Residential and light commercial



invicta panelboards



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.



06

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

05

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



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

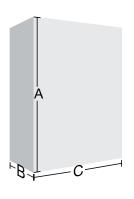


Extension boxes

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



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
Door lock and key (92268)			JVC92268
Spare keys (CL001)	2 keys		JVC0LSK
Document holder			JK2X007AU



Dimensions (mm)	Α	В	С
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)	Α	В	С
JVC0EXTDW	350	135	480



RCBOs - 6kA Type A 'C' and 'D' curve

:hager

Description

Compact combination devices which provide overcurrent protection & earth leakage protection. The Type A devices, with a switched neutral, are available in various current ratings from 6A - 40A. The 1 module RCBO is specifically designed for DIN rail enclosures but can also be used in invicta panelboards. It is supplied with a 1 metre long neutral-in fly lead.

Features

- IEC 61009.1 & AS/NZS 61009.1
- Fault indication window
- ACC9xxT is Type I to comply with AS/NZS 3190 requirements, suitable for patient areas.
- Bi-connect terminals enable supply from either cables in the cage or busbars in the slot.

1 mod connection capacity

- 10mm² flexible
- 16mm² rigid

2 mod connection capacity

- 16mm² flexible
- 25mm² rigid

Accessories

- Toggle locking device - MZN175

Technical information:

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RCBO 1P+N 6kA C curve



Current rating (A)	Residual current Idn	Width		Cat ref.
6A	30mA	1 mod	× ADC306T	→ ★ ADC906T
10A	30mA	1 mod	× ADC310T	→ ★ ADC910T
13A	30mA	1 mod	× ADC313T	→ ★ ADC913T
16A	30mA	1 mod	× ADC316T	→ ★ ADC916T
20A	30mA	1 mod	× ADC320T	→ ★ ADC920T
25A	30mA	1 mod	× ADC325T	→ ★ ADC925T
32A	30mA	1 mod	× ADC332T	→ ★ ADC932T
6A	10mA	1 mod		★ ACC906T
10A	10mA	1 mod		★ ACC910T
13A	10mA	1 mod		★ ACC913T
16A	10mA	1 mod		★ ACC916T
20A	10mA	1 mod		★ ACC920T
25A	10mA	1 mod		★ ACC925T
32A	10mA	1 mod		★ ACC932T



ADC920T

RCBO 1P+N 6kA D curve



Current rating (A)	Residual current Idn	Width	Cat ref.
6A	30mA	1 mod	★ ADD906T
10A	30mA	1 mod	★ ADD910T
13A	30mA	1 mod	★ ADD913T
16A	30mA	1 mod	★ ADD916T
20A	30mA	1 mod	★ ADD920T
25A	30mA	1 mod	★ ADD925T



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ADD920T

Subject to technical modification



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 10ln
- Breaking capacity: 6,000A Voltage rating: 240/415V AC Not for use on DC
- Current rating: 6 to 63ABi-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





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



MSN363R

Tri	ple	pole
1	3	5
\ <u>*</u>	\ <u>*</u>	_*
7	7	<u> </u>
5	5	5
2	4	6

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





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 20ln
- 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



Pack Qty	Width	Current Rating (A)
12	1 mod	6
12	1 mod	10
12	1 mod	16
12	1 mod	20
12	1 mod	25
12	1 mod	32
12	1 mod	40
12	1 mod	50
12	1 mod	63
12	1 mod	63
	12 12 12 12 12 12 12 12 12 12 12	1 mod 12



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







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 devicesOne module RCD Add-On Block for 3P MCBs

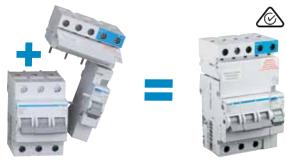


Features

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 Idn	Cat ref.
3 phase earth leakage protection Up to 63A Type A	30mA	BD163T
	100mA	BE163T
	300mA	BF163T



BD163T

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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 ADC9xxT, 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



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



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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