, maintenance free protection for all electrical and electronic systems.

Individually enclosed Series G MCCBs



Incorporating Eaton's high performance Series 'G' MCCBs. These ready assembled Enclosed MCCB units, including earth leakage versions offer simple and swift installation.

Standard SPN type A and DP – type A format

Standard SPN type A distribution boards are available in six sizes with a choice of 2, 4, 7, 10, 13, or 16 outgoing ways. DP versions of type A distribution boards are also available having 5 or 8 DP outgoing ways. A wide range of incomers can be fitted to allow for the flexibility needed in modern installations.

Split load and dual tariff SPN type A distribution boards are available with up to 19 outgoing ways.

They comply fully with BS5486:Pt 12 and BSEN60439-3.

- See page 17 for incoming devices.
See page 28 for outgoing devices.
See page 17 for accessories.
See page 66 for technical details.



AM7

Standard SPN, type A distribution boards

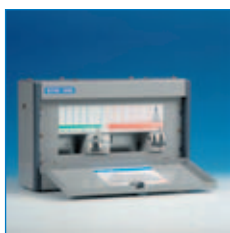
Description	Pole configuration	Outgoing ways	Quantity per carton	Eaton list number
2 way SPN type A	SPN	2	1	AM2
4 way SPN type A	SPN	4	1	AM4
7 way SPN type A	SPN	7	1	AM7
10 way SPN type A	SPN	10	1	AM10
13 way SPN type A	SPN	13	1	AM13
16 way SPN type A	SPN	16	1	AM16



AM5D

Standard DP, type A distribution boards

Description	Pole configuration	Outgoing ways	Quantity per carton	Eaton list number
5 way DP type A	DP	5	1	AM5D
8 way DP type A	DP	8	1	AM8D



AMSL64

Split load type A distribution boards

- Fitted with main 100A switch-disconnector, and 80A, 30MA RCCB.

Description	Pole configuration	Outgoing ways	RCCB protected ways	Quantity per carton	Eaton list number
10 way split load	RCCB	10	4	1	AMSL64
10 way split load	RCCB	10	7	1	AMSL37
13 way split load	RCCB	13	4	1	AMSL94
13 way split load	RCCB	13	7	1	AMSL67
13 way split load	RCCB	13	10	1	AMSL310
19 way split load	RCCB	19	10	1	AMSL910¹

¹**AMSL910** is a 2 row unit.



AMDT74

Dual tariff type A distribution boards

- Fitted with 2 100A incoming switch-disconnectors.¹

Description	Outgoing ways	Quantity per carton	Eaton list number
11 Way Dual Tariff	7 + 4	1	AMDT74
14 Way Dual Tariff	10 + 4	1	AMDT104
14 Way Dual Tariff	7 + 7	1	AMDT77

¹Please consult Eaton for other incomer types or configurations.

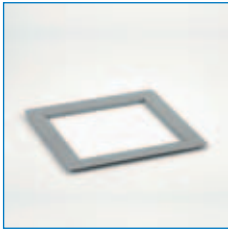


AM100HE

100A incoming devices

Description	Sensitivity	Pole	Rating	Quantity per carton	Eaton list number
Switch-disconnector	–	1P+N	100 A	1	MS1001N
RCCB, incoming device	30 mA	1P+N	100 A	1	AM100HE
RCCB, incoming device	100 mA	1P+N	100 A	1	AM100ME
RCCB, incoming device	300 mA	1P+N	100 A	1	AM100LE
RCCB, incoming device	100 mA, time delayed	1P+N	100 A	1	AM100MET
RCCB, incoming device	300 mA, time delayed	1P+N	100 A	1	AM100LET
Direct connection lugs	–	2P	100 A	1	MBT1002

Flush mounting kits, type A



AMFK4

Description	Distribution board type	Quantity per carton	Eaton list number
Flush mounting kit	AM4, BMXDC6, BMXDCG6	1	AMFK4
Flush mounting kit	AM7, BMXDC9, BMXDCG9	1	AMFK7
Flush mounting kit	AM10, AM5D	1	AMFK10
Flush mounting kit	AM13, AMSL37, AMSL64, AMDT74, BMXDC15, BMXDCG15	1	AMFK13
Flush mounting kit	AM8D, AM16, AMDT77, AMDT104, AMSL67, AMSL94, AMSL310	1	AMFK16

General accessories, type A

Description	Eaton list number
Blanking module for unused way	MBP
Blanking module for half unused way when MCCB auxiliary alarm contacts used	MABP
500ml aerosol of light grey paint RAL 7004	2AP
Door barrel lock for SPN distribution boards (supplied with 2 keys)	AMD
Door padlocking kit for SPN distribution boards	AMPL
Padlock for SPN distribution board padlock kit	PD1
Coupling kit for 2 SPN distribution boards (vertical)1	AMCK
Clean earth kit for SPN distribution boards 5 terminal	AME5
Clean earth kit for SPN distribution boards 11 terminal	AME1¹
Gland plate for AM4	MGP1
Gland plate for AM7	MGP2
Gland plate for AM10	MGP3
Gland plate for AM13	MGP4
Gland plate for AM16	MGP5
IP42 gland plate for AM4	MGP142
IP42 gland plate for AM7	MGP242
IP42 gland plate for AM10	MGP342
IP42 gland plate for AM13	MGP442
IP42 gland plate for AM16	MGP542

¹Incoming device required for each linked distribution board

Busbar block kits, type A



MMBK10

Description	Ways	Pole configuration	Quantity per carton	Eaton list number
Busbar block	4	SP	1	MMBK4
Busbar block	7	SP	1	MMBK7
Busbar block	10	SP	1	MMBK10
Busbar block	13	SP	1	MMBK13

Cable capacities, type A boards mm²

Description	Cable capacity, mm ²
Lugs (direct connection)	50
Switch-disconnector	50
RCCB	50
MCBs	25
Earth bars	25
Neutral bars	25

“New” metering solutions – type A meter pack assemblies

- Eaton’s Memshield 2 meter packs provide simple integration with matched aesthetics. For details, refer to page 12.



AMMP65



AMSL84M



AM12M

Description	Rating (A)	Outgoing ways	QPC	Eaton list number
Meterpack for SPN type A	65	–	1	AMMP65
9 way SPN type A metered board	65	9	1	AM9M²
12 way SPN type A metered board	65	12	1	AM12M²
6 + 6 way SPN type A Split metered board	65	12	1	AMSL66M^{1,2}
8 + 4 way SPN type A split metered board	65	12	1	AMSL84M^{1,2}

¹Two pulse outputs as standard.

²Add suffix ‘B’ for modbus version, e.g. **AM12MB**.



Standard TPN type B and DP, type B format

Standard 100/125A and 200A TPN type B distribution boards are available with a choice of 4, 6, 8, 12, 16 or 24 outgoing ways.

A wide range of incomers can be fitted to allow for the flexibility needed in modern installations. They comply fully with BS5486 : Pt 12 and BSEN60439-3.



See below and page 20 for incoming devices.
See page 28 for outgoing devices.
See page 22 for accessories.
See page 67 for technical details.



BM81

125A TPN type B distribution boards

Description	Pole configuration	Outgoing ways	Quantity per carton	Eaton list number
4 way TPN type B 125A	TPN	4	1	BM41
6 way TPN type B 125A	TPN	6	1	BM61
8 way TPN type B 125A	TPN	8	1	BM81
12 way TPN type B 125A	TPN	12	1	BM121
16 way TPN type B 125A	TPN	16	1	BM161
24 way TPN type B 125A	TPN	24	1	BM242



BMS1003

Incoming devices, 100/125A

- Incoming devices supplied separate to distribution board.

Description	Rating	Pole configuration	Quantity per carton	Eaton list number
Switch disconnector (isolator)	100A	TP	1	BMS1003
		SPSN	1	BMS1001N4¹
	125A	TP	1	BMS1253
Lugs (direct connection)	100A	TPSN	1	BMS1004
	100A	TP	1	BMBT1003
30mA RCCB	100A	TPSN	1	BMR30
100mA RCCB	100A	TPSN	1	BMR100
300mA RCCB	100A	TPSN	1	BMR300
300mA RCCB with time delay	100A	TPSN	1	BMR300T
Type C MCB	63A	TP	1	BMCH363
Switch disconnector feeding 100A TP AC1 contactor c/w control circuit fuse & terminal block, housed in extension box	100A	TP	1	BMCC1003

¹TPN to SPN conversion kit included (not suitable for **BMP242LWEN**).



BMCC1003



BM82

200A TPN type B distribution boards

Description	Pole configuration	Outgoing ways	Quantity per carton	Eaton list number
4 way TPN type B 200A	TPN	4	1	BM42
6 way TPN type B 200A	TPN	6	1	BM62
8 way TPN type B 200A	TPN	8	1	BM82
12 way TPN type B 200A	TPN	12	1	BM122
16 way TPN type B 200A	TPN	16	1	BM162
24 way TPN type B 200A	TPN	24	1	BM242



BMS1603

Incoming devices for 200A type B distribution boards

- Incoming devices supplied separate to distribution board.

Description	Rating	Pole configuration	Quantity per car	Eaton list number
200A TP switch-disconnector (isolator)	200A	TP	1	BMS2003
160A TP switch-disconnector (isolator)	160A	TP	1	BMS1603
200A SPSN switch-disconnector (isolator)	200A	SPSN	1	BMS2001N¹
Kit to fit TP MCCB	–	TP	1	BMIK2003²
TP lugs (direct connection)	200A	TP	1	BMBT2003

¹TPN to SPN conversion kit included (not suitable for **BMP242LWEN**).

²Select TP MCCB for use with **BMIK2003** from following table.



MFL1003

MCCBs incoming device – TP

Description	Rating	Icu	Ics	Quantity per carton	Eaton list number
MCCB	100A	25kA	100%	1	MFL1003
MCCB	125A	25kA	100%	1	MFL1253
MCCB	160A	25kA	100%	1	MFL1603
MCCB	200A	25kA	100%	1	MFL2003

A BMIK2003 is required, when fitting any TP MCCB



BMFCS8

Distribution boards, 125A TP with fuse combination switch incomer fitted

Description	Pole configuration	Ways	Incomer	Quantity per carton	Eaton list number
4 way TPN type B 125A FCS incomer	TPN	4	TP FCS	1	BMFCS4
6 way TPN type B 125A FCS incomer	TPN	6	TP FCS	1	BMFCS6
8 way TPN type B 125A FCS incomer	TPN	8	TP FCS	1	BMFCS8
12 way TPN type B 125A FCS incomer	TPN	12	TP FCS	1	BMFCS12
16 way TPN type B 125A FCS incomer	TPN	16	TP FCS	1	BMFCS16

All distribution boards with FCS type incomer are supplied with 125A fuses.



BM61D

Distribution boards, DP type B with 100A SPSN main switch-disconnector fitted

Description	Pole configuration	Ways	Incomer	Quantity per carton	Eaton list number
6 Way DP type B 100A SPSN incomer	DP	6	100A SPSN	1	BM61D
12 Way DP type B 100A SPSN incomer	DP	12	100A SPSN	1	BM121D
18 Way DP type B 100A SPSN incomer	DP	18	100A SPSN	1	BM181D
24 Way DP type B 100A SPSN incomer	DP	24	100A SPSN	1	BM241D



BMSL48

Distribution boards, split load, with 100A TP main switch-disconnector fitted

Description	Pole configuration	Ways	Incomer	Quantity per carton	Eaton list number
12 way, 8 ways RCCB protected	RCCB	12	TPN	1	BMSL48
12 way, 6 ways RCCB protected	RCCB	12	TPN	1	BMSL66
12 way, 4 ways RCCB protected	RCCB	12	TPN	1	BMSL84
16 way, 8 ways RCCB protected	RCCB	16	TPN	1	BMSL88

These boards are fitted with 100A TP main switch and 80A 30mA RCCB



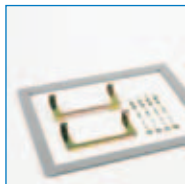
BMMPCT200



BMMPSL125 – shown with std B boards fitted



M2SSK1



BMFK2

“New” metering solutions – meter pack assemblies

Eaton’s Memshield 2 meter packs provide simple integration with matched aesthetics. Split Metering for separate small Power and Lighting has been added to the range to meet the needs of the L2 regulations introduced in England and Wales in 2006. The meters provide a pulsed output for kWh and display other useful parameters, including Line voltage and current. For details refer to page 12.

Description	Rating	Quantity per carton	Eaton list number
100A direct connection, OFGEM approved meter	100A	1	BMMPDC100
125A split load meter pack	125A	1	BMMPSL125¹
200A multi-function	200A	1	BMMPCT200
200A multi-function MID approved meter	200A	1	BMMP200MID

¹Twin meter pack with 125A main switch disconnector fitted to supply two separate type B boards (ordered separately)

TVSS modules – type A, type B distribution boards

Each TVSS module is supplied complete with the following:

- TVSS unit as detailed above
- 32A Type C MCB; SP for Type A (SPN) and TP for Type B (TPN) distribution boards
- Fittings to attach TVSS unit to distribution board
- Full instructions

Description	Quantity per carton	Eaton list number
For type A, SPN distribution boards	1	M2SSK1
For type B, TPN distribution boards	1	M2SSK3

Flush mounting kits, type B

Description	Distribution board type	Quantity per carton	Eaton list number
Flush Mounting Kit	BM41, BM61D	1	BMFK1
	BM61, BM42, BMXDCG30, BMXDC30 ¹	1	BMFK2
	BM81, BM62, BM121D	1	BMFK3
	BM82	1	BMFK4
	BM121, BM122, BM181D, BMXDC45, BMXDCG45	1	BMFK5
	BM161, BM162, BM241D	1	BMFK6
	BMSL48, BMSL66, BMSL84	1	BMFK7
	BM42 ¹	1	BMFK21
	BM62 ¹	1	BMFK22
	BM82 ¹	1	BMFK23
	BM122 ¹	1	BMFK24
	BM162 ¹	1	BMFK25

¹When fitted with a **BMFK2003**, **BMS2003**, **BMS2001N** or **BMXPC1**.

General accessories, type B

Description	Eaton list number
Blanking module for unused way	MBP
Blanking module for half unused way when MCB auxiliary alarm contacts used	MABP
500ml aerosol of light grey paint RAL 7004	2AP
IP42 gland plate for BMXDC6, BMXDCG6	MGP142
IP42 gland plate for BMXDC9, BMXDCG9	MGP242
IP42 gland plate for AM13, BMXDC15, BMXDCG15	MGP442
IP43 gland plate for BMXDC30/45, BMXDCG30/45 and all type B distribution boards	MGP442
Door barrel lock for TPN distribution boards (supplied with 2 keys)	BMDL
Door padlocking kit for TPN distribution boards	BMPL
Padlock for TPN distribution board padlock kit	PD1
100A coupling kit for 2 TPN distribution boards (vertical) ^{1,2} Not suitable for BMP242L or BMP242LVEN	BMCKV
125A coupling kit for 2 TPN distribution boards (horizontal) Not suitable for BMP242L or BMP242LVEN	BMCKH
SPN conversion kit for TPN distribution boards	BMSPN
IP4X gland plate for all TPN distribution boards	BMGP4

¹Incoming device required for each linked distribution board.

²100A vertical kits can be updated to 200A in order to connect 2 x 200A distribution boards by replacing supplied cable with cable of appropriate rating.

Extension boxes, type B

- For Type B and AM13 distribution boards.



BMXPC1

Description	Box height	Quantity per carton	Eaton list number
Cable spreader extension box	162mm	1	BMXPC1
	250mm	1	BMXPC2

Additional earth terminals, type B

- Type B, TPN distribution boards are supplied as standard with the number of earth terminals shown in the table. If required this can be increased by additional earth bars List No. **BMNE8** or **BMNE16** – see table:



BMNE8

Distribution board list number	Description	Standard number of earth terminals fitted	Max. number of earth terminals available	Number of additional earth bars required	Eaton list number
BM41	8-way terminal bar	16	28	2	BMNE8
BM42	8-way terminal bar	16	28	2	BMNE8
	16-way terminal bar	16	52	2	BMNE16
BM61	8-way terminal bar	22	28	2	BMNE8
BM62	8-way terminal bar	22	28	2	BMNE8
	16-way terminal bar	22	52	2	BMNE16
BM81	8-way terminal bar	28	28	N/A	N/A
BM82	16-way terminal bar	28	52	2	BMNE16
BM121	8-way terminal bar	40	40	2	BMNE16
BM122	16-way terminal bar	40	52	2	BMNE16
BM161	8-way terminal bar	52	52	N/A	N/A
BM162	16-way terminal bar	52	52	N/A	N/A

Cable capacities, type B boards mm²

Description	Cable capacity, mm ²
Lugs (100A) (direct connection)	50
Switch-disconnector (100A)	50
RCCB	50
Lugs (200A)	120
Switch-disconnector (125A & 160A)	70
Switch-disconnector (200A)	120
MCCB ('TP' frame type)	120
MCBs	25
Earth bars	25
Neutral bars	25

Interiors & incoming devices for single phase and three phase

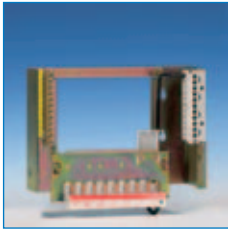
Eaton MCB pan assemblies offer a high degree of flexibility for custom applications. 1P+N types are available with 4, 7, 10, 13, and 16 ways. 3P+N types with 4, 6, 8, 12, 16 and 24 ways.

Technical characteristics

- Eaton MCB pan assemblies are suitable for inclusion in other factory built assemblies and as replacements for distribution board interiors.
- MCB pan assemblies feature fully shrouded busbars.



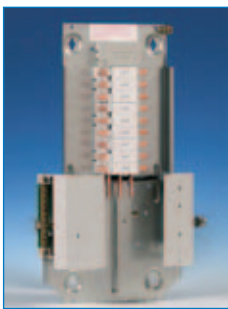
See page 68 for the technical details of Eaton MCB pan assemblies.



AMP7

MCB pan assemblies, interiors, single phase, with earth & neutral bars

Description	Pole configuration	Rating	Quantity per carton	Eaton list number
MCB pan assembly, 4-way	1P+N without incomer	100 A	1	AMP4
MCB pan assembly, 7-way	1P+N without incomer	100 A	1	AMP7
MCB pan assembly, 10-way	1P+N without incomer	100 A	1	AMP10
MCB pan assembly, 13-way	1P+N without incomer	100 A	1	AMP13
MCB pan assembly, 16-way	1P+N without incomer	100 A	1	AMP16



BMP61

MCB pan assemblies, interiors, three phase, with earth & neutral bars

Description	Pole configuration	Rating	Quantity per carton	Eaton list number
MCB pan assembly, 4-way	3P+N without incomer	125 A	1	BMP41
MCB pan assembly, 6-way	3P+N without incomer	125 A	1	BMP61
MCB pan assembly, 8-way	3P+N without incomer	125 A	1	BMP81
MCB pan assembly, 4-way	3P+N without incomer	200 A	1	BMP42
MCB pan assembly, 6-way	3P+N without incomer	200 A	1	BMP62
MCB pan assembly, 8-way	3P+N without incomer	200 A	1	BMP82
MCB pan assembly, 12-way	3P+N without incomer	200 A	1	BMP122
MCB pan assembly, 16-way	3P+N without incomer	200 A	1	BMP162
MCB pan assembly, 24-way	3P+N without incomer	200 A	1	BMP242L



BMPS62

MCB pan assemblies, interiors, three phase, without earth & neutral bars

Description	Pole configuration	Rating	Quantity per carton	Eaton list number
MCB pan assembly, 4-way	3P+N mainlugs fitted	200 A	1	BMPS42
MCB pan assembly, 6-way	3P+N mainlugs fitted	200 A	1	BMPS62
MCB pan assembly, 8-way	3P+N mainlugs fitted	200 A	1	BMPS82
MCB pan assembly, 12-way	3P+N mainlugs fitted	200 A	1	BMPS122
MCB pan assembly, 16-way	3P+N mainlugs fitted	200 A	1	BMPS162
MCB pan assembly, 24-way	3P+N mainlugs fitted	200 A	1	BMP242LWEN



AM100HE

Incoming devices for single phase pan assemblies

Incoming device supplied separately to MCB pan assemblies.

Description	Sensitivity	Pole	Rating	Quantity per carton	Eaton list number
RCCB, incoming device	30 mA	1P+N	100 A	1	AM100HE
RCCB, incoming device	100 mA	1P+N	100 A	1	AM100ME
RCCB, incoming device	300 mA	1P+N	100 A	1	AM100LE
RCCB, incoming device	100 mA, time delayed	1P+N	100 A	1	AM100MET
RCCB, incoming device	300 mA, time delayed	1P+N	100 A	1	AM100LET
Switch-disconnector		1P+N	100 A	1	MS1001N
Direct connection lugs		2P	100 A	1	MBT1002



BMS2003P

Incoming devices for three phase pan assemblies

Incoming device supplied separately to MCB pan assemblies.

Description	Pole configuration	Rating	Quantity per carton	Eaton list number
Switch-disconnector	3P	160 A	1	BMS1603P
Switch-disconnector	3P	200 A	1	BMS2003P
Direct connection lugs	3P	200 A	1	BMBT2003



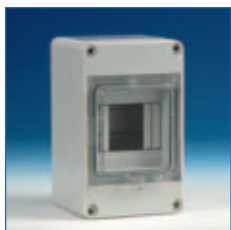
Moulded and metal

Eaton's Memshield 2 modular enclosures can be used to house Eaton protective devices and command control products. Enclosures are available to house from 2 to 45 x 18mm modules in moulded or metal construction up to IP55. Up to three type A Pan assemblies can be fitted into an enclosure.

