

Residential and
light commercial



invicta

panelboards

:hager

Your simple energy distribution solution

As an industry leader in power distribution, we strive to create innovative products that make installations faster and more cost effective.

Developed as an optimised solution for small to medium commercial installations and large home projects; our range of invicta panelboards offer simple and efficient possibilities for energy distribution in your commercial projects.





Available in 24, 36, 48, 60 & 72 pole and compatible with the onekombo 6kA range of modular protection devices, our invicta panelboard range is ideal for the large home, light commercial or retail applications.

Our onekombo single module RCBO range leads to safety and simplicity: offering a breaking capacity of 6kA, type A performance and a neutral fly lead, they can be swiftly mounted alongside all other modular protection devices in invicta panelboards.

For complete protection against touching live parts once energised, safety caps and safety pole fillers (which remain with chassis after removal of escutcheon) are provided in our invicta panelboards to maintain IP2x.

Single module RCBOs can be swiftly mounted in invicta panelboards.



invicta panelboards

Combined with our 6kA MCBs and RCBOs, we provide an economical solution for the small jobs that serve the basic needs of the end user. The invicta range comes fitted with 2 x 8 poles of DIN space for mounting additional modular devices such as emergency lighting test kits, contactors, surge protection or sub-metering devices.

If more DIN space is required, we have an optional extension box which provides an additional 2 x 18 poles. Together with other features such as a reversible door, large connection points for earth and neutral links, and ease of fixing to the wall; invicta is truly the benchmark for multi-usage panelboards.



The advantages for you:

Chassis designed to take 6kA MCB and onekombo range of single module RCBOs

Split Neutral & Earth bars with M8 connection studs

2 x 8 poles of DIN space ideal for mounting contactors or emergency lighting test kits

Five keyhole shaped mounting holes make it easy to mark the wall prior to fixing, giving a faster install

Time saving and convenient removable / reversible door

Flush key lockable handle with open/close indication

Technical data:

| | |
|---|----------------------|
| Chassis sizes | 24, 36 & 48, 60 & 72 |
| Incomer switches | 160A, 250A |
| Standards | AS/NZS 61439 |
| Rated Short circuit withstand current (Icw) | 20kA/0.2s 40kA Peak |
| Compatible devices | 6kA RCBOs and MCBs |
| Accessories | 36P Extension Box |

Expert tips



01

Fitted with a strong, 160A or 250A main isolator, providing higher robustness in the connection terminals.



02

Incomer link kits provide options for the use of an MCB as the main incomer where the application requires protection of circuits against overloads and short circuits.



03

Additional neutral link provides greater flexibility and accessibility during installation. Neutral link covers provide additional IP2x protection.



04

Larger connection points for Neutral and Earth links makes the Invicta board easily accessible during and after installation.



05

The chassis has been designed to take Hager's onekombo range of 6kA single module RCBOs and 6kA MCBs.



06

The 16 poles of additional DIN space in the top of the board makes it easy to accommodate extra devices.



07

Cable tie access points allow easy cable management within the enclosure making it neat and tidy.



08

The additional 36 poles of DIN rail available within the optional extension box can be used for mounting modular energy control and indication devices.

Description

invicta panelboards have been developed as an optimised solution for small to medium commercial installations and large home projects.

Features

- Available in 24, 36, 48, 60 & 72 poles
- 1.2mm tough powdercoated galvanised steel construction
- Powdercoated RAL7035 (light grey)
- IP30
- Complete with either a 160A or 250A main isolator switch prefitted
- Split earth and neutral links for easy cabling
- Fully type tested chassis
- 2 x 8 pole DIN space each side of main incomer
- Lockable door (CL001)
- Safety pole fillers remain with chassis when escutcheon is removed
- Circuit identification card
- Positive MCB alignment system



JVC2400S16TW

invicta panelboards

| Description | Characteristics | Cat. ref |
|-----------------------|-----------------|---------------------|
| With 160A main switch | 24 pole chassis | JVC2400S16TW |
| | 36 pole chassis | JVC3600S16TW |
| | 48 pole chassis | JVC4800S16TW |
| | 60 pole chassis | JVC6000S16TW |
| | 72 pole chassis | JVC7200S16TW |
| With 250A main switch | 24 pole chassis | JVC2400S25TW |
| | 36 pole chassis | JVC3600S25TW |
| | 48 pole chassis | JVC4800S25TW |
| | 60 pole chassis | JVC6000S25TW |
| | 72 pole chassis | JVC7200S25TW |



