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Dear Friends and Partners,

As you have certainly noticed, this catalogue has a new, changed appearance. – Just as our new representation, the Hager brand has developed considerably.

Since years, Hager has been successfully present at the market of worldwide. Highest quality, reliability, good customer relations and a high degree of innovation are key features of the Hager brand.

Our range of products has been vastly enlarged: With us you can obtain everything from one source, from energy distribution, cable management and building automation, to wiring accessories and safety and security systems.

As a specialist, we provide you with a full-range supply of solutions for residential and commercial buildings.

The brands of Hager and Tehalit were combined to form the new Hager brand. – A complete range of products and services to guarantee electrical installations, easy to install while providing a high degree of safety.

Hager also stands for sustainability. We accept our responsibility and contribute actively in the protection of resources. These aspects are key features for all our innovations. This line of energy saving is applied in all production processes and applies to all our products in general, which contribute to save energy during their entire product life.

Responsibility, openness and a focus on the future, these features are reflected in our new brand representation. Clarity, simplicity, a close customer relation and innovation are the old and new values of the Hager brand.

In this spirit, we have created this catalogue as a practical tool for your own individual use. – Please look and see for yourself.

Yours sincerely

Daniel Hager



The partner for smart solutions you can trust

Hager: a brand meeting your expectations

Hager is a full-range supplier of electrical installation systems for building, residential and commercial properties. For decades, Hager has been synonymous with an extensive and complete offering. Highest quality, cutting-edge products, modularity, ease of installation, ease of use, excellent service and sophisticated design are the features that distinguish Hager.

As a specialist in

- power distribution,
- cable management and room connection systems
- switch programmes and smart building automation as well as safety technology such as alarm systems, smoke detectors and motion detectors

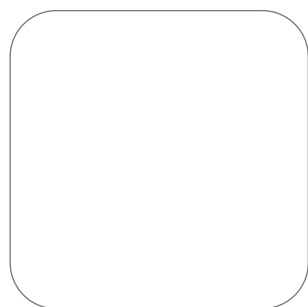
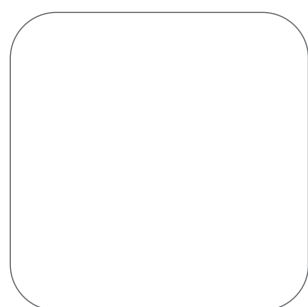
Hager the supplier for professionals – is a synonym for top-quality and innovative technology, as well as good customer relations and reliability. All of which make Hager the partner for smart solutions, you can trust.

New ideas for the customers' benefit

Innovations and the systematic enhancement of the products and systems are key features of the Hager brand. It has always been our goal to use new designs and improvements to stay ahead of developments.

The use of innovations and new technologies at Hager is always customer-driven. Every year, Hager evaluates thousands of customer contacts, resulting in detailed knowledge of its customers' needs in order to work efficiently and successfully. Based on this knowledge, Hager develops the innovative solutions that are so characteristic for the Hager brand. Ease of installation, ease of use, intuitive user interfaces, modularity and durability are brand values that guarantee highest quality throughout in Hager systems.

80 per cent of Hager products and systems are younger than five years. This high degree of innovation enables the users to meet various new challenges effectively. The strong demand for innovations and enhancements is a good indicator for the customer-oriented policy of the Hager brand also resulting in a high turnover at wholesalers.



A flourishing group

The Hager Group is a leading supplier of solutions and services of electrical installation systems for residential and commercial properties as well as industrial applications.

Across the world, the Hager Group has 30 production sites in 12 countries. The marketing presence in 55 countries is supported by more than 20,000 selling points of our wholesale partners. As a global player, the company has about 10,000 employees, and a turnover exceeding 1.37 billion Euro in 2008. Today, the Hager Group offers more than 74,000 references.

Shared strong values such as professionalism, team spirit, customer orientation, innovation, loyalty and entrepreneurial activity unite the employees throughout the Hager Group.

The business is owned and run by members of the Hager family. Since 2007, the Hager Group has been a European society (SE Societas European, emphasizing on the one hand its cultural diversity and on the other hand its European grounding.