To select a suitable enclosure, select the devices required and calculate the amount of 18mm modules required, then select the enclosure that can accommodate at least that many modules.



See page 28 for MCB protective devices
See page 41 for RCCBs
See page 70 for technical details



4QEL

Memshield 2 moulded enclosures

- Moulded enclosures **AM1SL, 4QEL, 6QEL** will accept MCBs, RCCBs and command control products but not RCBOs.
- Moulded enclosures **AM1SL, 4QEL, 6QEL** can be wire sealed but not **4EME**.
- Moulded enclosure **4EME** will accept command control products and TSPN RCCBs but not MCBs, RCBOs or DP RCC's.

Description	With door	Earth terminal provided	IP rating	Capacity in 18mm modules	Eaton list number
Moulded Enclosure	No	Yes	IP30	2	AM1SL
				4	4EME
	Yes	Yes	IP55	4	4QEL
				6	6QEL



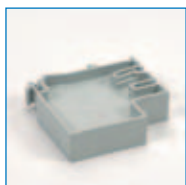
BMXDC15

Memshield 2 metal enclosures

- Metal enclosures will accept MCBs, RCCBs, RCBOs, fuse modules and command control products.
- Metal enclosures BMXDC4 to BMXDC45 are fitted with earth and neutral bars as standard.
- Metal enclosures BMXDC15 and BMXDG15 can be mounted onto type A, SPN distribution board AM13 or any type B, TPN Distribution board.

Description	With door	Earth terminal provided	IP rating	Capacity in 18mm modules	Eaton list number
Metal enclosure	Yes	Yes	IP4X	4	BMXDC4
				6	BMXDC6
				9	BMXDC9
				15	BMXDC15
				18	BMXDC18
				30	BMXDC30
				45	BMXDC45
				Yes-glazed	Yes
	9	BMXDGC9			
	15	BMXDGC15			
	18	BMXDGC18			
	30	BMXDGC30			
	45	BMXDGC45			

Enclosure accessories, blanking modules for unused ways



MBP

Description	Quantity per carton	Eaton list number
Blanking module for unused ways-metal enclosures	1	MBP

Enclosure accessories, additional earth and neutral bars



BMXE15

- For 30 & 45 way BMXDC metal enclosures.

Description	Quantity per carton	Eaton list number
Additional earth bar (15 additional holes)	1	BMXE15
Additional neutral bar (15 additional holes)	1	BMXN15

Enclosure accessories, door barrel locks



BMDL

Description	Ways	Quantity per carton	Eaton list number
Door barrel lock	4, 6, 9, 15	1	AMDL
	30 & 45	1	BMDL

Enclosure accessories, padlocking kits



AMPL

Description	Ways	Quantity per carton	Eaton list number
Padlocking kit	4, 6, 9, 15	1	AMPL
	30 & 45	1	BMPL

Enclosure accessories, padlock for AMPL/BMPL



PD1

Description	Quantity per carton	Eaton list number
Padlock for AMPL/BMPL	1	PD1

Enclosure accessories, spare "way labels"



LB10994SP

- For Type B Distribution boards only.

Description	Quantity per carton	Eaton list number
Spare way label 12 way	5	LB10994SP
Spare way label 16 way	5	LB10995SP



MCB, RCCBs and RCBOs – outgoing devices

10kA trip type B, C and D, 15kA trip type B and C, 6kA trip type B, C and D

The Eaton 10kA, 15kA & 6kA MCBs are high performance current limiting devices with the ability to disconnect short circuits. The range is available with trip types B, C, and D, for 1P, 1P+N, 2P, 3P & 4P configurations.

Eaton 10kA, 15kA & 6kA MCBs are designed & tested in accordance with IEC 60898 & IEC 60947-2. All 10kA, 15kA & 6kA Eaton MCBs are certified by KEMA.



See page 45 for accessories.

See page 72 for the technical details of 10kA, 15kA & 6kA MCBs.

■ 10kA MCB's trip type B,C and D



MBH116

MCBs – 10 kA, trip type B, 1P

- 3 to 5 x I_n (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	10 kA	1P	18 mm	12	MBH101
	2 A	B	10 kA	1P	18 mm	12	MBH102
	4 A	B	10 kA	1P	18 mm	12	MBH104
	6 A	B	10 kA	1P	18 mm	12	MBH106
	8 A	B	10 kA	1P	18 mm	12	MBH108
	10 A	B	10 kA	1P	18 mm	12	MBH110
	13 A	B	10 kA	1P	18 mm	12	MBH113
	16 A	B	10 kA	1P	18 mm	12	MBH116
	20 A	B	10 kA	1P	18 mm	12	MBH120
	25 A	B	10 kA	1P	18 mm	12	MBH125
	32 A	B	10 kA	1P	18 mm	12	MBH132
	40 A	B	10 kA	1P	18 mm	12	MBH140
	50 A	B	10 kA	1P	18 mm	12	MBH150
	63 A	B	10 kA	1P	18 mm	12	MBH163



MBH116N

MCBs – 10 kA, trip type B, 1P+N

- 3 to 5 x I_n (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	10 kA	1P+N	36 mm	6	MBH101N
	2 A	B	10 kA	1P+N	36 mm	6	MBH102N
	4 A	B	10 kA	1P+N	36 mm	6	MBH104N
	6 A	B	10 kA	1P+N	36 mm	6	MBH106N
	8 A	B	10 kA	1P+N	36 mm	6	MBH108N
	10 A	B	10 kA	1P+N	36 mm	6	MBH110N
	13 A	B	10 kA	1P+N	36 mm	6	MBH113N
	16 A	B	10 kA	1P+N	36 mm	6	MBH116N
	20 A	B	10 kA	1P+N	36 mm	6	MBH120N
	25 A	B	10 kA	1P+N	36 mm	6	MBH125N
	32 A	B	10 kA	1P+N	36 mm	6	MBH132N
	40 A	B	10 kA	1P+N	36 mm	6	MBH140N
	50 A	B	10 kA	1P+N	36 mm	6	MBH150N
	63 A	B	10 kA	1P+N	36 mm	6	MBH163N



MBH216

MCBs – 10 kA, trip type B, 2P

- 3 to 5 x In (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	10 kA	2P	36 mm	6	MBH201
	2 A	B	10 kA	2P	36 mm	6	MBH202
	4 A	B	10 kA	2P	36 mm	6	MBH204
	6 A	B	10 kA	2P	36 mm	6	MBH206
	8 A	B	10 kA	2P	36 mm	6	MBH208
	10 A	B	10 kA	2P	36 mm	6	MBH210
	13 A	B	10 kA	2P	36 mm	6	MBH213
	16 A	B	10 kA	2P	36 mm	6	MBH216
	20 A	B	10 kA	2P	36 mm	6	MBH220
	25 A	B	10 kA	2P	36 mm	6	MBH225
	32 A	B	10 kA	2P	36 mm	6	MBH232
	40 A	B	10 kA	2P	36 mm	6	MBH240
	50 A	B	10 kA	2P	36 mm	6	MBH250
	63 A	B	10 kA	2P	36 mm	6	MBH263



MBH316

MCBs – 10 kA, trip type B, 3P

- 3 to 5 x In (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	10 kA	3P	54 mm	4	MBH301
	2 A	B	10 kA	3P	54 mm	4	MBH302
	4 A	B	10 kA	3P	54 mm	4	MBH304
	6 A	B	10 kA	3P	54 mm	4	MBH306
	8 A	B	10 kA	3P	54 mm	4	MBH308
	10 A	B	10 kA	3P	54 mm	4	MBH310
	13 A	B	10 kA	3P	54 mm	4	MBH313
	16 A	B	10 kA	3P	54 mm	4	MBH316
	20 A	B	10 kA	3P	54 mm	4	MBH320
	25 A	B	10 kA	3P	54 mm	4	MBH325
	32 A	B	10 kA	3P	54 mm	4	MBH332
	40 A	B	10 kA	3P	54 mm	4	MBH340
	50 A	B	10 kA	3P	54 mm	4	MBH350
	63 A	B	10 kA	3P	54 mm	4	MBH363



MBH416

MCBs – 10 kA, trip type B, 4P

- 3 to 5 x In (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	10 kA	4P	72 mm	3	MBH401
	2 A	B	10 kA	4P	72 mm	3	MBH402
	4 A	B	10 kA	4P	72 mm	3	MBH404
	6 A	B	10 kA	4P	72 mm	3	MBH406
	8 A	B	10 kA	4P	72 mm	3	MBH408
	10 A	B	10 kA	4P	72 mm	3	MBH410
	13 A	B	10 kA	4P	72 mm	3	MBH413
	16 A	B	10 kA	4P	72 mm	3	MBH416
	20 A	B	10 kA	4P	72 mm	3	MBH420
	25 A	B	10 kA	4P	72 mm	3	MBH425
	32 A	B	10 kA	4P	72 mm	3	MBH432
	40 A	B	10 kA	4P	72 mm	3	MBH440
	50 A	B	10 kA	4P	72 mm	3	MBH450
	63 A	B	10 kA	4P	72 mm	3	MBH463

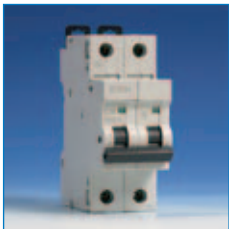


MCH116

MCBs – 10 kA, trip type C, 1P

- 5 to 10 x In (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	10 kA	1P	18 mm	12	MCH101
	2 A	C	10 kA	1P	18 mm	12	MCH102
	4 A	C	10 kA	1P	18 mm	12	MCH104
	6 A	C	10 kA	1P	18 mm	12	MCH106
	8 A	C	10 kA	1P	18 mm	12	MCH108
	10 A	C	10 kA	1P	18 mm	12	MCH110
	13 A	C	10 kA	1P	18 mm	12	MCH113
	16 A	C	10 kA	1P	18 mm	12	MCH116
	20 A	C	10 kA	1P	18 mm	12	MCH120
	25 A	C	10 kA	1P	18 mm	12	MCH125
	32 A	C	10 kA	1P	18 mm	12	MCH132
	40 A	C	10 kA	1P	18 mm	12	MCH140
	50 A	C	10 kA	1P	18 mm	12	MCH150
	63 A	C	10 kA	1P	18 mm	12	MCH163



MCH116N

MCBs – 10 kA, trip type C, 1P+N

- 5 to 10 x In (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	10 kA	1P+N	36 mm	6	MCH101N
	2 A	C	10 kA	1P+N	36 mm	6	MCH102N
	4 A	C	10 kA	1P+N	36 mm	6	MCH104N
	6 A	C	10 kA	1P+N	36 mm	6	MCH106N
	8 A	C	10 kA	1P+N	36 mm	6	MCH108N
	10 A	C	10 kA	1P+N	36 mm	6	MCH110N
	13 A	C	10 kA	1P+N	36 mm	6	MCH113N
	16 A	C	10 kA	1P+N	36 mm	6	MCH116N
	20 A	C	10 kA	1P+N	36 mm	6	MCH120N
	25 A	C	10 kA	1P+N	36 mm	6	MCH125N
	32 A	C	10 kA	1P+N	36 mm	6	MCH132N
	40 A	C	10 kA	1P+N	36 mm	6	MCH140N
	50 A	C	10 kA	1P+N	36 mm	6	MCH150N
	63 A	C	10 kA	1P+N	36 mm	6	MCH163N



MCH216

MCBs – 10 kA, trip type C, 2P

- 5 to 10 x In (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	10 kA	2P	36 mm	6	MCH201
	2 A	C	10 kA	2P	36 mm	6	MCH202
	4 A	C	10 kA	2P	36 mm	6	MCH204
	6 A	C	10 kA	2P	36 mm	6	MCH206
	8 A	C	10 kA	2P	36 mm	6	MCH208
	10 A	C	10 kA	2P	36 mm	6	MCH210
	13 A	C	10 kA	2P	36 mm	6	MCH213
	16 A	C	10 kA	2P	36 mm	6	MCH216
	20 A	C	10 kA	2P	36 mm	6	MCH220
	25 A	C	10 kA	2P	36 mm	6	MCH225
	32 A	C	10 kA	2P	36 mm	6	MCH232
	40 A	C	10 kA	2P	36 mm	6	MCH240
	50 A	C	10 kA	2P	36 mm	6	MCH250
	63 A	C	10 kA	2P	36 mm	6	MCH263



MCH316

MCBs – 10 kA, trip type C, 3P

- 5 to 10 x I_n (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	10 kA	3P	54 mm	4	MCH301
	2 A	C	10 kA	3P	54 mm	4	MCH302
	4 A	C	10 kA	3P	54 mm	4	MCH304
	6 A	C	10 kA	3P	54 mm	4	MCH306
	8 A	C	10 kA	3P	54 mm	4	MCH308
	10 A	C	10 kA	3P	54 mm	4	MCH310
	13 A	C	10 kA	3P	54 mm	4	MCH313
	16 A	C	10 kA	3P	54 mm	4	MCH316
	20 A	C	10 kA	3P	54 mm	4	MCH320
	25 A	C	10 kA	3P	54 mm	4	MCH325
	32 A	C	10 kA	3P	54 mm	4	MCH332
	40 A	C	10 kA	3P	54 mm	4	MCH340
	50 A	C	10 kA	3P	54 mm	4	MCH350
	63 A	C	10 kA	3P	54 mm	4	MCH363



MCH416

MCBs – 10 kA, trip type C, 4P

- 5 to 10 x I_n (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	10 kA	4P	72 mm	3	MCH401
	2 A	C	10 kA	4P	72 mm	3	MCH402
	4 A	C	10 kA	4P	72 mm	3	MCH404
	6 A	C	10 kA	4P	72 mm	3	MCH406
	8 A	C	10 kA	4P	72 mm	3	MCH408
	10 A	C	10 kA	4P	72 mm	3	MCH410
	13 A	C	10 kA	4P	72 mm	3	MCH413
	16 A	C	10 kA	4P	72 mm	3	MCH416
	20 A	C	10 kA	4P	72 mm	3	MCH420
	25 A	C	10 kA	4P	72 mm	3	MCH425
	32 A	C	10 kA	4P	72 mm	3	MCH432
	40 A	C	10 kA	4P	72 mm	3	MCH440
	50 A	C	10 kA	4P	72 mm	3	MCH450
	63 A	C	10 kA	4P	72 mm	3	MCH463



MDH116

MCBs – 10 kA, trip type D, 1P

- 10 to 20 x I_n (trip type D).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	10 kA	1P	18 mm	12	MDH101
	2 A	D	10 kA	1P	18 mm	12	MDH102
	4 A	D	10 kA	1P	18 mm	12	MDH104
	6 A	D	10 kA	1P	18 mm	12	MDH106
	8 A	D	10 kA	1P	18 mm	12	MDH108
	10 A	D	10 kA	1P	18 mm	12	MDH110
	13 A	D	10 kA	1P	18 mm	12	MDH113
	16 A	D	10 kA	1P	18 mm	12	MDH116
	20 A	D	10 kA	1P	18 mm	12	MDH120
	25 A	D	10 kA	1P	18 mm	12	MDH125
32 A	D	10 kA	1P	18 mm	12	MDH132	



MDH116N

MCBs – 10 kA, trip type D, 1P+N

- 10 to 20 x In (trip type D).
- 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	10 kA	1P+N	36 mm	6	MDH101N
	2 A	D	10 kA	1P+N	36 mm	6	MDH102N
	4 A	D	10 kA	1P+N	36 mm	6	MDH104N
	6 A	D	10 kA	1P+N	36 mm	6	MDH106N
	8 A	D	10 kA	1P+N	36 mm	6	MDH108N
	10 A	D	10 kA	1P+N	36 mm	6	MDH110N
	13 A	D	10 kA	1P+N	36 mm	6	MDH113N
	16 A	D	10 kA	1P+N	36 mm	6	MDH116N
	20 A	D	10 kA	1P+N	36 mm	6	MDH120N
	25 A	D	10 kA	1P+N	36 mm	6	MDH125N
	32 A	D	10 kA	1P+N	36 mm	6	MDH132N



MDH216

MCBs – 10 kA, trip type D, 2P

- 10 to 20 x In (trip type D).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	10 kA	2P	36 mm	6	MDH201
	2 A	D	10 kA	2P	36 mm	6	MDH202
	4 A	D	10 kA	2P	36 mm	6	MDH204
	6 A	D	10 kA	2P	36 mm	6	MDH206
	8 A	D	10 kA	2P	36 mm	6	MDH208
	10 A	D	10 kA	2P	36 mm	6	MDH210
	13 A	D	10 kA	2P	36 mm	6	MDH213
	16 A	D	10 kA	2P	36 mm	6	MDH216
	20 A	D	10 kA	2P	36 mm	6	MDH220
	25 A	D	10 kA	2P	36 mm	6	MDH225
	32 A	D	10 kA	2P	36 mm	6	MDH232



MDH316

MCBs – 10 kA, trip type D, 3P

- 10 to 20 x In (trip type D).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	10 kA	3P	54 mm	4	MDH301
	2 A	D	10 kA	3P	54 mm	4	MDH302
	4 A	D	10 kA	3P	54 mm	4	MDH304
	6 A	D	10 kA	3P	54 mm	4	MDH306
	8 A	D	10 kA	3P	54 mm	4	MDH308
	10 A	D	10 kA	3P	54 mm	4	MDH310
	13 A	D	10 kA	3P	54 mm	4	MDH313
	16 A	D	10 kA	3P	54 mm	4	MDH316
	20 A	D	10 kA	3P	54 mm	4	MDH320
	25 A	D	10 kA	3P	54 mm	4	MDH325
	32 A	D	10 kA	3P	54 mm	4	MDH332



MDH416

MCBs – 10 kA, trip type D, 4P

- 10 to 20 x In (trip type D).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	10 kA	4P	72 mm	3	MDH401
	2 A	D	10 kA	4P	72 mm	3	MDH402
	4 A	D	10 kA	4P	72 mm	3	MDH404
	6 A	D	10 kA	4P	72 mm	3	MDH406
	8 A	D	10 kA	4P	72 mm	3	MDH408
	10 A	D	10 kA	4P	72 mm	3	MDH410
	13 A	D	10 kA	4P	72 mm	3	MDH413
	16 A	D	10 kA	4P	72 mm	3	MDH416
	20 A	D	10 kA	4P	72 mm	3	MDH420
	25 A	D	10 kA	4P	72 mm	3	MDH425
	32 A	D	10 kA	4P	72 mm	3	MDH432

■ 15kA MCB's trip type B and C



MBV116

MCBs – 15 kA, trip type B, 1P

- 3 to 5 x In (trip type B).
- Icu rating to IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	6 A	B	15 kA	1P	18 mm	12	MBV106
	10 A	B	15 kA	1P	18 mm	12	MBV110
	16 A	B	15 kA	1P	18 mm	12	MBV116
	20 A	B	15 kA	1P	18 mm	12	MBV120
	25 A	B	15 kA	1P	18 mm	12	MBV125
	32 A	B	15 kA	1P	18 mm	12	MBV132
	40 A	B	15 kA	1P	18 mm	12	MBV140
	50 A	B	15 kA	1P	18 mm	12	MBV150
	63 A	B	15 kA	1P	18 mm	12	MBV163



MBV216

MCBs – 15 kA, trip type B, 2P

- 3 to 5 x In (trip type B).
- Icu rating to IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	6 A	B	15 kA	2P	36 mm	6	MBV206
	10 A	B	15 kA	2P	36 mm	6	MBV210
	16 A	B	15 kA	2P	36 mm	6	MBV216
	20 A	B	15 kA	2P	36 mm	6	MBV220
	25 A	B	15 kA	2P	36 mm	6	MBV225
	32 A	B	15 kA	2P	36 mm	6	MBV232
	40 A	B	15 kA	2P	36 mm	6	MBV240
	50 A	B	15 kA	2P	36 mm	6	MBV250
	63 A	B	15 kA	2P	36 mm	6	MBV263



MBV316

MCBs – 15 kA, trip type B, 3P

- 3 to 5 x I_n (trip type B).
- Icu rating to IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	6 A	B	15 kA	3P	54 mm	4	MBV306
	10 A	B	15 kA	3P	54 mm	4	MBV310
	16 A	B	15 kA	3P	54 mm	4	MBV316
	20 A	B	15 kA	3P	54 mm	4	MBV320
	25 A	B	15 kA	3P	54 mm	4	MBV325
	32 A	B	15 kA	3P	54 mm	4	MBV332
	40 A	B	15 kA	3P	54 mm	4	MBV340
	50 A	B	15 kA	3P	54 mm	4	MBV350
	63 A	B	15 kA	3P	54 mm	4	MBV363



MCV116

MCBs – 15 kA, trip type C, 1P

- 5 to 10 x I_n (trip type C).
- Icu rating to IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	6 A	C	15 kA	1P	18 mm	12	MCV106
	10 A	C	15 kA	1P	18 mm	12	MCV110
	16 A	C	15 kA	1P	18 mm	12	MCV116
	20 A	C	15 kA	1P	18 mm	12	MCV120
	25 A	C	15 kA	1P	18 mm	12	MCV125
	32 A	C	15 kA	1P	18 mm	12	MCV132
	40 A	C	15 kA	1P	18 mm	12	MCV140
	50 A	C	15 kA	1P	18 mm	12	MCV150
		63 A	C	15 kA	1P	18 mm	12