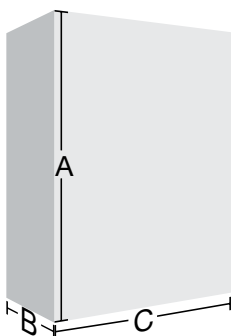
JVC0EXTDW

Extension boxes

| Description | Characteristics | Cat. ref |
|---|-----------------|------------------|
| Supplied without gland plates. Gland plates only required if mounting as a stand alone. | 2 row 18 DIN | JVC0EXTDW |

Accessories

| Description | Characteristics | Width | Cat. ref |
|----------------------------|----------------------|--------|------------------|
| Incomer link kit | For 3Ø 80-125A MCB | 4.5mod | JVC0M12 |
| | For 3Ø up to 63A MCB | 3 mod | JVC0M06 |
| MEN kit | | | JVC0MEN |
| Gland plates | | | JVC0GPL |
| Safety pole fillers (10Pk) | | | JVC0PFL |
| Door lock and key (CL001) | | | JVC0LCK |
| Spare keys (CL001) | 2 keys | | JVC0LSK |
| Document holder | | | JK2X007AU |



| Dimensions (mm) | A | B | C |
|----------------------|------|-----|-----|
| 24 pole panelboard | 800 | 135 | 480 |
| 36 pole panelboard | 900 | 135 | 480 |
| 48 pole panelboard | 1000 | 135 | 480 |
| 60 pole panelboard | 1128 | 135 | 480 |
| 72 pole panelboard | 1235 | 135 | 480 |
| Extension box | | | |
| Dimensions (mm) | A | B | C |
| JVC0EXTDW | 350 | 135 | 480 |

Description

Compact combination devices which provide overcurrent protection & earth leakage protection. The Type A devices, are available in various current ratings from 6A - 32A.

Features

- IEC 61009.1 & AS/NZS 61009.1
- Trip free mechanisms

1 mod connection capacity

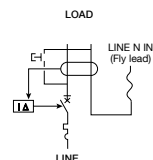
- 10mm² flexible
- 16mm² rigid

Accessories

- Toggle locking device - MZN175



RCBO 1P 6kA Type A



| Current rating (A) | Width | Residual current I _{dn} | Cat ref. |
|--------------------|-------|----------------------------------|----------------|
| 6A | 1 mod | 30mA | ADC306T |
| 10A | 1 mod | 30mA | ADC310T |
| 13A | 1 mod | 30mA | ADC313T |
| 16A | 1 mod | 30mA | ADC316T |
| 20A | 1 mod | 30mA | ADC320T |
| 25A | 1 mod | 30mA | ADC325T |
| 32A | 1 mod | 30mA | ADC332T |



ADC320T

Description

Protection and control of circuits against overloads and short-circuits by isolating the circuit according to AS/NZS 3000:2018. The colour of the toggle on the MSNx63R gives a differentiation when used as a main switch device.

Technical data

- AS/NZS 60898
- Tripping curve - 'C' magnetic setting between 5 and 10In
- Breaking capacity: 6,000A
- Voltage rating: 240/415V AC
Not for use on DC
- Current rating: 6 to 63A
- Bi-connect terminals enable supply from either cables in the cage or busbars in the slot.

Connection capacity

- 25mm² rigid
- 16mm² flexible



Accessories for MSN3xx

- LZ060, MZN175, MZ201, MZ202, MZ203, MZ204, MZ206, MZN120, MZN121, Bx163T



MSN163 MSN163R

Single pole



| Current Rating (A) | Width | Pack Qty | Cat ref. |
|--------------------|-------|----------|----------------|
| 6 | 1 mod | 12 | MSN106 |
| 10 | 1 mod | 12 | MSN110 |
| 13 | 1 mod | 12 | MSN113 |
| 16 | 1 mod | 12 | MSN116 |
| 20 | 1 mod | 12 | MSN120 |
| 25 | 1 mod | 12 | MSN125 |
| 32 | 1 mod | 12 | MSN132 |
| 40 | 1 mod | 12 | MSN140 |
| 50 | 1 mod | 12 | MSN150 |
| 63 | 1 mod | 12 | MSN163 |
| 63 | 1 mod | 12 | MSN163R |