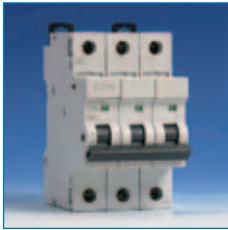


MCV216

MCBs – 15 kA, trip type C, 2P

- 5 to 10 x I_n (trip type C).
- Icu rating to IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	6 A	C	15 kA	2P	36 mm	6	MCV206
	10 A	C	15 kA	2P	36 mm	6	MCV210
	16 A	C	15 kA	2P	36 mm	6	MCV216
	20 A	C	15 kA	2P	36 mm	6	MCV220
	25 A	C	15 kA	2P	36 mm	6	MCV225
	32 A	C	15 kA	2P	36 mm	6	MCV232
	40 A	C	15 kA	2P	36 mm	6	MCV240
	50 A	C	15 kA	2P	36 mm	6	MCV250
		63 A	C	15 kA	2P	36 mm	6



MCV316

MCBs – 15 kA, trip type C, 3P

- 5 to 10 x I_n (trip type C).
- Icu rating to IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	6 A	C	15 kA	3P	54 mm	4	MCV306
	10 A	C	15 kA	3P	54 mm	4	MCV310
	16 A	C	15 kA	3P	54 mm	4	MCV316
	20 A	C	15 kA	3P	54 mm	4	MCV320
	25 A	C	15 kA	3P	54 mm	4	MCV325
	32 A	C	15 kA	3P	54 mm	4	MCV332
	40 A	C	15 kA	3P	54 mm	4	MCV340
	50 A	C	15 kA	3P	54 mm	4	MCV350
	63 A	C	15 kA	3P	54 mm	4	MCV363

■ 6kA MCB's trip type B,C and D



MBL116

MCBs – 6 kA, trip type B, 1P

- 3 to 5 x I_n (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	6 kA	1P	18 mm	12	MBL101
	2 A	B	6 kA	1P	18 mm	12	MBL102
	4 A	B	6 kA	1P	18 mm	12	MBL104
	6 A	B	6 kA	1P	18 mm	12	MBL106
	8 A	B	6 kA	1P	18 mm	12	MBL108
	10 A	B	6 kA	1P	18 mm	12	MBL110
	13 A	B	6 kA	1P	18 mm	12	MBL113
	16 A	B	6 kA	1P	18 mm	12	MBL116
	20 A	B	6 kA	1P	18 mm	12	MBL120
	25 A	B	6 kA	1P	18 mm	12	MBL125
	32 A	B	6 kA	1P	18 mm	12	MBL132
	40 A	B	6 kA	1P	18 mm	12	MBL140
	50 A	B	6 kA	1P	18 mm	12	MBL150
	63 A	B	6 kA	1P	18 mm	12	MBL163



MBL116N

MCBs – 6 kA, trip type B, 1P+N

- 3 to 5 x I_n (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	6 kA	1P+N	36 mm	6	MBL101N
	2 A	B	6 kA	1P+N	36 mm	6	MBL102N
	4 A	B	6 kA	1P+N	36 mm	6	MBL104N
	6 A	B	6 kA	1P+N	36 mm	6	MBL106N
	8 A	B	6 kA	1P+N	36 mm	6	MBL108N
	10 A	B	6 kA	1P+N	36 mm	6	MBL110N
	13 A	B	6 kA	1P+N	36 mm	6	MBL113N
	16 A	B	6 kA	1P+N	36 mm	6	MBL116N
	20 A	B	6 kA	1P+N	36 mm	6	MBL120N
	25 A	B	6 kA	1P+N	36 mm	6	MBL125N
	32 A	B	6 kA	1P+N	36 mm	6	MBL132N
	40 A	B	6 kA	1P+N	36 mm	6	MBL140N
	50 A	B	6 kA	1P+N	36 mm	6	MBL150N
	63 A	B	6 kA	1P+N	36 mm	6	MBL163N

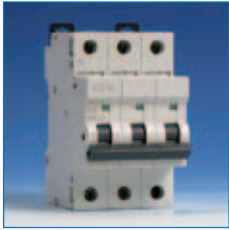


MBL216

MCBs – 6 kA, trip type B, 2P

- 3 to 5 x In (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	6 kA	2P	36 mm	6	MBL201
	2 A	B	6 kA	2P	36 mm	6	MBL202
	4 A	B	6 kA	2P	36 mm	6	MBL204
	6 A	B	6 kA	2P	36 mm	6	MBL206
	8 A	B	6 kA	2P	36 mm	6	MBL208
	10 A	B	6 kA	2P	36 mm	6	MBL210
	13 A	B	6 kA	2P	36 mm	6	MBL213
	16 A	B	6 kA	2P	36 mm	6	MBL216
	20 A	B	6 kA	2P	36 mm	6	MBL220
	25 A	B	6 kA	2P	36 mm	6	MBL225
	32 A	B	6 kA	2P	36 mm	6	MBL232
	40 A	B	6 kA	2P	36 mm	6	MBL240
	50 A	B	6 kA	2P	36 mm	6	MBL250
	63 A	B	6 kA	2P	36 mm	6	MBL263



MBL316

MCBs – 6 kA, trip type B, 3P

- 3 to 5 x In (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	6 kA	3P	54 mm	4	MBL301
	2 A	B	6 kA	3P	54 mm	4	MBL302
	4 A	B	6 kA	3P	54 mm	4	MBL304
	6 A	B	6 kA	3P	54 mm	4	MBL306
	8 A	B	6 kA	3P	54 mm	4	MBL308
	10 A	B	6 kA	3P	54 mm	4	MBL310
	13 A	B	6 kA	3P	54 mm	4	MBL313
	16 A	B	6 kA	3P	54 mm	4	MBL316
	20 A	B	6 kA	3P	54 mm	4	MBL320
	25 A	B	6 kA	3P	54 mm	4	MBL325
	32 A	B	6 kA	3P	54 mm	4	MBL332
	40 A	B	6 kA	3P	54 mm	4	MBL340
	50 A	B	6 kA	3P	54 mm	4	MBL350
	63 A	B	6 kA	3P	54 mm	4	MBL363



MBL416

MCBs – 6 kA, trip type B, 4P

- 3 to 5 x In (trip type B).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	B	6 kA	4P	72 mm	3	MBL401
	2 A	B	6 kA	4P	72 mm	3	MBL402
	4 A	B	6 kA	4P	72 mm	3	MBL404
	6 A	B	6 kA	4P	72 mm	3	MBL406
	8 A	B	6 kA	4P	72 mm	3	MBL408
	10 A	B	6 kA	4P	72 mm	3	MBL410
	13 A	B	6 kA	4P	72 mm	3	MBL413
	16 A	B	6 kA	4P	72 mm	3	MBL416
	20 A	B	6 kA	4P	72 mm	3	MBL420
	25 A	B	6 kA	4P	72 mm	3	MBL425
	32 A	B	6 kA	4P	72 mm	3	MBL432
	40 A	B	6 kA	4P	72 mm	3	MBL440
	50 A	B	6 kA	4P	72 mm	3	MBL450
	63 A	B	6 kA	4P	72 mm	3	MBL463

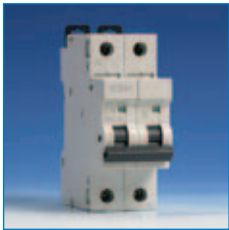


MCL116

MCBs – 6 kA, trip type C, 1P

- 5 to 10 x I_n (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	6 kA	1P	18 mm	12	MCL101
	2 A	C	6 kA	1P	18 mm	12	MCL102
	4 A	C	6 kA	1P	18 mm	12	MCL104
	6 A	C	6 kA	1P	18 mm	12	MCL106
	8 A	C	6 kA	1P	18 mm	12	MCL108
	10 A	C	6 kA	1P	18 mm	12	MCL110
	13 A	C	6 kA	1P	18 mm	12	MCL113
	16 A	C	6 kA	1P	18 mm	12	MCL116
	20 A	C	6 kA	1P	18 mm	12	MCL120
	25 A	C	6 kA	1P	18 mm	12	MCL125
	32 A	C	6 kA	1P	18 mm	12	MCL132
	40 A	C	6 kA	1P	18 mm	12	MCL140
	50 A	C	6 kA	1P	18 mm	12	MCL150
	63 A	C	6 kA	1P	18 mm	12	MCL163



MCL116N

MCBs – 6 kA, trip type C, 1P+N

- 5 to 10 x I_n (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	6 kA	1P+N	36 mm	6	MCL101N
	2 A	C	6 kA	1P+N	36 mm	6	MCL102N
	4 A	C	6 kA	1P+N	36 mm	6	MCL104N
	6 A	C	6 kA	1P+N	36 mm	6	MCL106N
	8 A	C	6 kA	1P+N	36 mm	6	MCL108N
	10 A	C	6 kA	1P+N	36 mm	6	MCL110N
	13 A	C	6 kA	1P+N	36 mm	6	MCL113N
	16 A	C	6 kA	1P+N	36 mm	6	MCL116N
	20 A	C	6 kA	1P+N	36 mm	6	MCL120N
	25 A	C	6 kA	1P+N	36 mm	6	MCL125N
	32 A	C	6 kA	1P+N	36 mm	6	MCL132N
	40 A	C	6 kA	1P+N	36 mm	6	MCL140N
	50 A	C	6 kA	1P+N	36 mm	6	MCL150N
	63 A	C	6 kA	1P+N	36 mm	6	MCL163N

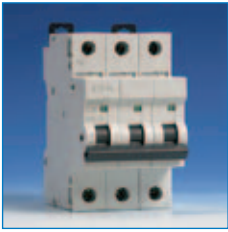


MCL216

MCBs – 6 kA, trip type C, 2P

- 5 to 10 x I_n (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	6 kA	2P	36 mm	6	MCL201
	2 A	C	6 kA	2P	36 mm	6	MCL202
	4 A	C	6 kA	2P	36 mm	6	MCL204
	6 A	C	6 kA	2P	36 mm	6	MCL206
	8 A	C	6 kA	2P	36 mm	6	MCL208
	10 A	C	6 kA	2P	36 mm	6	MCL210
	13 A	C	6 kA	2P	36 mm	6	MCL213
	16 A	C	6 kA	2P	36 mm	6	MCL216
	20 A	C	6 kA	2P	36 mm	6	MCL220
	25 A	C	6 kA	2P	36 mm	6	MCL225
	32 A	C	6 kA	2P	36 mm	6	MCL232
	40 A	C	6 kA	2P	36 mm	6	MCL240
	50 A	C	6 kA	2P	36 mm	6	MCL250
	63 A	C	6 kA	2P	36 mm	6	MCL263



MCL316

MCBs – 6 kA, trip type B, 3P

- 5 to 10 x In (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	6 kA	2P	54 mm	4	MCL301
	2 A	C	6 kA	3P	54 mm	4	MCL302
	4 A	C	6 kA	3P	54 mm	4	MCL304
	6 A	C	6 kA	3P	54 mm	4	MCL306
	8 A	C	6 kA	3P	54 mm	4	MCL308
	10 A	C	6 kA	3P	54 mm	4	MCL310
	13 A	C	6 kA	3P	54 mm	4	MCL313
	16 A	C	6 kA	3P	54 mm	4	MCL316
	20 A	C	6 kA	3P	54 mm	4	MCL320
	25 A	C	6 kA	3P	54 mm	4	MCL325
	32 A	C	6 kA	3P	54 mm	4	MCL332
	40 A	C	6 kA	3P	54 mm	4	MCL340
	50 A	C	6 kA	3P	54 mm	4	MCL350
	63 A	C	6 kA	3P	54 mm	4	MCL363



MCL416

MCBs – 6 kA, trip type C, 4P

- 5 to 10 x In (trip type C).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	C	6 kA	4P	72 mm	3	MCL401
	2 A	C	6 kA	4P	72 mm	3	MCL402
	4 A	C	6 kA	4P	72 mm	3	MCL404
	6 A	C	6 kA	4P	72 mm	3	MCL406
	8 A	C	6 kA	4P	72 mm	3	MCL408
	10 A	C	6 kA	4P	72 mm	3	MCL410
	13 A	C	6 kA	4P	72 mm	3	MCL413
	16 A	C	6 kA	4P	72 mm	3	MCL416
	20 A	C	6 kA	4P	72 mm	3	MCL420
	25 A	C	6 kA	4P	72 mm	3	MCL425
	32 A	C	6 kA	4P	72 mm	3	MCL432
	40 A	C	6 kA	4P	72 mm	3	MCL440
	50 A	C	6 kA	4P	72 mm	3	MCL450
	63 A	C	6 kA	4P	72 mm	3	MCL463



MDL116

MCBs – 6 kA, trip type D, 1P

- 10 to 20 x In (trip type D).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	6 kA	1P	18 mm	12	MDL101
	2 A	D	6 kA	1P	18 mm	12	MDL102
	4 A	D	6 kA	1P	18 mm	12	MDL104
	6 A	D	6 kA	1P	18 mm	12	MDL106
	8 A	D	6 kA	1P	18 mm	12	MDL108
	10 A	D	6 kA	1P	18 mm	12	MDL110
	13 A	D	6 kA	1P	18 mm	12	MDL113
	16 A	D	6 kA	1P	18 mm	12	MDL116
	20 A	D	6 kA	1P	18 mm	12	MDL120
	25 A	D	6 kA	1P	18 mm	12	MDL125
	32 A	D	6 kA	1P	18 mm	12	MDL132
	40 A	D	6 kA	1P	18 mm	12	MDL140
	50 A	D	6 kA	1P	18 mm	12	MDL150
	63 A	D	6 kA	1P	18 mm	12	MDL163

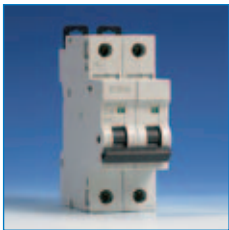


MDL116N

MCBs – 6 kA, trip type D, 1P+N

- 10 to 20 x In (trip type D).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	6 kA	1P+N	36 mm	6	MDL101N
	2 A	D	6 kA	1P+N	36 mm	6	MDL102N
	4 A	D	6 kA	1P+N	36 mm	6	MDL104N
	6 A	D	6 kA	1P+N	36 mm	6	MDL106N
	8 A	D	6 kA	1P+N	36 mm	6	MDL108N
	10 A	D	6 kA	1P+N	36 mm	6	MDL110N
	13 A	D	6 kA	1P+N	36 mm	6	MDL113N
	16 A	D	6 kA	1P+N	36 mm	6	MDL116N
	20 A	D	6 kA	1P+N	36 mm	6	MDL120N
	25 A	D	6 kA	1P+N	36 mm	6	MDL125N
	32 A	D	6 kA	1P+N	36 mm	6	MDL132N
	40 A	D	6 kA	1P+N	36 mm	6	MDL140N
	50 A	D	6 kA	1P+N	36 mm	6	MDL150N
	63 A	D	6 kA	1P+N	36 mm	6	MDL163N

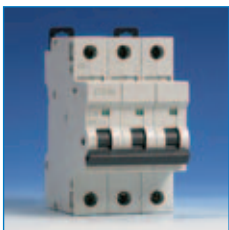


MDL216

MCBs – 6 kA, trip type D, 2P

- 10 to 20 x In (trip type D).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	6 kA	2P	36 mm	6	MDL201
	2 A	D	6 kA	2P	36 mm	6	MDL202
	4 A	D	6 kA	2P	36 mm	6	MDL204
	6 A	D	6 kA	2P	36 mm	6	MDL206
	8 A	D	6 kA	2P	36 mm	6	MDL208
	10 A	D	6 kA	2P	36 mm	6	MDL210
	13 A	D	6 kA	2P	36 mm	6	MDL213
	16 A	D	6 kA	2P	36 mm	6	MDL216
	20 A	D	6 kA	2P	36 mm	6	MDL220
	25 A	D	6 kA	2P	36 mm	6	MDL225
	32 A	D	6 kA	2P	36 mm	6	MDL232
	40 A	D	6 kA	2P	36 mm	6	MDL240
	50 A	D	6 kA	2P	36 mm	6	MDL250
	63 A	D	6 kA	2P	36 mm	6	MDL263



MDL316

MCBs – 6 kA, trip type D, 3P

- 10 to 20 x In (trip type D).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	6 kA	3P	54 mm	4	MDL301
	2 A	D	6 kA	3P	54 mm	4	MDL302
	4 A	D	6 kA	3P	54 mm	4	MDL304
	6 A	D	6 kA	3P	54 mm	4	MDL306
	8 A	D	6 kA	3P	54 mm	4	MDL308
	10 A	D	6 kA	3P	54 mm	4	MDL310
	13 A	D	6 kA	3P	54 mm	4	MDL313
	16 A	D	6 kA	3P	54 mm	4	MDL316
	20 A	D	6 kA	3P	54 mm	4	MDL320
	25 A	D	6 kA	3P	54 mm	4	MDL325
	32 A	D	6 kA	3P	54 mm	4	MDL332
	40 A	D	6 kA	3P	54 mm	4	MDL340
	50 A	D	6 kA	3P	54 mm	4	MDL350
	63 A	D	6 kA	3P	54 mm	4	MDL363



MDL416

MCBs – 6 kA, trip type D, 4P

- 10 to 20 x In (trip type D).
- IEC 60898 & IEC 60947-2.

Description	Rating	Trip type	Short circuit rating	Pole configuration	Width	Quantity per carton	Eaton list number
MCB	1 A	D	6 kA	4P	72 mm	3	MDL401
	2 A	D	6 kA	4P	72 mm	3	MDL402
	4 A	D	6 kA	4P	72 mm	3	MDL404
	6 A	D	6 kA	4P	72 mm	3	MDL406
	8 A	D	6 kA	4P	72 mm	3	MDL408
	10 A	D	6 kA	4P	72 mm	3	MDL410
	13 A	D	6 kA	4P	72 mm	3	MDL413
	16 A	D	6 kA	4P	72 mm	3	MDL416
	20 A	D	6 kA	4P	72 mm	3	MDL420
	25 A	D	6 kA	4P	72 mm	3	MDL425
	32 A	D	6 kA	4P	72 mm	3	MDL432
	40 A	D	6 kA	4P	72 mm	3	MDL440
	50 A	D	6 kA	4P	72 mm	3	MDL450
	63 A	D	6 kA	4P	72 mm	3	MDL463

Residual Current Operated Circuit Breaker without integral overload protection.

Technical characteristics

- The SPSN unit is capable of sensing DC components in the supply, in accordance with IEC 61008.
- All SPSN units are suitable for 240 V 50/60 Hz applications.
- All TPSN units are suitable for 415 V 50/60 Hz applications and also have comb busbar facilities.
- To guarantee discrimination with downstream residual current devices any upstream residual current device should be time delayed. The time delay period is between 150 – 400 ms.
- Under loss of supply neutral conditions the residual current element of the SPSN will continue to provide earth leakage protection. With these conditions and upon detection of an earth leakage current the RCCB will operate within its normal characteristics.
- High voltage suppression is incorporated and the unit is therefore ideal for use with supply equipment susceptible to such mains borne transients.
- The Eaton RCCB units comply with IEC 61008.

See page 74 for technical details .



AM100HE

RCCBs – SPSN

- Residual current operated circuit breaker without integral overload protection.

Description	Rating	Sensitivity	Quantity per carton	Eaton list number
RCCB	16 A	10 mA	1	AM16VHE
	25 A	30 mA	1	AM25HE
	40 A	30 mA	1	AM40HE
	63 A	30 mA	1	AM63HE
	80 A	30 mA	1	AM80HE
	100 A	30 mA	1	AM100HE
	25 A	100 mA	1	AM25ME
	40 A	100 mA	1	AM40ME
	63 A	100 mA	1	AM63ME
	80 A	100 mA	1	AM80ME
	100 A	100 mA	1	AM100ME
	25 A	300 mA	1	AM25LE
	40 A	300 mA	1	AM40LE
	63 A	300 mA	1	AM63LE
	80 A	300 mA	1	AM80LE
	100 A	300 mA	1	AM100LE
	100 A	100 mA, time delayed	1	AM100MET
	100 A	300 mA, time delayed	1	AM100LET



AM1004M

RCCBs – TPSN

- Residual current operated circuit breaker without integral overload protection.
- Accepts 35mm² cable

Description	Rating	Sensitivity	QPC	Eaton list number
RCCB	40 A	30 mA	1	AM404H
	63 A	30 mA	1	AM634H
	80 A	30 mA	1	AM804H
	100 A	30 mA	1	AM1004H
	40 A	100 mA	1	AM404M
	63 A	100 mA	1	AM634M
	80 A	100 mA	1	AM804M
	100 A	100 mA	1	AM1004M
	40 A	300 mA	1	AM404L
	63 A	300 mA	1	AM634L
	80 A	300 mA	1	AM804L
	100 A	300 mA	1	AM1004L
	100 A	300 mA, time delayed	1	AM1004LT
Adaptor kit to accept up to 50 mm ² cable			1	AMBT

Residual Current Operated Circuit Breaker – RCBO.

Residual current operated circuit breakers with integral overcurrent protection in accordance to IEC 61009.

A RCBO is an MCB (Miniature Circuit Breaker) with the function of RCCB (Residual Current Circuit Breaker). For adding earth fault protection to your MCB there are two options each complying with IEC 61009:

1. Choose from the standard ready assembled range of RCBOs incorporating type C MCBs.
2. Field fittable residual current (RC) units. An RCBO can be assembled on site.

This provides two benefits: Previously installed Eaton 1P & 1P+N MCBs can be upgraded to include Residual Current Protection, also stock of 1P & 1P+N Eaton MCBs previously supplied can be upgraded to include earth fault protection.

Example:

A field fitted MR30 will convert any 1P or 1P+N MCB into an RCBO with 30 mA residual current sensitivity.

Technical characteristics

- To guarantee discrimination with downstream residual current devices any upstream residual current device should be time delayed. The time delay period is between 150 – 400 ms.
- The RCBO is capable of responding to the superimposition of components of current on the supply caused by the operation of equipment using rectified voltages in compliance with IEC 61009.
- Under loss of supply neutral conditions the residual current element of the device will continue to provide earth leakage protection. With these conditions and upon detection of an earth leakage current the RCBO will operate within its normal characteristics.
- High voltage suppression is incorporated and the unit is therefore ideal for use with supply equipment susceptible to such mains borne transients.

 See page 75 for technical details.



MCH132R30

RCBOs – factory assembled, 1P, trip type C 10kA

- With integral overcurrent protection (ready assembled)
- The table highlights examples of the more commonly required RCBO units incorporating type C Eaton MCBs.
- The 15 kA Eaton Type B and C, 1P, MCBs can also be fitted with residual current protection. Due to the unique method of construction any Eaton 1P or 1P+N MCB can be fitted with residual current protection. A version of the residual current pod is available for use on 110 V 50/60 Hz systems.

Description	Rating	Sensitivity	Quantity per carton	Eaton list number
RCBO – Factory assembled	6 A	10 mA	1	MCH106R10
	10 A	10 mA	1	MCH110R10
	16 A	10 mA	1	MCH116R10
	20 A	10 mA	1	MCH120R10
	32 A	10 mA	1	MCH132R10
	6 A	30 mA	1	MCH106R30
	10 A	30 mA	1	MCH110R30
	16 A	30 mA	1	MCH116R30
	20 A	30 mA	1	MCH120R30
	32 A	30 mA	1	MCH132R30
	40 A	30 mA	1	MCH140R30

For 24 way type B TPN distribution boards, these factory assembled RCBOs have cable lengths suitable for the first 16 outgoing ways, only. Where RCBOs are required for outgoing ways 17-24, field fittable, clip on versions with longer cabling should be used (see page 43).



MR30

RCBOs – field fittable residual current units

- Any standard 1P or 1P+N Eaton MCB, 10kA, 15kA & 6kA, can be field fitted with a residual current unit to create an RCBO. To order simply select the required sensitivity and system voltage from the table below.
- For standard applications either the 230 – 240 Vac or 110 Vac ranges are used.
- For applications where 110 V centre-tapped power supplies are provided, additional high levels of safety can be achieved through use of a standard Eaton 2P, type B or type C MCB fitted with a 110 CTE type residual current unit.

Description	Rating	Sensitivity	Quantity per carton	Eaton list number
Field fittable RC-units	230 – 240 Vac	30 mA	1	MR30
Field fittable RC-units (1.2m tail)	230 – 240 Vac	30 mA	1	MR30LL¹
Field fittable RC-units	230 – 240 Vac	100 mA	1	MR100
Field fittable RC-units (1.2m tail)	230 – 240 Vac	100 mA	1	MR100LL¹
Field fittable RC-units	Time delayed, 230 – 240 Vac	100 mA	1	MR100D
	Time delayed, 230 – 240 Vac	300 mA	1	MR300D
	110 Vac	30 mA	1	MR30/110
	110 Vac	100 mA	1	MR100/110
	110 Vac CTE system	30 mA	1	MR30/110CTE
	110 Vac CTE system	100 mA	1	MR100/110CTE

¹For 24 way type B TPN Distribution boards, suffix 'LL' versions have 1.2m tails and are required when used on outgoing circuits 17-24

Earth leakage relays & CTs

Suitable for use with all Eaton MCCBs & MCBs to provide add-on earth leakage protection functionality. The earth leakage relay is used with an ELRCT series current transformer (core balance) and an appropriate MCB/MCCB shunt trip or undervoltage release. Power supply required 220-240V ac, 50/60Hz. Output contacts (volt-free) rated at 250V ac, 6A. Power and system LEDs show status of the relay, CT continuity, level of earth leakage, earth leakage trip. Eaton Earth Leakage Relays are designed & tested in accordance with IEC61008-1.

➔ See page 78 for dimensional details.



ELR1ADJ

Earth leakage relays – adjustable trip

Description	Sensitivity	Time delay	Width	Quantity per carton	Eaton list number
Earth leakage relay	Adjustable 30mA, 100mA, 300mA, 500mA, 1A, 3A, 5A	Adjustable 0.02, 0.1, 0.3, 0.5, 1, 3, 5s	36mm	1	ELR1ADJ



ELR30F

Earth leakage relays – fixed trip

Description	Sensitivity	Time delay	Width	Quantity per carton	Eaton list number
Earth leakage relay	Fixed 30mA	Instantaneous (0.02s)	36mm	1	ELR30F
Earth leakage relay	Fixed 300mA	Instantaneous (0.02s)	36mm	1	ELR300F



Current transformers (core balance)			
Description	Inner Dimension	Quantity per carton	Eaton list number
Current Transformer	20mm diameter	1	ELRCT20
	30mm diameter	1	ELRCT30
	35mm diameter	1	ELRCT35
	70mm diameter	1	ELRCT70
	105mm diameter	1	ELRCT105
	140mm diameter	1	ELRCT140
	210mm diameter	1	ELRCT210
	70mm x 175mm	1	ELRCT70-175
	115mm x 305mm	1	ELRCT115-305
	150mm x 350mm	1	ELRCT150-350
	200mm x 500mm	1	ELRCT200-500



Comb busbar, padlocking devices, auxiliary & alarm contacts and shunt trips

Comb busbar



MB1P

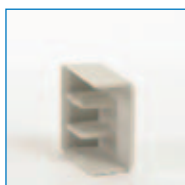
■ For MCBs, RCCBs & RCBOs

Technical characteristics

- Comb busbar is available for specialist applications and can be supplied in both pin and fork type formats.
- Comb busbars are supplied in 1 m lengths.
- Fork type comb busbar can be used with all Eaton MCBs and 4P RCCBs.
- Pin type comb busbar can be used with all Eaton MCBs, fuse modules, switch-disconnectors, terminal blocks 2P and 4P RCCBs.
- Due to a height difference 4P RCCBs cannot be inter-connected with comb busbar when mounted in combination with other devices.
- For incoming connections onto fork type comb busbar, MCB terminals clamp cable and busbar simultaneously.
- Busbar material: Copper.
- Rated operational voltage: 240/415 V.
- Rated operational current: 63 A (100 A centre fed).
- Unused ways on comb busbar can be shielded by fitting the Eaton blanking module, MBP.

Description	Type	Quantity per carton	Eaton list number
Comb busbar, 16 mm ² , 1P, insulated	Pin	1	MB1P
Comb busbar, 20 mm ² , 1P, insulated	Fork	1	MB1F
Comb busbar, 16 mm ² , 2P, insulated	Pin	1	MB2P
	Fork	1	MB2F
Comb busbar, 16 mm ² , 3P, insulated	Pin	1	MB3P
	Fork	1	MB3F
Comb busbar, 16 mm ² , 4P, insulated	Pin	1	MB4P
	Fork	1	MB4F

Comb busbar end covers



MBEC23

■ For MCBs, RCCBs & RCBOs

- For 2P, 3P and 4P busbar configurations supplied in packs of 10.

Description	Quantity per carton	Eaton list number
For 2P and 3P comb busbars: MB2P, MB2F, MB3P and MB3F	10	MBEC23
For 4P comb busbars: MB4P and MB4F	10	MBEC4

Padlocking devices



MBL2

■ For MCBs, RCCBs, RCBOs & switch disconnectors

- The wide range of Eaton devices are complimented by a range of padlocking devices.
- For MCBs and RCCBs the device mechanism is trip free which allows it to be padlocked 'ON' for security, but in the event of a fault condition the device will still operate to disconnect the fault. The device will move to the tripped position when the lock is removed. These devices can also be padlocked in the 'OFF' position.

Description	Quantity per carton	Eaton list number
Padlocking device for MCB & RCBO	1	MBL2
Padlocking device, for 2P RCCBs	1	AML2
Padlocking device, for switch disconnectors	1	SML4
Padlock, including 2 keys	1	PD2



MTSH1

Terminal shroud

■ **For MCBs, RCCBs & RCBOs**

Description	Quantity per carton	Eaton list number
Terminal shroud for MCB, 1P	1	MTSH1
Rear connection terminal	1	MBRC1



M2AU

Auxiliary and alarm contacts including test function

■ **For MCB & RCBO**

Auxiliary and alarm contact devices can be fitted together on one MCB. Each is incorporated in a 1/2 module (9 mm) casing with terminals protected to IP 20 capable of accepting cable up to 2.5 mm². These devices are designed and manufactured to IEC 60947-5-1 and incorporate a changeover switch providing remote indication of an MCB which has tripped under fault conditions.

Technical characteristics

- This auxiliary switch allows remote indication of the position of the MCB contacts.
- Auxiliary and Alarm contact ratings:
 - AC14 240 Vac 50Hz, 6A.
 - DC14 125 Vdc, 1A.
- The auxiliary contact will not differentiate between an MCB that is “off” or “tripped”.
- The auxiliary contact can be used in conjunction with a remote supply and signal lamps, bells or buzzers.

See page 75 for dimensional drawings.

Description	Quantity per carton	Eaton list number
Auxiliary switch incorporating a test function	1	M2AU
Alarm switch incorporating reset and test function	1	M2AL



M2STA

Shunt trips and under voltage releases

■ **For MCB & RCBO**

Technical characteristics

- Suitable for all Eaton MCBs including those with either auxiliary or alarm contacts.
- A shunt trip and undervoltage release can be fitted together on one MCB.
- Each is incorporated in a 1 module (18 mm) casing with terminals protected to IP 20 capable of accepting cable up to 2.5 mm².
- The shunt trip and UVR are simply clipped to the left hand side of an MCB and have terminals at one end to allow connection to pan assemblies and comb busbar.

A shunt release provides remote tripping of an MCB with three voltage options for AC & DC applications.

See page 75 for dimensional drawings.

Description	dc characteristics	ac characteristics	Quantity per carton	Eaton list number
MCB shunt trip	24 Vdc	24 Vac	1	M2STA
MCB shunt trip	48 V–60 Vdc	48 V–110 Vac	1	M2STB
MCB shunt trip	110 Vdc	240 Vac	1	M2STC



M2UVR240

Under Voltage Release

■ **For MCB & RCBO**

- Under Voltage Release (UVR) for remote tripping of an emergency stop loop.
- The UVR is simply clipped to the left hand side of an MCB and have terminals at one end to allow connection to pan assemblies and comb busbar.

See page 75 for dimensional drawings.

Description	ac characteristics	Quantity per carton	Eaton list number
Under voltage release	240 Vac	1	M2UV240

Rear connection terminal



MBRC1

■ For MCB & RCBO

Description	Quantity per carton	Eaton list number
Rear connection terminal	1	MBRC1

Terminal screw shield



MTS1

■ For MCB & RCBO

Description	Quantity per carton	Eaton list number
Terminal screw shield, 1P	1	MTS1

Terminal screw shield



MTSH1

■ For MCB & RCBO

Description	Quantity per carton	Eaton list number
Terminal shroud, 1P	1	MTSH1



Command control products

Time & impulse switches, contactors and switch-disconnectors

See page 76 for the technical details of Eaton Command Control products.



TAD1NC

Analogue day timers – 50 Hz net synchronised

230 V

Program range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	QPC	Eaton list number
Day	50 Hz - Net	1	CO	-	30 min.	54 mm	1	TAD1NC
Day	50 Hz - Net, 18mm	1	NO	-	15 min.	18 mm	1	TAD1NCS



TAD1S

Analogue day timers – quartz controlled

230 V, 50-60 Hz

Program range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	QPC	Eaton list number
Day	Quartz	1	CO	72 hrs.	30 min.	54 mm	1	TAD1
Day	Quartz, 18mm	1	NO	72 hrs.	15 min.	18 mm	1	TAD1S



TAW1

Analogue week timers – quartz controlled

230 V, 50-60 Hz

Program range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Width	QPC	Eaton list number
Week	Quartz	1	CO	72 hrs.	3 hrs.	54 mm	1	TAW1
Week	Quartz, 18mm	1	NO	72 hrs.	2 hrs.	18 mm	1	TAW1S



TDW1

Digital week timers – 1 & 2 channel

230 V, 50-60 Hz

Program range	Type	Channels	Contact configuration	Power reserve	Min. cycling time	Program steps	Width	QPC	Eaton list number
Week	Quartz	1	CO	10 yrs.	1 min.	28	36 mm	1	TDW1
Week	Quartz, 18mm	1	CO	3 yrs.	1 min.	28	18 mm	1	TDW1S
Week	Quartz	2	2 CO	10 yrs.	1 min.	42	36 mm	1	TDW2
Week	Quartz, advanced	2	2 CO	10 yrs.	1 min.	42	36 mm	1	TDW2E¹

¹ 2 channel, advanced (LCCD backlighting, Pulse-output, Cycle-program and Random program)



MBT1001

Terminal blocks

- They can be used in outgoing circuits in place of an Eaton MCB or RCBO to tap off to other devices or boards.
- Terminals are box type allowing cable capacity up to 50 mm².

Description	Type	Width	Rating	Quantity per carton	Eaton list number
Terminal blocks	1P	18 mm	100 A	1	MBT1001
	2P	36 mm	100 A	1	MBT1002
	3P	54 mm	100 A	1	MBT1003



CR2011230A

Contactors type CR

- When several contactors are mounted it is advisable to fit a blanking module, List number MBP, every 2 contactors.

See page 76 for technical details, inc AC ratings

Description	Rating	Coil voltage ac	Coil voltage dc	Width	Contacts	Quantity per carton	Eaton list number
Contactors	20 A	230Vac	–	18 mm	1 NO + 1 NC	1	CR2011230A
					2 NO	1	CR2020230A
	40 A	230Vac	220Vdc	54 mm	2 NO	1	CR4020230
	25 A	230Vac	–	36 mm	3 NO	1	CR2530230A
	40 A	230Vac	220Vdc	54 mm	3 NO	1	CR4030230
	63 A	230Vac	220Vdc	54 mm	2 NO	1	CR6320230
	25 A	230Vac	–	36 mm	4 NO	1	CR2540230A
	40 A	230Vac	220Vdc	54 mm	4 NO	1	CR4040230
	63 A	230Vac	220Vdc	54 mm	4 NO	1	CR6340230



AA161RA

Impulse switches/relays

Description	Rating	Coil voltage	Poles	Width	Contacts	Quantity per carton	Eaton list number
Impulse relays	16 A	230 Vac	1P	18 mm	1 NO	1	AA161RA
					1 NO / 1 NC	1	AA161RB



TE7

Staircase timer – standard version

Description	Delay off time adjustment	Contact configuration	Width per carton	Quantity number	Eaton list
Staircase timer	0.5 - 20 min.	NO	18 mm	1	TE7



MS1001

Switch-disconnectors

- IEC 60947-3, 100 A, 240/415 Vac, switching category AC22B.
- Positive contact indication is also provided.
- Terminals are box type allowing cable capacity up to 50 mm².
- 1P+N switch-disconnectors have neutral contacts which make first – break last.

Description	Type	Width	Rating	Quantity per carton	Eaton list number
Switch-disconnector	1P	18 mm	100 A	1	MS1001
	1P+N	36 mm	100 A	1	MS1001N
	2P	36 mm	100 A	1	MS1002
	3P	54 mm	100 A	1	MS1003
	3P+N	72 mm	100 A	1	MS1004
Padlocking device	–	–	–	1	SML4
Padlock, including 2 keys	–	–	–	1	PD2



Fuse carriers & fuses

For BS1361 fuses, 240V rated

The Eaton fuse carrier range uses high performance Eaton BS1361 type HRC fuses capable of disconnecting short circuits of up to 16 kA. The protection of circuits by Eaton fuse and carriers is particularly applicable where circuits exhibit high inrush e.g. high frequency lighting. Current ratings are available in 5 up to 45 A ratings. The range is available as 1P devices only.

Technical characteristics

- Eaton fuse carriers feature a fully shrouded contact mechanism.
- Each unit is supplied with a 240 V fuse fitted, and facility for a spare fuse, which can be contained within the fuse carrier.
- For 415 V applications contact us for details of suitable fuse units and fuselinks.
- Eaton types MFM35, MFM40, MFM45 units are 36 mm wide and require 2 x 1P distribution board ways.



See page 78 for the technical details of Eaton Fuse carriers & fuses.



MFM10

Fuse carriers, type HRC

- Fuse carrier is supplied including 1 HRC fuse

Description	Rating	Fuse type	Quantity per carton	Eaton list number
Fuse carrier	5 A	5LC	1	MFM05
	10 A	10LC	1	MFM10
	15 A	15LC	1	MFM15
	20 A	20LC	1	MFM20
	30 A	30LC	1	MFM30
	35 A	35LCS	1	MFM35
	40 A	40LCS	1	MFM40
	45 A	45LCS	1	MFM45



45LCS

Spare fuses

Description	Rating	Fuse type	Quantity per carton	Eaton list number
Spare fuse	5 A	5LC	1	5LC
	10 A	10LC	1	10LC
	15 A	15LC	1	15LC
	20 A	20LC	1	20LC
	30 A	30LC	1	30LC
	35 A	35LCS	1	35LCS
	40 A	40LCS	1	40LCS
	45 A	45LCS	1	45LCS

Type 1, 2 & 3 panelboard selection – 125A, 250A & 400A busbar

- IEC60439-1
- Tin-plated busbars
- Outgoing devices; 16A–125A SP & 16A–160A TP
- IP3X construction (Type 2 & 3)
- Busbar system KEMA certified
 - PBEG325 – 25kA Icc
 - PBEG625/825/1222 – 40kA Icc
 - PBEG640/1240 – 30kA Icw for 1s



See page 51 & 52 for incoming devices.
 See page 52 & 53 for outgoing devices.
 See page 53 for accessories.
 See page 54 for Metering.
 See page 79 for technical details.



PBEG325

Panelboards – type 1

Description	Current rating, (A)	No of ways	Associated incoming device	Eaton list number
Type 1 panelboard	125	3	Series G E-frame	PBEG325



PBEG625

Panelboards – type 2

Description	Current rating, (A)	No of ways	Associated incoming device	Eaton list number ¹
Type 2 panelboard	250	6	Series G J-frame	PBEG625
		8	Series G J-frame	PBEG825
		12	Series G J-frame	PBEG1225

¹For panelboards with removable slide glands plates add suffix '**M**', eg, **PBEG625M**

When used in conjunction with a meter pack, an incoming connection kit with CT's is required. See incomer connection kits table



PBEG640

Panelboards – type 3

Description	Current rating, (A)	No of ways	Associated incoming device	Eaton list number ¹
Type 3 panelboard	400	6	Series G L-frame	PBEG640
		12	Series G L-frame	PBEG1240

¹For panelboards with removable slide glands plates add suffix '**M**', eg, **PBEG640M**

Incomer connection kit required with type 3 panelboards (see page overleaf)



GJS3250AAG

MCCB – incoming devices

Panelboard	Incoming device	Current rating, (A)	Frame size, (kA)	Eaton list number
Type 1 panelboard	Series G E-Frame	100	18	GEB3100FFG
		125	18	GEE3125FFG
		160	40	GJS3160AAG
Type 2 panelboard	Series G J-Frame	200	40	GJS3200AAG
		250	40	GJS3250AAG
		250	50	GLS3250AAM
Type 3 panelboard	Series G L-Frame	320	50	GLS3320AAM
		400	50	GLS3400AAM



GJK3250KSG

Circuit breaker switch – incoming devices

Panelboard	Incoming device	Current rating, (A)	Frame size, (kA)	Eaton list number
Type 1 panelboard	Series G E-Frame	100	25	GEK3100KSG
		125	25	GEK3125KSG
Type 2 panelboard	Series G J-Frame	160	40	GJK3160KSG
		200	40	GJK3200KSG
		250	40	GJK3250KSG
Type 3 panelboard	Series G L-Frame	250	50	GLK3250KSM
		320	50	GLK3320KSM
		400	50	GLK3400KSM



PBEGLG40

Incomer connection kits

Panelboard	Incoming device	Eaton list number
Type 1 panelboard	Series G E-frame	Not required ¹
Type 2 panelboard	Series G J-frame	Not required ¹ PBEGJG25M ²
Type 3 panelboard	Series G L-frame	PBEGLG40
		PBEGLG40M ²
		PBEGL40
	Direct connection lugs kit	PBEGL40M ²

¹Incoming device must be used, i.e. no direct cable option on Type 2 Panelboards.

²Metering version – includes CTs (meter packs to be ordered separately). See meter pack table on page 54.