MSN220 MSN263R

Double pole

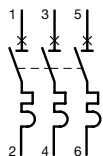


| Current Rating (A) | Width | Pack Qty | Cat ref. |
|--------------------|-------|----------|----------------|
| 6 | 2 mod | 6 | MSN206 |
| 10 | 2 mod | 6 | MSN210 |
| 16 | 2 mod | 6 | MSN216 |
| 20 | 2 mod | 6 | MSN220 |
| 25 | 2 mod | 6 | MSN225 |
| 32 | 2 mod | 6 | MSN232 |
| 40 | 2 mod | 6 | MSN240 |
| 50 | 2 mod | 6 | MSN250 |
| 63 | 2 mod | 6 | MSN263 |
| 63 | 2 mod | 6 | MSN263R |



MSN320

Triple pole



| Current Rating (A) | Width | Pack Qty | Cat ref. |
|--------------------|-------|----------|----------------|
| 6 | 3 mod | 4 | MSN306 |
| 10 | 3 mod | 4 | MSN310 |
| 16 | 3 mod | 4 | MSN316 |
| 20 | 3 mod | 4 | MSN320 |
| 25 | 3 mod | 4 | MSN325 |
| 32 | 3 mod | 4 | MSN332 |
| 40 | 3 mod | 4 | MSN340 |
| 50 | 3 mod | 4 | MSN350 |
| 63 | 3 mod | 4 | MSN363 |
| 63 | 3 mod | 4 | MSN363R |



MSN363R

Description

Protection and control of circuits against overloads and short-circuits by isolating the circuit according to AS/NZS 3000:2018. The colour of the toggle on the MDNx63R gives a differentiation when used as a service protection device.

Technical data

- AS/NZS 60898
- Tripping curve - 'D' magnetic setting between 10 and 20In
- Breaking capacity: 6,000A
- Voltage rating: 240/415V AC
Not for use on DC
- Current rating: 6 to 63A
- Bi-connect terminals enable supply from either cables in the cage or busbars in the slot.

Connection capacity

- 25mm² rigid
- 16mm² flexible

Accessories for MDNxxx

- LZ060, MZN175, MZ201, MZ202, MZ203, MZ204, MZ206, MZN120, MZN121, Bx163T



Single pole



| Current Rating (A) | Width | Pack Qty | Cat ref. |
|--------------------|-------|----------|----------------|
| 6 | 1 mod | 12 | MDN106P |
| 10 | 1 mod | 12 | MDN110P |
| 16 | 1 mod | 12 | MDN116P |
| 20 | 1 mod | 12 | MDN120P |
| 25 | 1 mod | 12 | MDN125P |
| 32 | 1 mod | 12 | MDN132P |
| 40 | 1 mod | 12 | MDN140P |
| 50 | 1 mod | 12 | MDN150P |
| 63 | 1 mod | 12 | MDN163P |
| 63 | 1 mod | 12 | MDN163R |



MDN116P MDN163R

Double pole

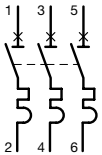


| Current Rating (A) | Width | Pack Qty | Cat ref. |
|--------------------|-------|----------|----------------|
| 6 | 2 mod | 6 | MDN206P |
| 10 | 2 mod | 6 | MDN210P |
| 16 | 2 mod | 6 | MDN216P |
| 20 | 2 mod | 6 | MDN220P |
| 25 | 2 mod | 6 | MDN225P |
| 32 | 2 mod | 6 | MDN232P |
| 40 | 2 mod | 6 | MDN240P |
| 50 | 2 mod | 6 | MDN250P |
| 63 | 2 mod | 6 | MDN263P |
| 63 | 2 mod | 6 | MDN263R |