PBEGLG40M

Outgoing devices, Series G E-frame, MCCB – 25kA

Rating, (A)	Breaking capacity, (kA)	Pole configuration	Eaton list number
16	25	SP	GEE1016FFG
20	25	SP	GEE1020FFG
32	25	SP	GEE1032FFG
40	25	SP	GEE1040FFG
50	25	SP	GEE1050FFG
63	25	SP	GEE1063FFG
80	25	SP	GEE1080FFG
100	25	SP	GEE1100FFG
125	25	SP	GEE1125FFG
16	25	TP	GEE3016FFG
20	25	TP	GEE3020FFG
32	25	TP	GEE3032FFG
40	25	TP	GEE3040FFG
50	25	TP	GEE3050FFG
63	25	TP	GEE3063FFG
80	25	TP	GEE3080FFG
100	25	TP	GEE3100FFG
125	25	TP	GEE3125FFG
160	40	TP	GES3160AFG1



GEE3100FFG



GEB1125FFG & GEB3100FFG

Outgoing devices, Series G E-frame, MCCB – 18kA

Rating, (A)	Breaking capacity, (kA)	Pole configuration	Eaton list number
16	18	SP	GEB1016FFG
20	18	SP	GEB1020FFG
32	18	SP	GEB1032FFG
40	18	SP	GEB1040FFG
50	18	SP	GEB1050FFG
63	18	SP	GEB1063FFG
80	18	SP	GEB1080FFG
100	18	SP	GEB1100FFG
125	18	SP	GEB1125FFG
16	18	TP	GEB3016FFG
20	18	TP	GEB3020FFG
32	18	TP	GEB3032FFG
40	18	TP	GEB3040FFG
50	18	TP	GEB3050FFG
63	18	TP	GEB3063FFG
80	18	TP	GEB3080FFG
100	18	TP	GEB3100FFG
125	18	TP	GEB3125FFG
160	40	TP	GES3160AFG1

Accessories



PBEGLSPKIT

Description	Eaton list number
SP blanking module Series G E-frame (1pole per pack)	PBEGB1
Panel door lock with key	PBDLK2
MCCB accessory termination block for connection of shunt trios, UVRs etc	PBTB1
Terminal shroud for outgoing MCCB Series G E type 3P	EFTS3K
Terminal shroud for outgoing MCCB Series G E type 1P	EFTS1KA
Single phase kit for Type 1 & 2 panelboards	PBEGLSPKIT

Cable extension boxes – side mounted



PBEGSX900

Description	Eaton list number	Eaton list number	Eaton list number
To fit panelboard PBEG625	PBEGSX900	PBEGSX900HL	PBEGSX900HR
To fit panelboard PBEG640 & PBEG825	PBEGSX1050	PBEGSX1050HL	PBEGSX1050HR
To fit panelboard PBEG1225	PBEGSX1150	PBEGSX1150HL	PBEGSX1150HR
To fit panelboard PBEG1240	PBEGSX1300	PBEGSX1300HL	PBEGSX1300HR

¹Suffix 'HL' indicates left hand hinged door for outgoing metering applications. Suffix 'HR' indicates right hand hinged door for outgoing metering applications. i.e. **PBEGSX900HL**

Cable extension boxes – top/bottom mounted



PBEGEX250

Description	Eaton list number
250mm high	PBEGEX250



PBEGSX250

Corner filler box

Description

For use where top/bottom/meter boxes are fitted in conjunction with side cable boxes

Eaton list number

PBEGSX250



PBEGMPA25

Incomer metering – analogue

- Incoming connection kit: metering version required.
- Meter packs include the meters and housing, cable loom and fuses. Where a meter pack is used with a GL incomer a cable extension box; **PBEGEX250**, will also be required to provide additional space for incoming cables. This will need to be ordered separately.
- Analogue voltmeter & selector switch.
- Analogue ammeter & selector switch.
- Phase indication lamps.

Description

6,8,12way Series G J-frame incomer
6,12way Series G L-frame incomer

Current rating, (A)

250
400

Eaton list number

PBEGMPA25
PBEGMPA40



PBEGMPD

Incomer metering – digital

- kW/hr, phase Amps, phase Volts, line Volts, per phase PF, per phase kW, 3 phase PF, 3 phase kW, frequency, import kWh (ie; pulsed output).

Description

Series G J/L-frame incomer

Current rating, (A)

250/400

Eaton list number

PBEGMPD

Outgoing metering – digital

- “NEW” available September 2007
- Where meters are to be used on outgoing circuits, select a panelboard with removable side gland plates suffix ‘M’ eg, **PBEG625M**
- Select side cable extension boxes with hinged doors, add suffix ‘HL’ or ‘HR’ eg, **PBEGSX900HL**
- Select meter(s) and CT module(s)

Description

Multifunction meter din 96mm x 96mm
Blanking plate for unused Meter ways – Din 96mm x 96mm
CT module

Current rating, (A)

–
–
100A
250A
400A

Eaton list number

PBMETER1
PBDIN96B
PBCTMT100
PBCTMT250
PBCTMT400



Type 4 & 5 panelboard selection – 400A & 630A busbar

- IEC 60439-1
- Tin-plated busbars
- Outgoing devices; these panelboards utilise two frame sizes of MCCB: 80A–250A TP and SP 16A–125A & TP 16A–160A
- IP3X construction
- Busbar system KEMA certified
 - Type 4 – 35kA l_{cw} for 1s
 - Type 5 – 50kA l_{cw} for 1s



See page 55 & 56 for incoming devices.
 See page 56 & 57 for outgoing devices.
 See page 57 for accessories.
 See page 58 for metering.
 See page 79 for technical details.



PBJG640

Panelboards – type 4

Description	Current rating, (A)	Number of ways	Associated incoming device	Eaton list number
Type 4 panelboard	400A	6 (2 x 250A + 4 x 125A)	Series G J or L-frame	PBJG640
		12 (2 x 250A + 10 x 125A)	Series G J or L-frame	PBJG1240
		18 (2 x 250A + 16 x 125A)	Series G J or L-frame	PBJG1840

¹For panelboards with removable slide glands plates add suffix 'M' eg, **PBJG640M**

When used in conjunction with a meter pack, an incoming connection kit with CT's is required. See incomer connection kits table.



PBJG863

Panelboards – type 5

Description	Current rating, (A)	Number of ways	Associated incoming device	Eaton list number
Type 5 panelboard	630A	8 (4 x 250A + 4 x 125A)	Series G L-frame	PBJG863
		12 (4 x 250A + 8 x 125A)	Series G L-frame	PBJG1263
		18 (4 x 250A + 14 x 125A)	Series G L-frame	PBJG1863

¹For panelboards with removable slide glands plates add suffix 'M' eg, **PBJG863M**

When used in conjunction with a meter pack, an incoming connection kit with CT's is required. See incomer connection kits table.



GJS3250AAG

MCCB – incoming devices

Description	Incoming device	Current rating, (A)	Breaking capacity, (kA)	Eaton list number
Type 4 panelboard	Series G J-frame	250	40	GJS3250AAG
		Series G L-frame	250	50
	Series G L-frame	320	50	GLS3320AAM
		400	50	GLS3400AAM
			70	GLH3400AAM
			70	GLH3400AAM
Type 5 panelboard	Series G L-frame	250	50	GLS3250AAM
		320	50	GLS3320AAM
	Series G L-frame	400	50	GLS3400AAM
			70	GLH3400AAM
			70	GLH3400AAM
			70	GLH3400AAM
Series G L-frame	630	50	GLS3630AAM	
		70	GLH3630AAM	
			GLH363032M¹	

¹Electronic LS



GLK3400KSM

Circuit breaker switch in-come – incoming devices

Panelboard	Incoming device	Current rating, (A)	Breaking capacity, (kA)	Eaton list number
Type 4 panelboard	Series G J-frame	250	40	GJK3250KSG
	Series G L-frame	250	50	GLK3250KSM
		320	50	GLK3320KSM
		400	50	GLK3400KSM
Type 5 panelboard	Series G L-frame	250	50	GLK3250KSM
		320	50	GLK3320KSM
		400	50	GLK3400KSM
		630	50	GLK3630KSM



PBJGLG40

In-come connection kits

Panelboard	Incoming device	Current rating, (A)	Eaton list number
Type 4 panelboard	Series G J-frame	250	PBJJG25
			PBJJG25M¹
	Series G L-frame	400	PBJGL40
			PBJGL40M¹
Type 5 panelboard	Series G L-frame	630	PBJGL40
			PBJGL40M¹
			PBJGL63
			PBJGL63M¹
			PBJGL63
	Lugs connection	630	PBJGL63M¹

¹Metering versions – includes CTs. (Meter pack must be ordered separately)



PBJGLG40M

Outgoing devices, Series G J-frame MCCB – 40kA

- Up to 2 for type 4 panelboards
- Up to 4 for type 5 panelboards

Current rating, (A)	Frame size, (kA)	Pole configuration	Eaton list number
80	40	TP	GJS3080AAG
100	40	TP	GJS3100AAG
125	40	TP	GJS3125AAG
160	40	TP	GJS3160AAG
200	40	TP	GJS3200AAG
250	40	TP	GJS3250AAG



GJS3250AAG



GEE1125FFG & GEE3100FFG

Outgoing devices, Series G E-frame MCCB – 25kA

Current rating, (A)	Breaking capacity, (kA)	Pole configuration	Eaton list number
16	25	SP	GEE1016FFG
20	25	SP	GEE1020FFG
32	25	SP	GEE1032FFG
40	25	SP	GEE1040FFG
50	25	SP	GEE1050FFG
63	25	SP	GEE1063FFG
80	25	SP	GEE1080FFG
100	25	SP	GEE1100FFG
125	25	SP	GEE1125FFG
16	25	TP	GEE3016FFG
20	25	TP	GEE3020FFG
32	25	TP	GEE3032FFG
40	25	TP	GEE3040FFG
50	25	TP	GEE3050FFG
63	25	TP	GEE3063FFG
80	25	TP	GEE3080FFG
100	25	TP	GEE3100FFG
125	25	TP	GEE3125FFG
160	40	TP	GES3160AFG1



GEB3016FFG

Outgoing devices, Series G E-frame MCCB – 18kA

Current rating, (A)	Breaking capacity, (kA)	Pole configuration	Eaton list number
16	18	SP	GEB1016FFG
20	18	SP	GEB1020FFG
32	18	SP	GEB1032FFG
40	18	SP	GEB1040FFG
50	18	SP	GEB1050FFG
63	18	SP	GEB1063FFG
80	18	SP	GEB1080FFG
100	18	SP	GEB1100FFG
125	18	SP	GEB1125FFG
16	18	TP	GEB3016FFG
20	18	TP	GEB3020FFG
32	18	TP	GEB3032FFG
40	18	TP	GEB3040FFG
50	18	TP	GEB3050FFG
63	18	TP	GEB3063FFG
80	18	TP	GEB3080FFG
100	18	TP	GEB3100FFG
125	18	TP	GEB3125FFG
160	40	TP	GES3160AFG1

Accessories



PBJGB3

Description	Eaton list number
SP blanking module Series G E-frame (1pole per pack)	PBEGB1
TP blanking module Series G J-frame	PBJGB3
Panel door lock with key	PBDLK2
MCCB accessory termination block for connection of shunt trios, UVRs etc	PBTB1
Terminal shroud outgoing MCCB Series G E-frame type 3P	EFTS3K
Terminal shroud outgoing MCCB Series G E-frame type 1P	EFTS1KA
Terminal shroud outgoing MCCB Series G J-frame type 3P	FJTS3K

Cable extension boxes – side mounted



PBSX1600

Description	Eaton list number	Eaton list number ¹	Eaton list number ¹
To fit panelboard PBJG640 & PBJG863	PBJGSX1400	PBJGSX1400HL	PBJGSX1400HR
To fit panelboard PBJG1240 & PBJG1263	PBSX1600	PBJGSX1600HL	PBJGSX1600HR
To fit panelboard PBJG1840 & PBJG1863	PBSX1800	PBJGSX1800HL	PBJGSX1800HR

¹Suffix 'HL' indicates left hand hinged door for outgoing metering applications. Suffix 'HR' indicates right hand hinged door for outgoing metering applications. i.e **PBEGSX900HL**

Cable extension boxes – top/bottom mounted



PBEX250

Description	Eaton list number
250mm high	PBEX250

Corner filler box



PBSX250

Description	Eaton list number
For use where top/bottom/meter boxes are fitted in conjunction with side cable boxes	PBSX250

Incomer metering – analogue



PBJGMPA25

- Incoming connection kit: metering version required.
- Meter packs include the meter and housing, cable loom and fuses. Where a meter pack is used with a GL incomer a cable extension box; **PBEX250**, will also be required to provide additional space for incoming cables. This will need to be ordered separately.
- Analogue voltmeter & selector switch.
- Analogue ammeter & selector switch.
- Phase indication lamps.

Description	Current rating, (A)	Eaton list number
Type 4 panelboard	250	PBJGMPA25
	400	PBJGMPA40
Type 5 panelboard	630	PBJGMPA63

Incomer metering – digital



PBJGMPD

- kW/hr, phase Amps, phase Volts, line Volts, per phase PF, 3 phase PF, 3 phase kW, frequency, import kWh (ie; pulsed output).

Description	Current rating, (A)	Eaton list number
Type 4 & 5 panelboard	250	PBJGMPD
	400	PBJGMPD
	630	PBJGMPD

Outgoing metering – digital

- “NEW” available September 2007
- Where meters are to be used on outgoing circuits, select a panelboard with removable side gland plates suffix ‘M’ eg, **PBJG640M**
- Select side cable extension boxes with hinged doors, add suffix ‘HL’ or ‘HR’ eg, **PBJGSX1400HL**
- Select meter(s) and CT module(s)

Description	Current rating, (A)	Eaton list number
Multifunction meter din 96mm x 96mm	–	PBMETER1
Blanking plate for unused Meter ways – Din 96mm x 96mm	–	PBDIN96B
CT module	100A	PBCTMT100
	250A	PBCTMT250
	400A	PBCTMT400



Type 6 panelboard selection – 800A busbar

- IEC 60439-1
- Tin-plated busbars
- Outgoing devices; these panelboards utilise three frame sizes of MCCB: 250A–400A TP, 63A–250A TP, 16A–125A SP, 16A–160A TP
- IP3X construction
- Busbar system KEMA certified; 50kA I_{cw} for 1s



See page 60 for incoming devices.
See page 60 & 61 for outgoing devices.
See page 62 for accessories.
See page 62 & 63 for metering.
See page 79 for technical details.



PBLG880

Panelboards – type 6

- Removeable side gland plates as standard.

Description	Current rating, (A)	No of ways	Eaton list number
Type 6 panelboard	800	8 (2 x 400A + 2 x 250A + 4 x 125A)	PBLG880
		12 (2 x 400A + 4 x 250A + 6 x 125A)	PBLG1280



GLW3800T32W

Incoming device – connection kit required

Description	Current rating, (A)	Breaking capacity, (kA)	Eaton list number
Moulded case circuit breaker	800	50	GLW3800T32W
Circuit breaker switch	800	50	GLK3800KSW



PBLGLW80M

Incomer connection kits

Description	Incomer	Eaton list number
Type 6 panelboard	800A MCCB or CBS	PBLGLW80
	Direct connection lugs kit	PBJGL63
	800A MCCB or CBS	PBLGLW80M¹
	800A direct connection lugs kit	BJGL63M¹

¹Metering versions – includes CTs.



GLS3250AAG

Outgoing devices, Series G L-frame MCCB – 50kA

- Up to 2 per panelboard
- Side cable box(es) required when fitting Series G L-frame MCCBs

Rating, (A)	Breaking capacity, (kA)	Pole configuration	Eaton list number
250	50	TP	GLS3250AAG
320	50	TP	GLS3320AAG
400	50	TP	GLS3400AAG



GJS3250AAG

Outgoing devices, Series G J-frame MCCB – 40kA

- Up to 2 for PBLG880
- Up to 4 for PLG1280

Current rating, (A)	Breaking capacity, (kA)	Pole configuration	Eaton list number
80	40	TP	GJS3080AAG
100	40	TP	GJS3100AAG
125	40	TP	GJS3125AAG
160	40	TP	GJS3160AAG
200	40	TP	GJS3200AAG
250	40	TP	GJS3250AAG



GEE1125FFG & GEE3100FFG

Outgoing devices, Series G E-frame MCCB – 25kA

Current rating, (A)	Breaking capacity, (kA)	Pole configuration	Eaton list number
16	25	SP	GEE1016FFG
20	25	SP	GEE1020FFG
32	25	SP	GEE1032FFG
40	25	SP	GEE1040FFG
50	25	SP	GEE1050FFG
63	25	SP	GEE1063FFG
80	25	SP	GEE1080FFG
100	25	SP	GEE1100FFG
125	25	SP	GEE1125FFG
16	25	TP	GEE3016FFG
20	25	TP	GEE3020FFG
32	25	TP	GEE3032FFG
40	25	TP	GEE3040FFG
50	25	TP	GEE3050FFG
63	25	TP	GEE3063FFG
80	25	TP	GEE3080FFG
100	25	TP	GEE3100FFG
125	25	TP	GEE3125FFG
160	40	TP	GES3160AFG1



GEB3063FFG

Outgoing devices, Series G E-frame MCCB – 18kA

Current rating, (A)	Breaking capacity, (kA)	Pole configuration	Eaton list number
16	18	SP	GEB1016FFG
20	18	SP	GEB1020FFG
32	18	SP	GEB1032FFG
40	18	SP	GEB1040FFG
50	18	SP	GEB1050FFG
63	18	SP	GEB1063FFG
80	18	SP	GEB1080FFG
100	18	SP	GEB1100FFG
125	18	SP	GEB1125FFG
16	18	TP	GEB3016FFG
20	18	TP	GEB3020FFG
32	18	TP	GEB3032FFG
40	18	TP	GEB3040FFG
50	18	TP	GEB3050FFG
63	18	TP	GEB3063FFG
80	18	TP	GEB3080FFG
100	18	TP	GEB3100FFG
125	18	TP	GEB3125FFG
160	40	TP	GES3160AFG1



PBJGB3

Accessories

Description	Eaton list number
SP blanking module Series G E-frame (1pole per pack)	PBEGB1
TP blanking module Series G J-frame	PBJGB3
TP blanking module Series G L-frame	PBLGB3
Panel door lock with key	PBDLK2
MCCB accessory termination block for connection of shunt trios, UVRs etc	PBTB1
Terminal shroud outgoing MCCB Series G E type 3P	EFTS3K
Terminal shroud outgoing MCCB Series G E type 1P	EFTS1KA
Terminal shroud outgoing MCCB Series G J type 3P	FJTS3K

Cable extension boxes – side mounted



PBSX1600

Description	Eaton list number	Eaton list number ¹	Eaton list number ¹
800A (2 + 2 + 4 way)	PBSX1600	PBLGSX1600HL	PBLGSX1600HR
800A (2 + 4 + 6 way)	PBSX1800	PBLGSX1800HL	PBLGSX1800HR

¹Suffix 'HL' indicates left hand hinged door for outgoing metering applications. Suffix 'HR' indicates right hand hinged door for outgoing metering applications. i.e **PBLGSX1600HL**

Cable extension boxes – top/bottom mounted



PBEX250

Description	Eaton list number
250mm high	PBEX250

Corner filler box



PBSX250

Description	Eaton list number
For use where top/bottom / meter boxes are fitted in conjunction with side cable boxes	PBSX250

Incomer metering – analogue



PBLGMPA63

- Incoming connection kit: metering version required.
- Meter packs include the meter and housing, cable loom and fuses. Where a meter pack is used with a GL incomer a cable extension box; **PBEX250**, will also be required to provide additional space for incoming cables. This will need to be ordered separately.
- Analogue voltmeter & selector switch.
- Analogue ammeter & selector switch.
- Phase indication lamps.

Description	Current rating, (A)	Eaton list number
Type 6 Panelboard	800	PBLGMPA63



PBJGMPD

Incomer metering – digital

- kWh/hr, phase Amps, phase Volts, line Volts, per phase PF, per phase kW, 3 phase PF, 3 phase kW, frequency, import kWh (ie; pulsed output).

Description	Current rating, (A)	Eaton list number
Type 6 Panelboard	800	PBJGMPD

Outgoing metering – digital

- “NEW” available September 2007.
- Select side cable extension boxes with hinged doors, add suffix ‘HL’ or ‘HR’ eg, **PBLGSX1600HL**
- Select meter(s) and CT module(s)

Description	Current rating, (A)	Eaton list number
Multifunction meter din 96mm x 96mm	–	PBMETER1
Blanking plate for unused Meter ways – Din 96mm x 96mm	–	PBDIN96B
CT module	100A	PBCTMT100
	250A	PBCTMT250
	400A	PBCTMT400



TVSS kits for MCCB panelboards

A Surge protective device has been developed specifically for application with MCCB panelboards ensuring outstanding product performance for all sensitive, mission critical and general purpose loads. The UL1449 Second Edition and UL1283 listed devices provide high peak surge current ratings and exceptionally low real-world measured limiting (let-through) voltage values, together with outstanding durability, assuring a lifetime of effective, maintenance free protection for all electrical and electronic systems.

Protection:

- Active Response Network (ARN) provides optimum suppression of internal switching generated transients.
- Threshold Response Network (TRN) provides maximum suppression of high energy impulse generated transients. This assures excellent protection of sensitive electronic, electro-mechanical and micro-processor based equipment.
- LED status indication is provided.
- Volt free relay allows remote status indication.



See page 71 for technical details.



M2SSK3EG

General specifications

- Description:** Parallel configured, hard wire connected, 80kA per phase peak surge current transient voltage surge suppressor.
- Application:** Location categories B and A, medium and low exposure level. General purpose, sensitive, and mission critical loads. Small AC power service entrances (630amps), MCCB panelboards.
- Warranty:** 10 year Free Replacement.
- Unit listings:** UL1449 second edition, UL1283 filter.
- Quality:** ISO 9001: 1994 quality system certification BSI FM 30833.

Mechanical specifications

- TVSS Enclosure:** IP23 rated steel enclosure.
- Mounting:** Conduit fitting and multi-point mounting feet.
- Connection:** Standard products include approx. 450mm factory fitted stranded cable #10 AWG (H 6mm²).
- Shipping weight:** 2.2kg.

TVSS modules

- Each TVSS module is supplied complete with the following:
 - TVSS unit as detailed above
 - 32A TP MCCB
 - Fittings to attach TVSS unit to panelboard
 - Full instructions
- For full details of TVSS products refer to the transient voltage surge suppression catalogue available on request.

Description

TVSS module kit

Eaton list number

M2SSK3EG



Incorporating Eaton's high performance Series 'G' MCCBs. These ready assembled Enclosed MCCB units, including earth leakage versions offer simple and swift installation. The Earth leakage modules provide early indication of a potential ground fault, having an alarm function and built in indication that >50% of the set Earth leakage value has been reached. The modules have adjustable settings and adjustable time delay. The built in earth leakage functionality offers enhanced protection for both plant and personnel.

See page 81 for dimensional drawings.



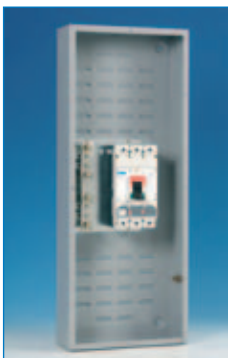
GJS4160AAGER

Characteristics

- Current ratings from 63A – 630A
- 1, 3 and 4P variants
- Integrated earth leakage versions in current ratings – 100A, 160A & 250A
- Type tested to IEC60439–1 KEMA short circuit tested
- Clear large rating label fitted
- Front access to EL reset button
- IP3X construction
- KEMA short circuit testing – IEC60439–1 clause 8.2.3
- 1.5mm steel industrial enclosure & 2mm steel cover
- RAL 7004 epoxy polyester finish (light grey)
- Removable neutral link (1 & 3P)

Applications

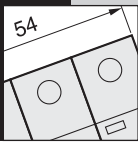
- Industrial and commercial applications for control of power circuits
- Earth leakage versions for enhanced protection. Adjustable sensitivity and time delay settings for discrimination with other RCD devices



GLS3400AAGE

Product range

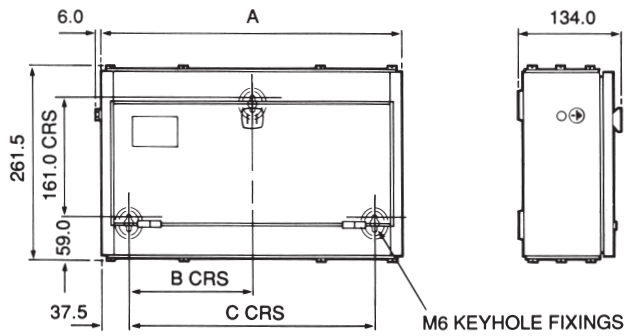
Description	Current rating (A)	Pole configuration	Eaton list number
Enclosed MCCB	63	1	GEE1063FFGE
Enclosed MCCB	63	3	GEE3063FFGE
Enclosed MCCB	63	4	GEE4063FFGE
Enclosed MCCB	80	1	GEE1080FFGE
Enclosed MCCB	80	3	GEE3080FFGE
Enclosed MCCB	80	4	GEE4080FFGE
Enclosed MCCB	100	1	GEE1100FFGE
Enclosed MCCB	100	3	GEE3100FFGE
Enclosed MCCB	100	4	GEE4100FFGE
Enclosed MCCB	125	1	GEE1125FFGE
Enclosed MCCB	125	3	GEE3125FFGE
Enclosed MCCB	125	4	GEE4125FFGE
Enclosed MCCB	160	3	GJS3160AAGE
Enclosed MCCB	160	4	GJS4160AAGE
Enclosed MCCB	200	3	GJS3200AAGE
Enclosed MCCB	200	4	GJS4200AAGE
Enclosed MCCB	250	3	GJS3250AAGE
Enclosed MCCB	250	4	GJS4250AAGE
Enclosed MCCB	400	3	GLS3400AAGE
Enclosed MCCB	400	4	GLS4400AAGE
Enclosed MCCB	630	3	GLS3630AAGE
Enclosed MCCB	630	4	GLS4630AAGE
Enclosed MCCB with integrated earth leakage	100	4	GJS4100AAGER
Enclosed MCCB with integrated earth leakage	160	4	GJS4160AAGER
Enclosed MCCB with integrated earth leakage	250	4	GJS4250AAGER



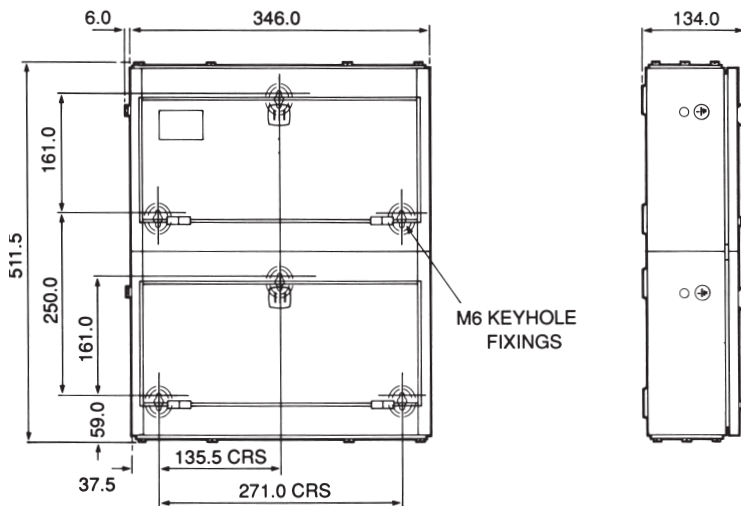
Memshield 2 MCB distribution boards

Distribution Board type A, dimensional drawings

- **Type A 100A SPN 2 - 16 way, DP 5 & 8 WAY, split load and dual tariff distribution boards, 1 row DIN-rail enclosures**



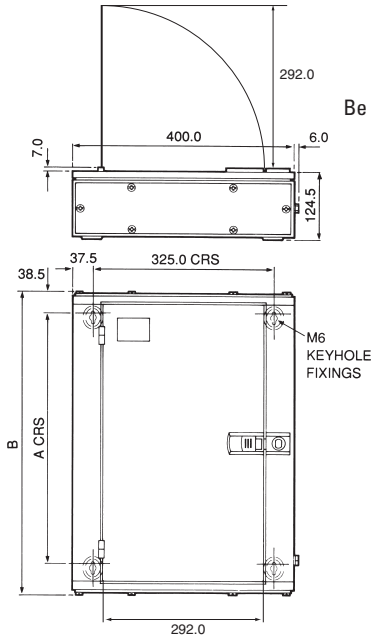
- **AMSL910 split load distribution board**



Eaton list number	A	B	C
AM2	152	38.5	77
AM4	238	81.5	163
AM7	292	108.5	217
AM5D, AM10	346	135.5	271
AM13, AM9M	400	162.5	325
AM8D, AM16, AM12M, AMSL66M, AMSL84M	454	189.5	379
AMSL37, AMSL64	400	162.5	325
AMSL67, AMSL94, AMSL310	454	189.5	379
AMSL910	346	135.5	271
AMDT74	400	162.5	325
AMDT77, AMDT104	454	189.5	379
BMXDC4, BMXDCC4	152	38.5	77
BMXDC6, BMXDCC6	238	81.5	163
BMXDC9, BMXDCC9	292	108.5	217
BMXDC15, BMXDCC15	400	162.5	325

Distribution Board type B, dimensional drawings

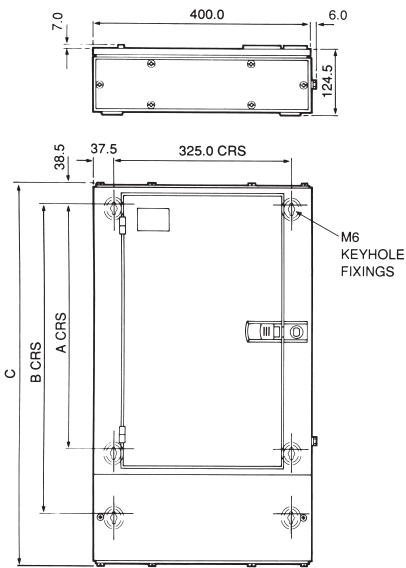
■ Type B 100A TPN 4–6 way, DP 6–24 way, and split load distribution boards, 3 row DIN-rail enclosures*



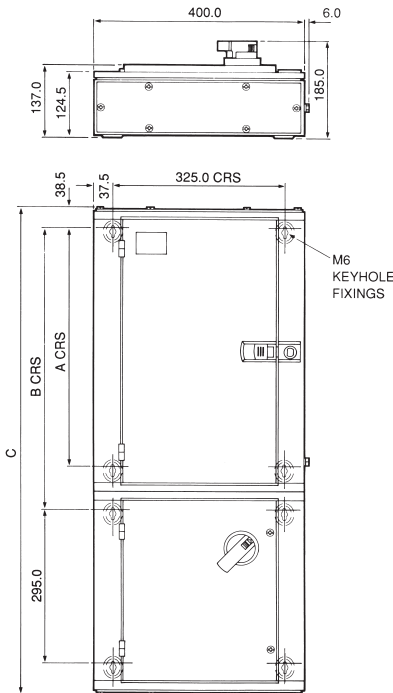
Be aware of the minimum depth required when door is open to 90 degrees.

Eaton list number	A	B
BM41	403	497.5
BM61	457	551.5
BM61D	403	551.5
BM81	511	605.5
BM121D	511	659.5
BM121, BM181D	673	767.5
BM161, BM241D	781	875.5
BMSL48, BMSL66, BMSL84	727	821.5
BMSL88	835	929.5
BMXDC30, BMXDCG30	457	551.5
BMXDC45, BMXDCG45	673	767.5

■ Type B 200A TPN 4–24 way distribution boards



■ Type B 4–16 way distribution boards with fcs incomer



■ 200A Board

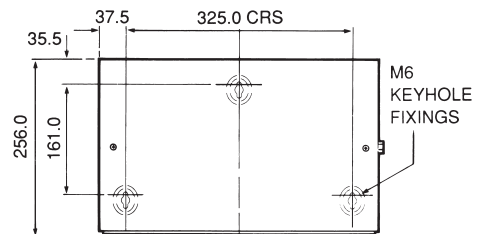
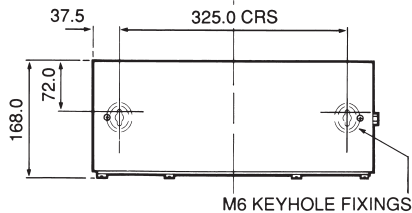
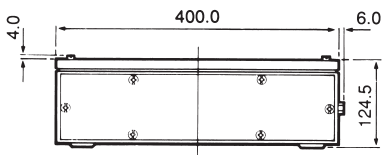
Eaton list number	A	B	C
BM42	457.0	–	551.5
BM62	511.0	–	605.5
BM82	565.0	–	659.5
BM122	673.0	–	767.5
BM162	781.0	–	875.5
BM242	1053	–	1140

■ 160/200A Switch Disconnecter/F-Frame MCCB, BMS2001N, BMS1603, BMS2003 or BMK2003

Eaton list number	A	B	C
BM42	457.0	579.5	713.5
BM62	511.0	633.5	767.5
BM82	565.0	687.5	821.5
BM122	673.0	795.5	929.5
BM162	781.0	903.5	1037.5
BM242	1053	1175.5	1302

■ 4–16 way distribution board with fcs incomer

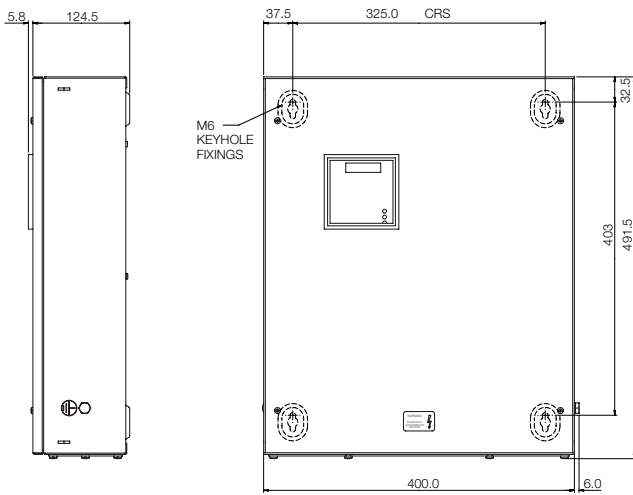
Eaton list number	A	B	C
BMFCS4	403.0	486.0	875.5
BMFCS6	457.0	540.0	929.5
BMFCS8	511.0	594.0	983.5
BMFCS12	673.0	702.0	1145.5
BMFCS16	781.0	810.0	1253.5



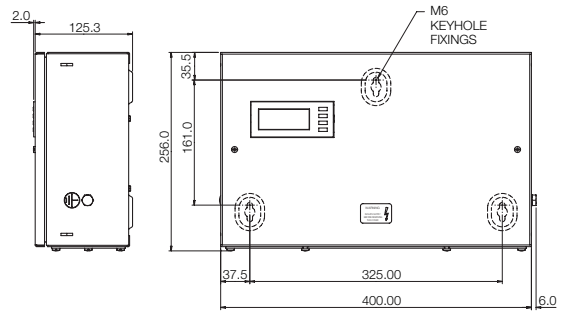
All dimensions in mm.

Meter pack assemblies, dimensional drawings

■ B MMPDC100

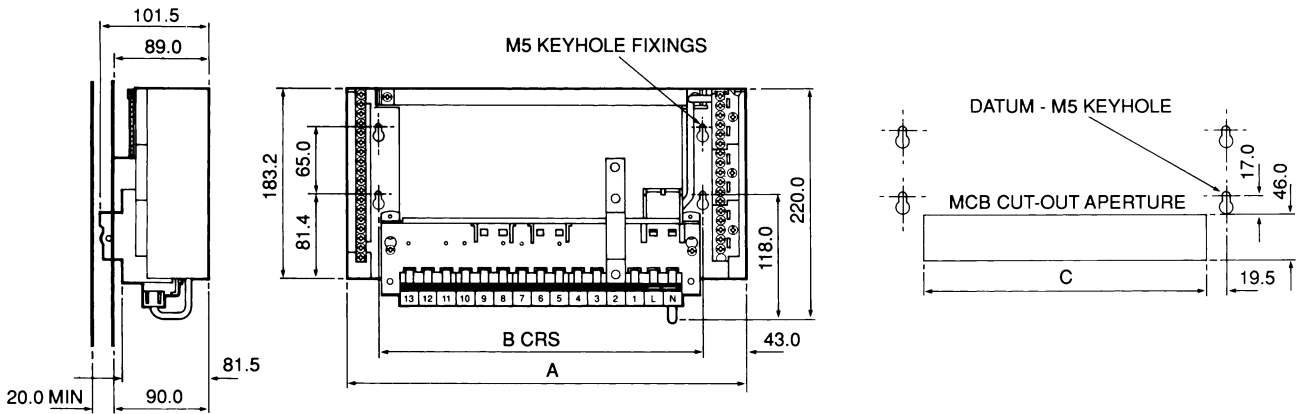


■ B MMPCT200



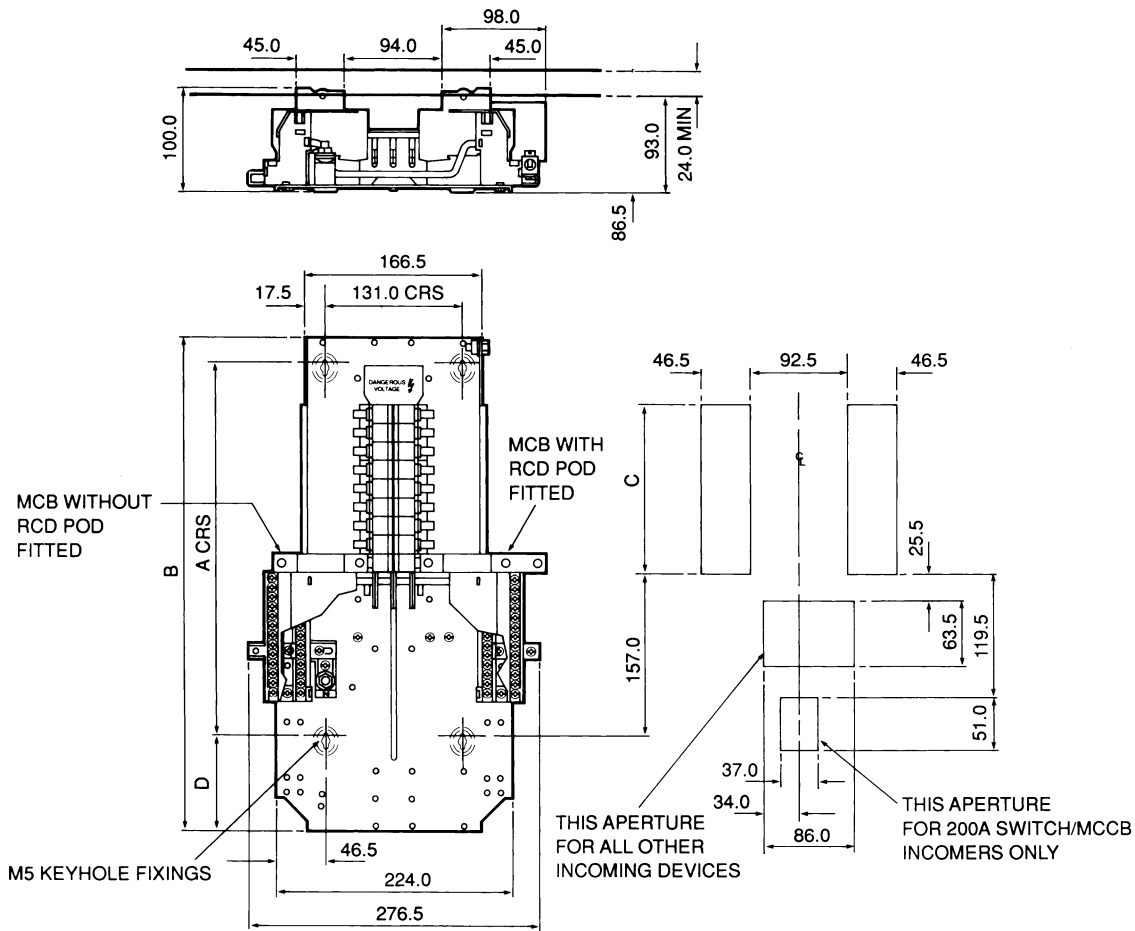
	B MMPDC100	B MMPCT200
Display	LCD	Backlit LCD
Accuracy class	2	1
Meter – OFGEM approved/certified	Yes (billing applications)	No
Rated current	120A (direct connection)	Ct fed 3 x 5A
Ct's fitted	No – not required for 100A applications	Yes 200:5 Class 1
Parameters display	KWh	A, V, kW, kWh, kVAr, KVArh, Power factor
Pulsed output kWh	Yes	Yes

Type A Pan assemblies, single phase, dimensional drawings



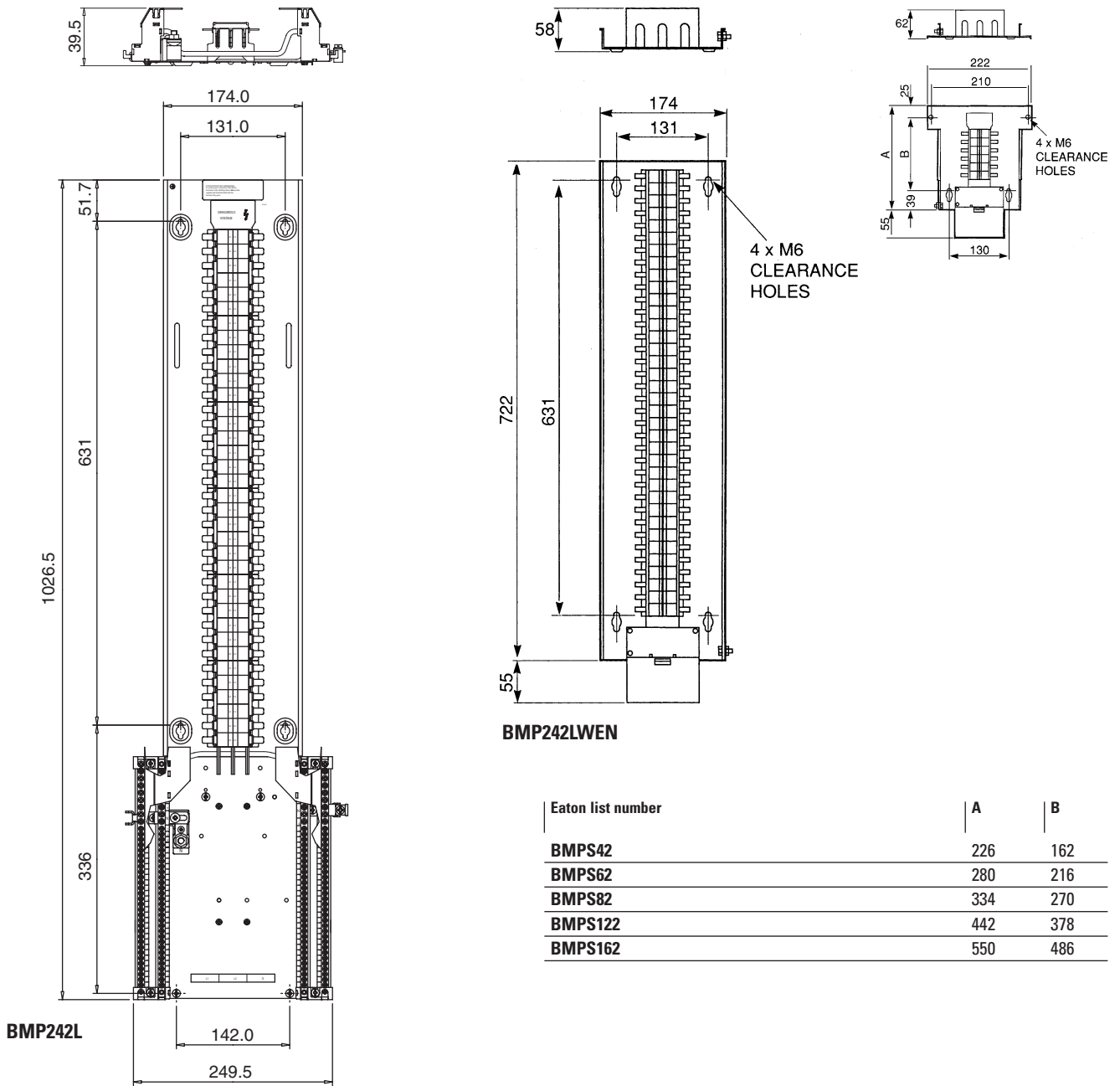
Eaton list number	A	B	C
AMP4	218.5	147.5	109
AMP7	272.5	201.5	163
AMP5D, AMP10	326.5	255.5	217
AMP13	380.5	309.5	271
AMP8D, AMP16	434.5	363.5	325