MDN232P MDN263R

Triple pole



| Current Rating (A) | Width | Pack Qty | Cat ref. |
|--------------------|-------|----------|----------------|
| 6 | 3 mod | 4 | MDN306P |
| 10 | 3 mod | 4 | MDN310P |
| 16 | 3 mod | 4 | MDN316P |
| 20 | 3 mod | 4 | MDN320P |
| 25 | 3 mod | 4 | MDN325P |
| 32 | 3 mod | 4 | MDN332P |
| 40 | 3 mod | 4 | MDN340P |
| 50 | 3 mod | 4 | MDN350P |
| 63 | 3 mod | 4 | MDN363P |
| 63 | 3 mod | 4 | MDN363R |



MDN316P



MDN363R

Modular protection devices

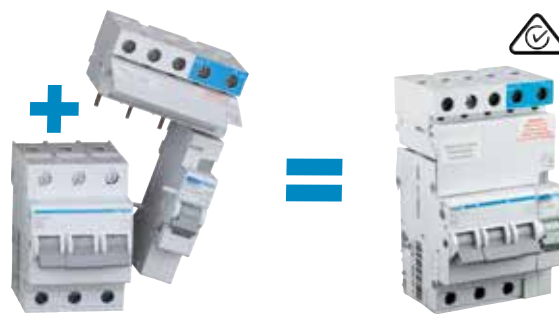
One module RCD Add-On Block for 3P MCBs

Features

The compact one module wide Add-On Block (AOB) can be used in combination with any Hager 3P MCB up to 63A. The one module RCD Add-On Block + MCB combinations suit all Hager chassis boards including the performa series and invicta panelboards. It is the most compact '3P+N RCBO' for chassis boards. The RCD Add-On Block + MCB provides the protective characteristics of both devices, thereby protecting the panelboards entire circuit and removing the need to wire between

DIN mounted RCD & MCB. This results in a significant reduction of time, labour & the size & cost of integrated RCD socket outlets. The 'Type A' Add-On Block gives the added protection against any 'pulsating DC component' generating from such loads as; power tools, motor speed controllers etc.

Conforms with IEC 61008-1 and AS/NZS 61008.1 when used with a Hager MCB.



3P MCB + RCD ADD-ON BLOCK

3P+N RCBO

One Module Add-On Block

| Description | Residual current I _{dn} | Cat ref. |
|----------------------------------|----------------------------------|---------------|
| 3 phase earth leakage protection | 30mA | BD163T |
| Up to 63A | 100mA | BE163T |
| Type A | 300mA | BF163T |



BD163T

Panelboard solutions

invicta panelboards



Developed as an optimised solution for small to medium commercial installations and large home projects. Available in 24, 36, 48, 60 and 72 pole.

onekombo

ADC3xxT, MSNxxxx, MDNxxxx



Hager's onekombo RCBO range offers a breaking capacity of 6kA performance, type A and can be swiftly mounted with all other modular protection devices in invicta panelboards.

Add-On Block

Bx163T



The compact one module wide Add-On Block (AOB) can be used in combination with any Hager 3P MCB up to 63A. It is the most compact '3P+N RCBO' for chassis boards.

performa™ panelboards



Ideal for multi-residential, commercial and industrial applications. Available in 24 to 96 pole, with X15 orange colour and other options as set out below. More than 500 variations assembled in Australia for quick delivery. Also available as bottom fed.

Protection Devices

AxA1, Ax1, MSNxxxx, MDNxxxx, NDNxxxx, NTxxxx, HMxxxxT*



Our commercial single module RCBO range is available in 6kA (ADA1) or 10kA (AD1) breaking capacity. Both are type A and come with a functional earth lead.

**HMxxxxT is for elite 400 only*

Add-On Block

Bx163T



The compact one module wide Add-On Block (AOB) can be used in combination with any Hager 3P MCB up to 63A. It is the most compact '3P+N RCBO' for chassis boards.

| | apex | apex PLUS | elite | elite 400 |
|---------------------------|------|-----------|-------|-----------|
| IP rating | IP43 | IP43 | IP66 | IP66 |
| 24 pole of additional DIN | ✓ | ✓ | ✓ | ✓ |
| Split chassis option | | ✓ | ✓ | |
| Stainless steel option | | | ✓ | ✓ |
| Hybrid chassis option | | | | ✓ |



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