Type B Pan assemblies, single phase, dimensional drawings

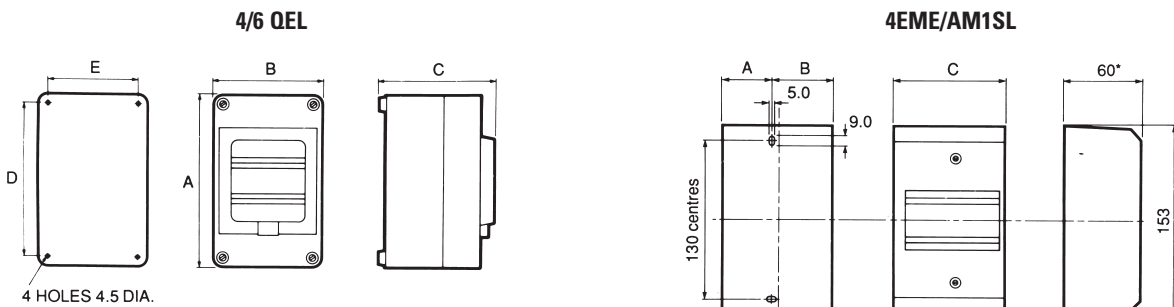


Eaton list number	A	B	C	D
BMP41	307	369.5	109.5	38.5
BMP61	361	423.5	163.5	38.5
BMP81	415	477.5	217.5	38.5
BMP42, BMP61D	307	423.5	109.5	92.5
BMP62	361	477.5	163.5	92.5
BMP82, BMP121D	415	531.5	217.5	92.5
BMP122, BMP181D	523	639.5	325.5	92.5
BMP162, BMP241D	631	747.5	433.5	92.5

Pan assemblies, pan assemblies without earth and neutral, dimensional drawings



Moulded enclosures, dimensional drawings



Eaton list number	A	B	C	D	E
4QEL	170	105	112	153	88
6QEL	170	135	112	130	80

Eaton list number	A	B	C
4EME	39	49	89
AM1SL	33	20	53

Distribution boards type A and type B, technical overview

Type	SPN A Boards	TPN B Boards
Standards	BS5486 – Part 12 BS5486 – Part 13	BS5486 – Part 12 BSEN60439-3 BSEN60439-3
Busbar rating	100A	200A
Busbar type	Fully shrouded solid copper	Fully shrouded dual solid copper
Voltage rating	240V AC 50/60Hz	240/415V AC 50/60Hz
IP rating to BS5420:1977	IP4X	IP4X
Enclosure body type	Light grey finish over rust protected sheet steel	Light grey finish over rust protected sheet steel
Enclosure paint type	RAL 7004 epoxy polyester	RAL 7004 epoxy polyester
Knockouts – body	4/7/10 way; 2 off 33 x 60mm 13/16 way; 4 off 33 x 60mm in rear plate	Knockouts each side for busbar connecting kit
Cable capacities		
100A Switch-disconnector	50mm ²	50mm ²
125A TP Switch-disconnector	–	70mm ²
160A TP Switch-disconnector	–	70mm ²
200A Switch-disconnector	–	120mm ²
100A Terminal block (Lugs)	50mm ²	50mm ²
200A Terminal block (Lugs)	–	M8 bolt
100A SPSN RCCB	50mm ²	–
100A TPSN RCCB	–	50mm ² (with adaptor fitted)
16-200A F-frame MCCB	–	120mm ²
125A Fuse combination switch	–	M6
Enclosure earth stud	M6 bolt	M8 bolt
Incoming earth terminal	25mm ²	70mm ²
Incoming neutral terminal	50mm ²	70mm ² (125A boards) M8 bolt (200A boards)
Outgoing earth terminals	25mm ²	25mm ²
Outgoing neutral terminals	25mm ²	25mm ²

Transient voltage surge suppressors, general specifications

Description

Parallel configured, hard wire connected, 80kA per phase peak surge current Transient Voltage Surge Suppressor.

Application

Location Categories B and A, medium and low exposure level. General purpose, sensitive, and mission critical loads. Small AC power service entrances (< 200amps), sub and final circuit Memshield 2 MCB distribution boards.

Warranty

10-Year Free Replacement.

Unit Listings

UL1449 Second Edition, UL1283 Filter.

Quality

ISO 9001: 1994 Quality System Certification.
BSI FM 30833.

TVSS Enclosure

IP23 rated steel enclosure.

Mounting

Conduit fitting and multi-point mounting feet.

Connection

Standard products include approx. 450mm factory fitted stranded cable #10 AWG (= 6mm²).

Shipping Weight:

2.2kg.

Technical characteristics, overview, MCBs, RCBOs, RCCBs and fuses

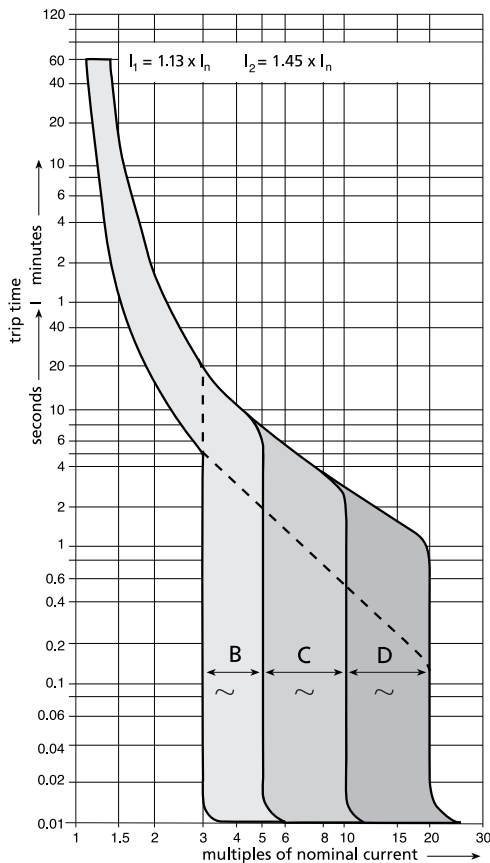
Type standards	MCB IEC60898, IEC60947-2	RCBOs IEC61009	RCCBs SPSN BSEN61008	RCCBs TPSN IEC61008	Fuses BS1361
Breaking Capacity to:					
– IEC 60898 /60947-2 (L-type)	6 kA	6 kA	–	–	–
– IEC 60898 /IEC 60947-2 (H-type)	10 kA	10 kA	–	–	–
– IEC 60947-2 (V-type)	15 kA	15 kA	–	–	–
– BS 1361	–	–	–	–	16 kA
Sensitivities (mA)		10, 30, 100, 100 t.d., 300 t.d.	10, 30, 100, 300, 100 t.d., 300 t.d.	30, 100, 300, 300 t.d.	–
Current Ratings (A) ¹⁾	1,2,4,6,8,10,13,16,20,25,32, 40, 50, 63	1,2,4,6,8,10,13,16,20, 25, 32, 40,50, 63 ²⁾	16,25,32,40,63, 80, 100	40,63,80,100	5,10,15,20,30, 35, 40, 45
Voltage Rating 50/60 Hz (V)	230/400 Vac 24 Vdc (6 kA) to 120 Vdc (4 kA)	230 Vac 110 Vac	230 Vac	230/400 Vac	230 Vac
DIN-rail mounting	Yes	Yes	Yes	Yes	Yes
Tunnel 'box' terminals	Yes	Yes	Yes	Yes	Yes
Cable capacity	25 mm ²	25 mm ²	50 mm ²	35 mm ²	25 mm ²
Terminals suitable for:					
– Stranded copper cable	Top & bottom ³⁾	Top & bottom	Top & bottom	Top & bottom ³⁾	Top & bottom
– Solid copper cable	Top & bottom ³⁾	Top & bottom	Top & bottom	Top & bottom ³⁾	Top & bottom
– Comb busbar (Fork)	Top & bottom ³⁾	Bottom	–	Top & bottom ³⁾	–
– Comb busbar (Pin)	Top & bottom	Bottom	Top & bottom	Top & bottom	Top & bottom

¹⁾ 1, 2, 4, 8 & 13 A ratings 10 kA I_{cu} max.

²⁾ 10 mA only available up to 32 A inclusive.

³⁾ Terminals will clamp cable and fork type comb busbars simultaneously.

Trip curve characteristics, MCBs, trip types B, C and D



Thermal protection:

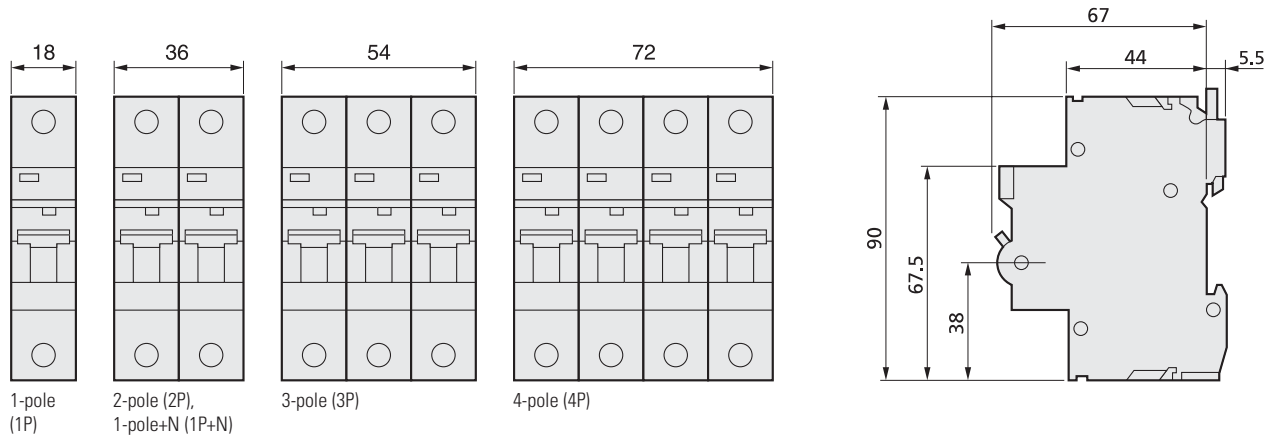
I₁ (1,13 x I_n): MCB is not allowed to trip within one hour.

I₂ (1,45 x I_n): MCB must trip within 1 hour.

Electromagnetic protection:

- Trip type B:
at 3 x I_n MCB does not trip at: t ≥ 0.1s
at 5 x I_n MCB does trip within: t < 0.1s
- Trip type C:
at 5 x I_n MCB does not trip at: t ≥ 0.1s
at 10 x I_n MCB does trip within: t < 0.1s
- Trip type D:
at 10 x I_n MCB does not trip at: t ≥ 0.1s
at 20 x I_n MCB does trip within: t < 0.1s

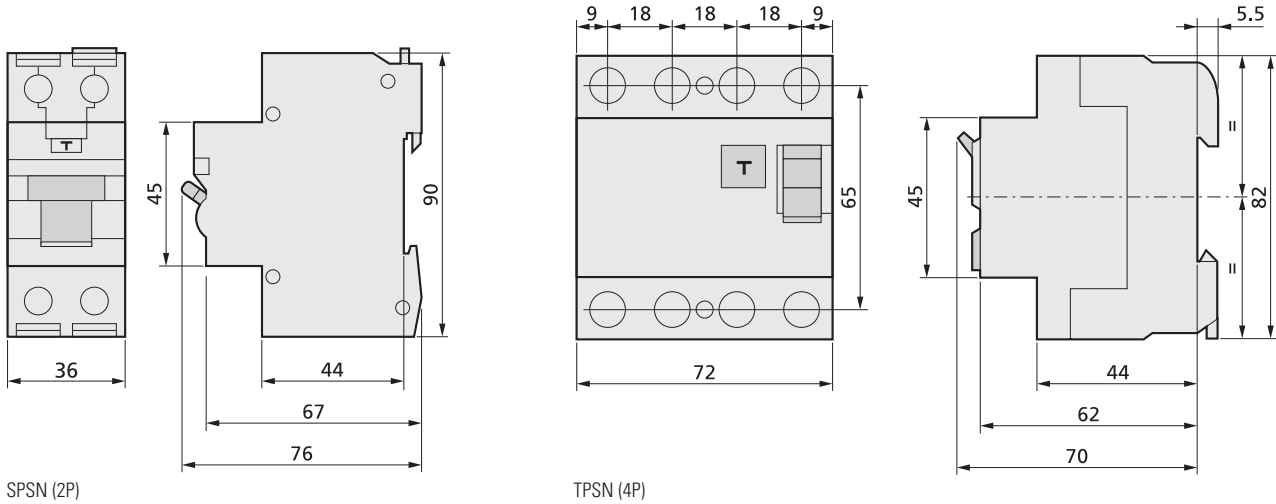
MCB 1P, 2P, 3P & 4P, dimensional drawings



MCB-range, technical characteristics

Type		MCB 6kA	MCB 10kA	MCB 15kA
Standards		IEC 60898, IEC 60947-2	IEC 60898, IEC 60947-2	IEC 60947-2
Rated Current Range	I_n	1–63 A	1–63 A	6–63 A
Poles		1P, 1P+N, 2P, 3P, 4P	1P, 1P+N, 2P, 3P, 4P	1P, 2P, 3P
Rated voltage	U_e	1P, 1P+N 230 Vac 2P, 3P, 4P 230/400 Vac	1P, 1P+N 230 Vac 2P, 3P, 4P 230/400 Vac	2P, 3P 230/400 Vac
Insulation voltage	U_i	500 Vac	500 Vac	500 Vac
Rated voltage max. d.c. 1P		60 Vdc	60 Vdc	60 Vdc
Rated voltage max. d.c. 2P		125 Vdc	125 Vdc	125 Vdc
Minimum operating voltage U_b min.		12 Vac–12 Vdc	12 Vac–12 Vdc	12 Vac–12 Vdc
Rated frequency		50/60 Hz	50/60 Hz	50/60 Hz
Rated breaking capacity to IEC 60898 at 400 Vac	I_{cn}	6 kA	10 kA	–
Rated breaking capacity ultimate to IEC 60947-2 at 400 Vac	I_{cu}	6 kA	10 kA	15 kA
Rated breaking capacity ultimate to IEC 60947-2 at 400 Vac	I_{cs}	3 kA	5 kA	8 kA
Impulse withstand voltage (1.2/50)	U_{imp}	5 kV	5 kV	5 kV
Dielectric test voltage at 50/60Hz for 1 min.		2.5 kV	2.5 kV	2.5 kV
Instantaneous release Type B		3 to 5 x I_n	3 to 5 x I_n	3 to 5 x I_n
Instantaneous release Type C		5 to 10 x I_n	5 to 10 x I_n	5 to 10 x I_n
Instantaneous release Type D		10 to 20 x I_n	10 to 20 x I_n	–
Energy Limiting Class to IEC 60898 ($I_n < 40A$)		3	3	–
Positive contact indication		Red / green flag indicator	Red / green flag indicator	Red / green flag indicator
Electrical life		>10,000 cycles	>10,000 cycles	>10,000 cycles
Mechanical life		>20,000 cycles	>20,000 cycles	>20,000 cycles
Protection degree inside / outside enclosure		IP 20 / IP 40	IP 20 / IP 40	IP 20 / IP 40
Tropicalisation to IEC 60068-2		+55 °C at 95% RH	+55 °C at 95% RH	+55 °C at 95% RH
Thermal reference calibration temperature		40 °C (50 °C option)	40 °C (50 °C option)	40 °C (50 °C option)
Operating temperature range		-25 °C to +55 °C	-25 °C to +55 °C	-25 °C to +55 °C
Cable capacity upper/lower terminals		25 mm ²	25 mm ²	25 mm ²
Maximum terminal torque		2.0 Nm	2.0 Nm	2.0 Nm
Mounting		DIN rail EN 60715 (35 mm)	DIN rail EN 60715 (35 mm)	DIN rail EN 60715 (35 mm)
Pole dimensions H x D x W		90 x 67 x 17.8 mm	90 x 67 x 17.8 mm	90 x 67 x 17.8 mm
Pole weight		140 g	140 g	140 g

RCCB-range, dimensional drawings



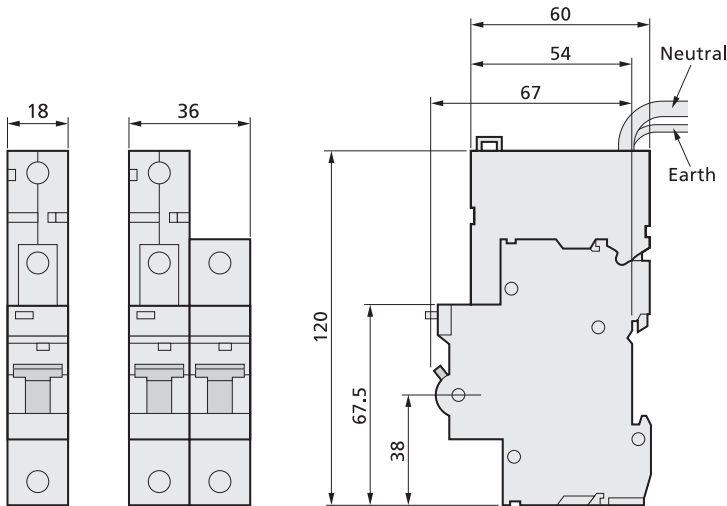
SPSN (2P)

TPSN (4P)

RCCB-range, technical characteristics

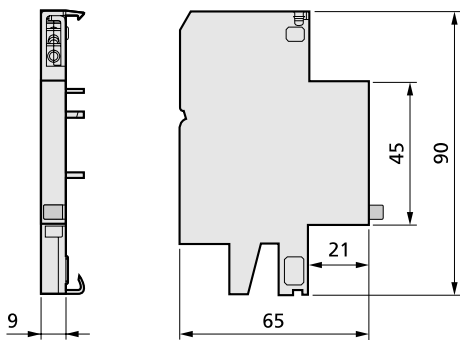
Type		RCCB SPSN	RCCB TPSN
Standards		IEC 61008	IEC 61008
Rated Current Range	I_n	16 A – 100 A	40 A – 100 A
Poles		2	4
Rated voltage	U_n	240 Vac	240 / 415 Vac
Rated frequency		50 / 60 Hz	50 / 60 Hz
Rated residual currents/sensitivity	I_n	10, 30, 100, 300 mA 100 mA, 300 mA time delay	10, 30, 100, 300 mA 300 mA time delay
Tripping range		0.5 – 1.0 x $I_{\Delta n}$	0.5 – 1.0 x $I_{\Delta n}$
Tripping time non-delay type at 1 x $I_{\Delta n}$		0.2 s	0.2 s
Tripping time non-delay type at 5 x $I_{\Delta n}$		0.035 s	0.035 s
Tripping time delay type at 1 x $I_{\Delta n}$		0.3 s	0.3 s
Tripping time delay type at 5 x $I_{\Delta n}$		0.08 s	0.08 s
Insulation voltage	U_i	250 V	440 V
Rated short circuit current		6 kA	6 kA
Rated residual short circuit current		6 kA	6 kA
Short circuit withstand capacity – 100 A fuse gL		10 kA	10 kA
Impulse withstand voltage (1.2/50)	U_{imp}	5 kV	5 kV
Dielectric test voltage at 50/60 Hz for 1 min.		2.5 kV	2.5 kV
Positive contact indication		Red / Green flag indicator	Red / Green flag indicator
Protection degree inside/outside enclosure		IP20 / IP40	IP20 / IP40
Tropicalisation to IEC 60068-2		+55°C at 95% RH	+55°C at 95% RH
Operating temperature range		-5°C to +55°C	-5°C to +55°C
Cable capacity upper/lower terminals		50 mm ²	35 mm ²
Maximum terminal torque		3.5 Nm	3.5 Nm
Mounting		DIN rail EN 60715 (35 mm)	DIN rail EN 60715 (35 mm)
Pole dimensions H x D x W		90 x 67 x 36 mm	82 x 68 x 72 mm

RCBO, dimensional drawings

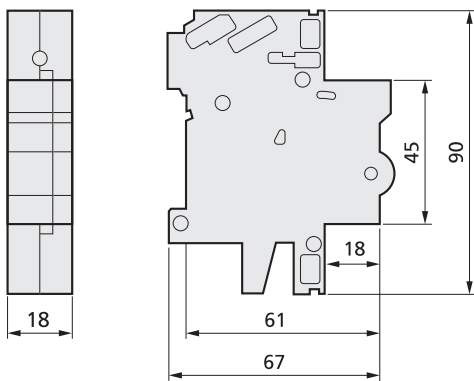


Type	RCBO	
Standard	IEC 61009	
Tripping class	A	
Nominal frequency	50/ 60 Hz	
Maximum ac operating voltage	U_e max	240 / 415 V~
Minimum ac operating voltage	U_e min	100 Vac
Isolator application acc. IEC60947-2	yes	
Impulse withstand voltage	U_{imp}	5 kV
Dielectric rigidity	2.5 kV	
Protection degree (inside/outside enclosure)	IP 20 / IP 40	
Tropicalisation acc. IEC 60068-2	+55 °C at 95%RH	
Operating temperature	-25 °C to +55 °C	
Capacity terminal upper/lower terminals	25 mm ²	
Maximum torque on terminals	2.0 Nm	
Pole dimensions H x D x W	120 x 67 x 18 mm	

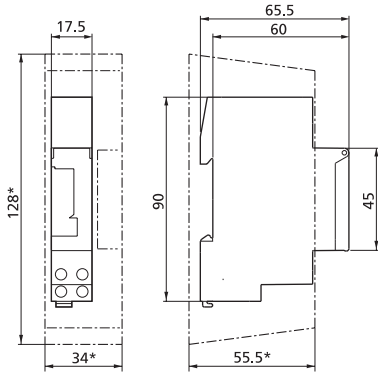
Auxiliary & Alarm contacts, dimensional drawings



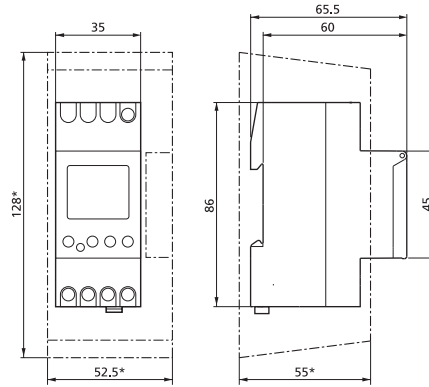
Shunt trips & UVRs, dimensional drawings



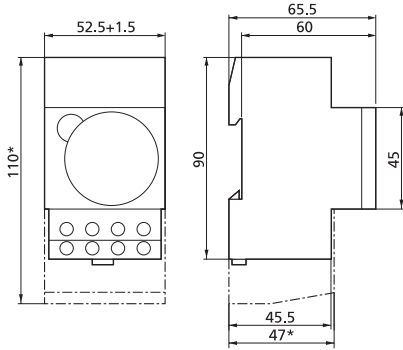
Time switches, dimensional drawings



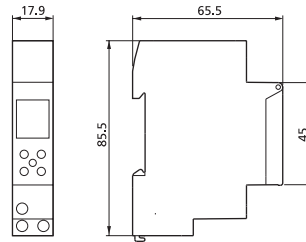
Analogue day and week Timers, type TAD1NCS, TAD1S and TAW1S.
*Dimensions are applicable when using terminal covers.



Digital week Timers, types TDW1, TDW2 and TDW2E.
*Dimensions are applicable when using terminal covers.

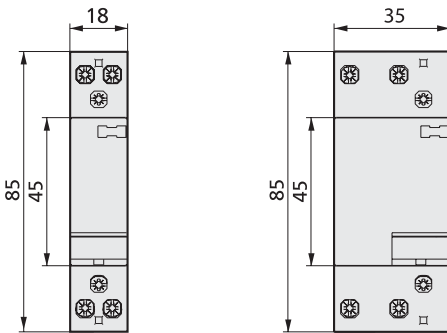


Analogue day and week Timers, types TAD1NC, TAD1 and TAW 1.
*Dimensions are applicable when using terminal covers."

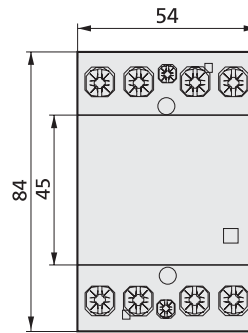


Digital week Timers, type TDW1S
*Dimensions are applicable when using terminal covers

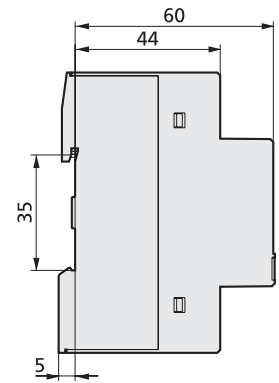
Contactors type CR, dimensional drawings



Contactors, type CR20, CR25



Contactors, type CR40, CR63

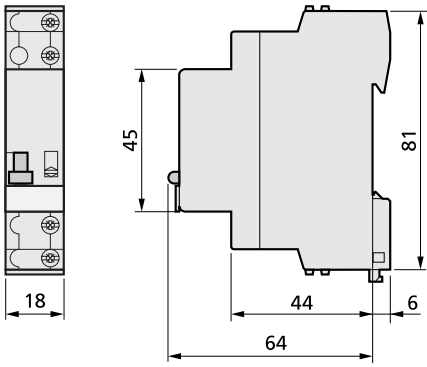


Contactors type CR, technical characteristics

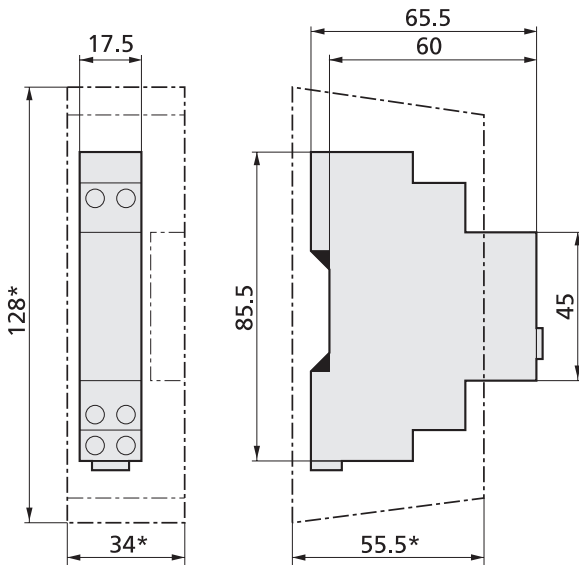
General	Contactors			
	20A	25A	40A	63A
Standards	IEC60947-4-1	IEC60947-4-1	IEC60947-4-1	IEC60947-4-1
Nominal operating voltage 1-phase	Ue 1-ph. 230 V	230 V	230 V	230 V
Nominal operating voltage 3-phase	Ue 3-ph. 400 V	400 V	400 V	400 V
Mechanical endurance (switching cycles)	3.000.000	3.000.000	3.000.000	3.000.000
Protection class (acc. DIN 40 050, IEC 529)	IP20	IP20	IP20	IP20
Permissible ambient temperature	-5...+55 °C	-5...+55 °C	-5...+40 °C	-5...+55 °C

AC1/AC7a Rated operational current	Ie	Contactors			
		20A	25A	40A	63A
AC1/AC7a Operational power rating at Ue	= 230 Vac	Pmax	4 kW	9 kW	16 kW
AC1/AC7a Operational power rating at Ue	= 400 Vac	Pmax		16 kW	26 kW
AC3/AC7b Operational power rating at Ue	= 230 Vac	Pmax	1,3 kW *1	2,2 kW	5,5 kW
AC3/AC7b Operational power rating at Ue	= 400 Vac	Pmax	4 kW	11 kW	15 kW

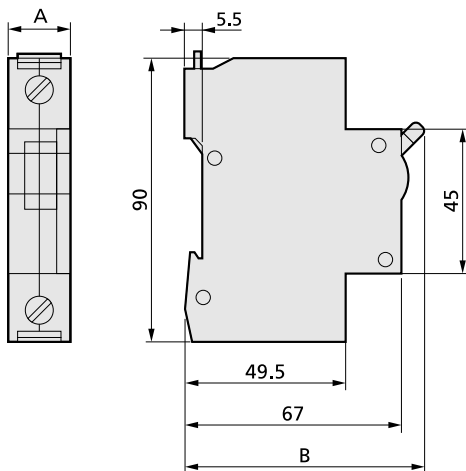
Impulse switches / relays, dimensional drawings



Staircase timer - standard version, dimensional drawings



Switch-disconnectors and terminal blocks



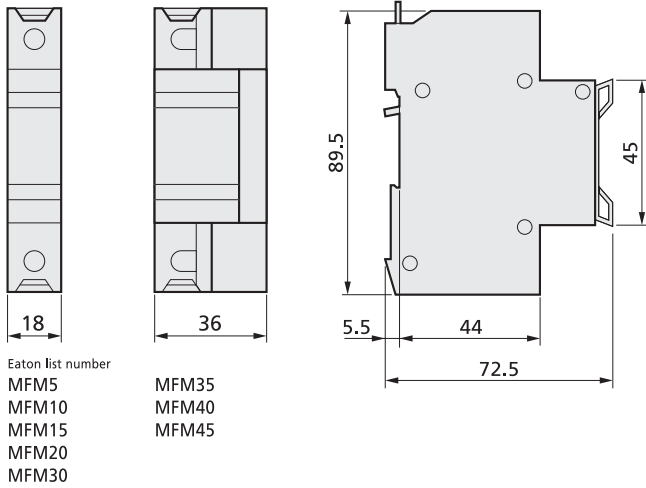
■ Switch-disconnectors

Eaton list number	A	B
MS1001	18	76
MS1001N	36	76
MS1002	36	76
MS1003	54	76
MS1004	72	76

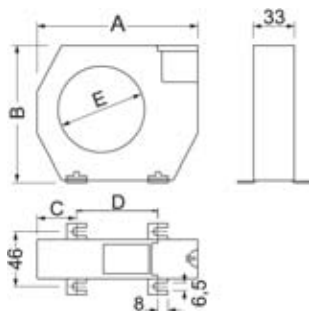
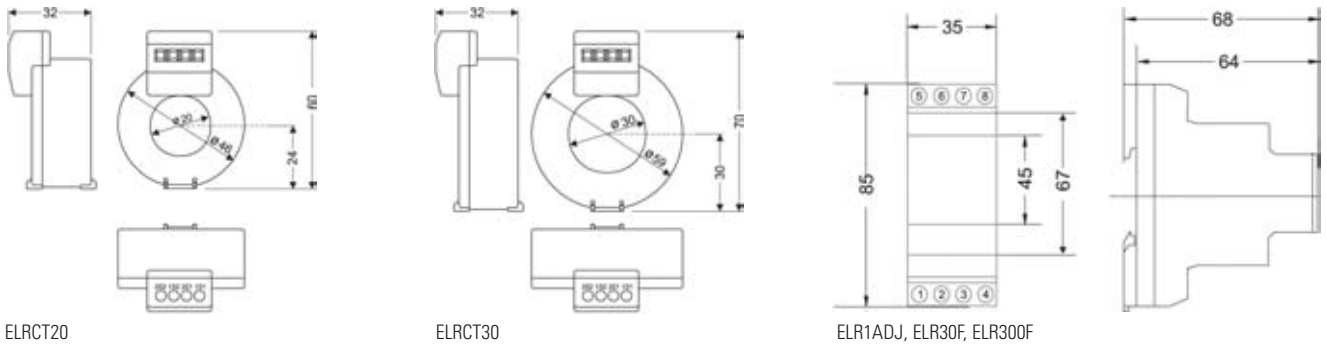
■ Terminal blocks

Eaton list number	A	B
MBT1001	18	67
MBT1002	36	67
MBT1003	54	67

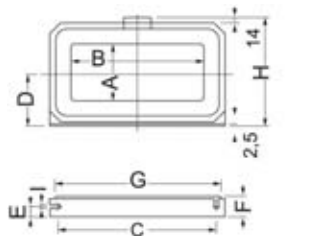
Fuse carriers, type HRC, dimensional drawings



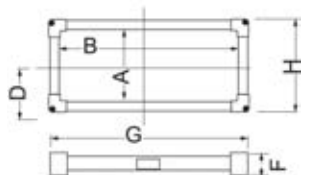
Earth Leakage Relays and CTs, dimensional drawings



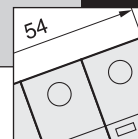
Type	A	B	C	D	E
ELRCT35	100	79	26	48.5	35
ELRCT70	130	110	32	66	70
ELRCT105	170	146	38	94	105
ELRCT140	220	196	48.5	123	140
ELRCT210	299	284	69	161	210



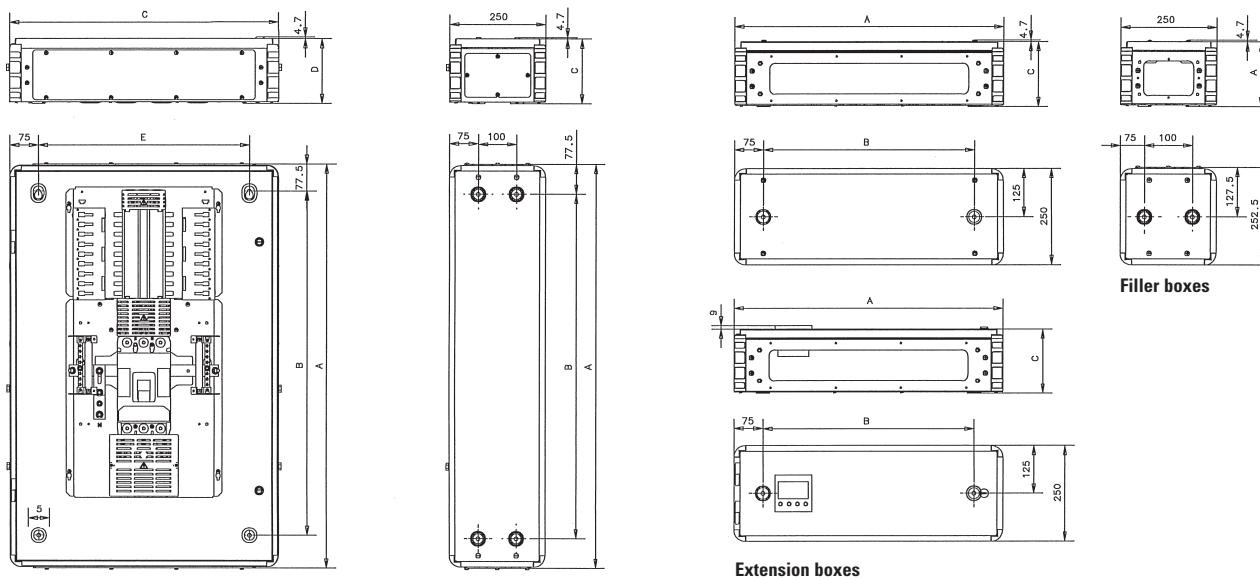
Type	A	B	C	D	E	F	G	H	I
ELRCT70-175	70	175	225	85	22	46	261	176	7.5
ELRCT115-305	115	305	360	116	25	55	402	240	8
ELRCT150-350	150	350	415	140	28	55	460	285	8



Type	A	B	C	D	E	F	G	H	I
ELRCT200-500	200	500	-	120	-	40	556	239	-



Panelboard dimensional drawings



Panelboards

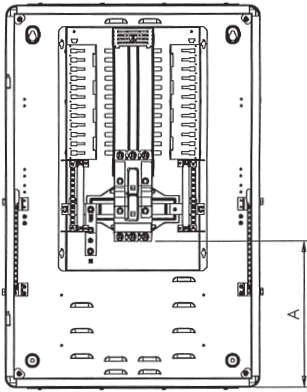
Extension boxes

Filler boxes

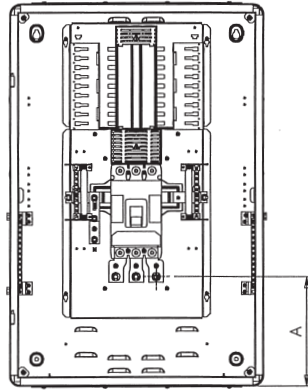
Panelboard dimensions

Description	Eaton list number	Dimensions (mm)				
		A	B	C	D	E
Extension boxes	PBEGEX250	700	550	169	—	—
	PBEX250	850	700	209	—	—
Filler boxes	PBEGSX250	169	—	—	—	—
	PBSX250	209	—	—	—	—
Panelboards	PBEG325	455	300	700	169	550
	PBEG625	905	750	700	169	550
	PBEG825	1055	900	700	169	550
	PBEG1225	1155	1000	700	169	550
	PBEG640	1055	900	700	169	550
	PBEG1240	1305	1150	700	169	550
	PBJG640	1405	1250	850	209	700
	PBJG1240	1605	1450	850	209	700
	PBJG1840	1805	1650	850	209	700
	PBJG863	1405	1250	850	209	700
	PBJG1263	1605	1450	850	209	700
	PBJG1863	1805	1650	850	209	700
	PBLG880	1605	1450	850	209	700
	PBLG1280	1805	1650	850	209	700
	Side cable boxes	PBEGSX900	905	750	169	—
PBEGSX1050		1055	900	169	—	—
PBEGSX1150		1155	1000	169	—	—
PBEGSX1300		1305	1150	169	—	—
PBJGSX1400		1405	1250	209	—	—
PBSX1600		1605	1450	209	—	—
PBSX1800		1805	1650	209	—	—
Meter packs	PBEGMPA25	700	550	169	—	—
	PBEGMPD	700	550	169	—	—
	PBEGMPA40	700	550	169	—	—
	PBJGMPA25	850	700	209	—	—
	PBJGMPD	850	700	209	—	—
	PBJGMPA40	850	700	209	—	—
PBJGMPA66	850	700	209	—	—	

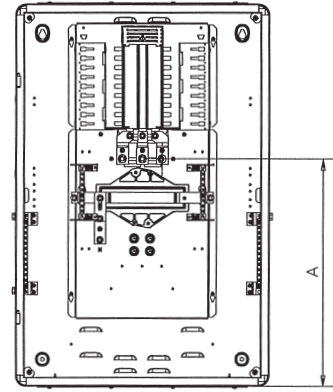
Panelboard Cable Space dimensional drawings



250A Frame size Incomer



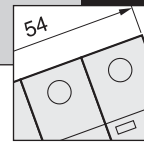
630A/800A Frame size Incomer



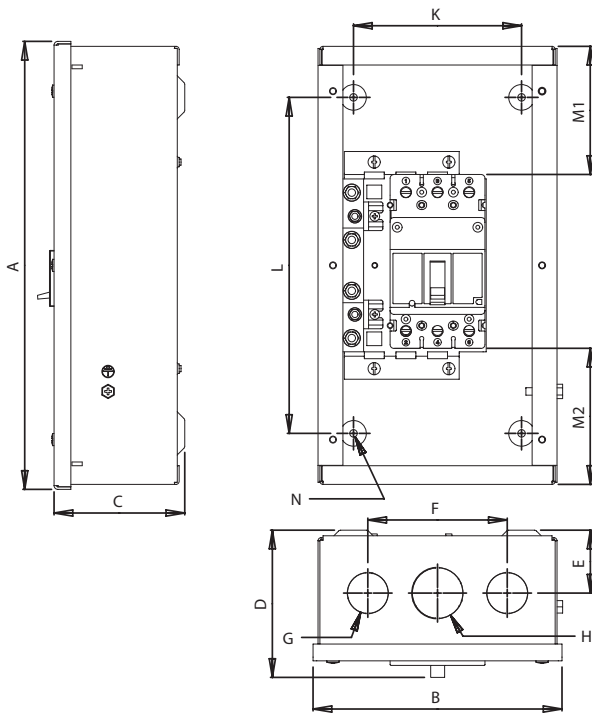
Lug Incomer

Panelboard Cable Space dimensions

Panelboard	Incomer	Eaton list number	Dimensions A (mm)		
Types 1 & 2	250A Frame size	PBEG325	—		
		PBEG625	327		
		PBEG825	401		
		PBEG1225	347		
	630A/800A Frame size	PBEG640+PBEGLG40	300		
		PBEG1240+PBEGLG40	318		
	Lug	PBEG640+PB EGL40	624		
		PBEG1240+PB EGL40	642		
		Types 3, 4 & 5	250A Frame size	PBJG640+PBJJG40	689
				PBJG1240+PBJJG40	657
630A/800A Frame size	PBJG1840+PBJJG40		585		
	PBJG640+PBJJGL40		465		
	PBJG1240+PBJJGL40		433		
	PBJG1840+PBJJGL40		361		
	PBJG863+PBJJGL63		347		
	PBJG1263+PBJJGL63		393		
Lug	PBJG1863+PBJJGL63		361		
	PBJG640+PBJJGL40		844		
	PBJG1240+PBJJGL40	814			
	PBJG1840+PBJJGL40	741			
	PBJG863+PBJJGL63	727			
	PBJG1263+PBJJGL63	773			
Type 6	250A Frame size	PBJG1863+PBJJGL63	741		
		PBLG880+PBLGLW80	484		
	630A/800A Frame size	PBLG1280+PBLGLW80	484		
		PBLG880+PBJJGL63	905		
		PBLG1280+PBJJGL63	905		



Dimensional information



Type dim	GEE1...FFGE.. GEE4...FFGE	GJS3...AAGE GJS4...AAGE	GJS4...AAGER ¹	GLS3...AAGE GLS4...AAGE
A	360	590	700	1000
B	200	260	260	400
C	105	119	119	150
D	120	146	146	184
E	50.5	56.5	56.5	–
F	112	–	–	–
G	33dia.	–	–	–
H	41dia.	41dia/51dia	41dia/51dia	RGP*
K	135	170	170	310
L	270	500	610	900
N	6dia.	6dia.	6dia.	6dia.
M1	103	205	202	363
M2	109	198	202	372
Neutral stud	M6	M8	–	M12
Earth stud	M6	M8	M8	M10

¹RCD fitted

*Removable gland plate

Cabling information

MCCB frame	Rating (A)	Max Cable Size
Series G E-frame sizes	63A–125A	70mm ²
Series G J-frame sizes	100A–250A	150mm ²
Series G L-frame size	400A	240mm ²
Series G L-frame size	630A	2 x 240mm ²

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