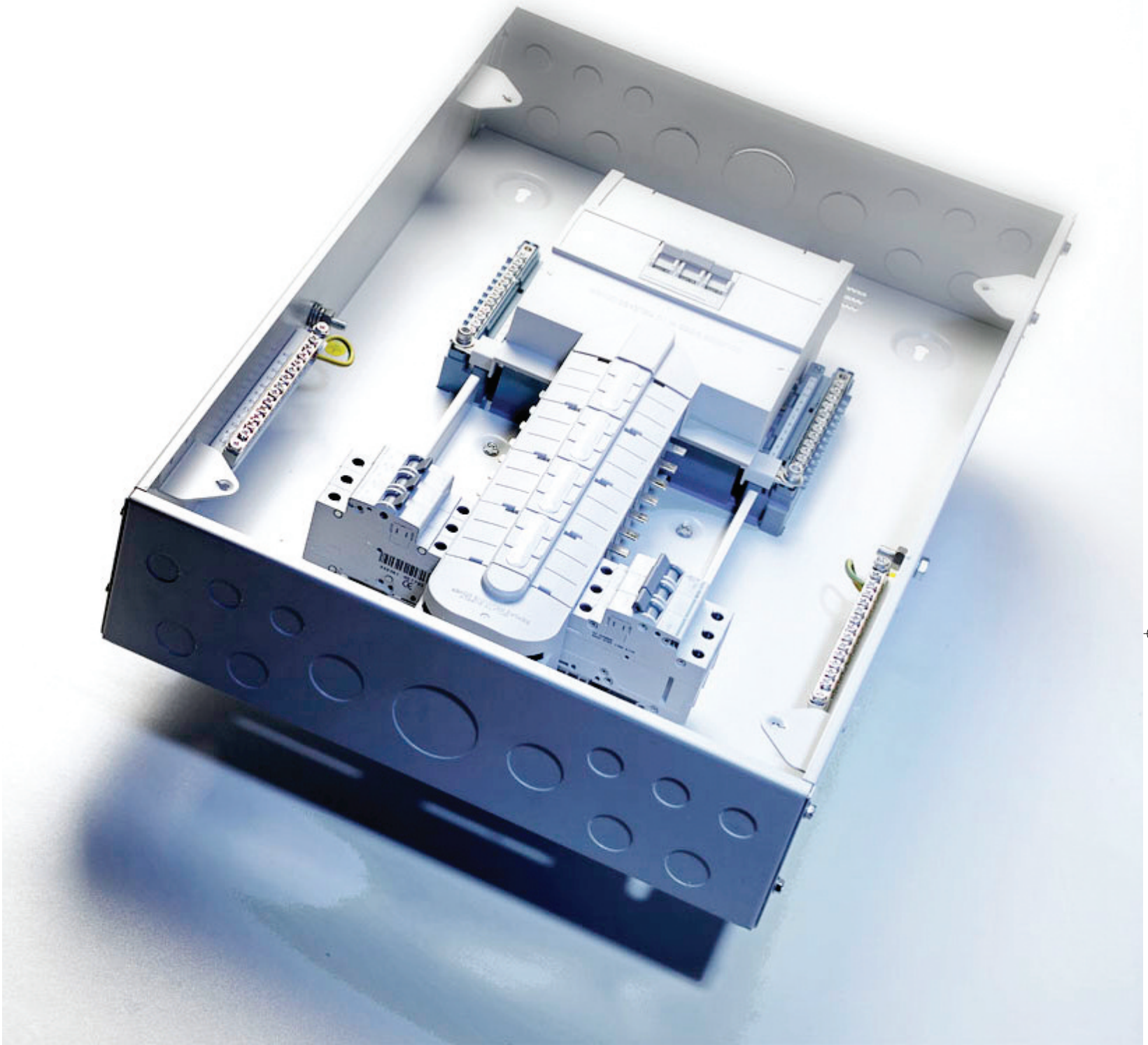


New MCB board

Hager has developed the new Invicta Type B boards as a solution for modern residential, commercial and Industrial installations.

The whole nature of electrical sub and final distribution for commercial installations has changed in the last few years. Typically there are more outgoing ways, more RCBOs and/ or RCD protection, more metering and more control devices.

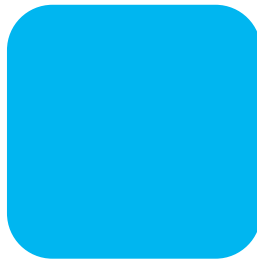
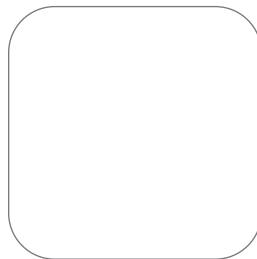
Hager decide that it was time to design a board that meets the needs of current installations, not those of the past. Our new range of Type B boards makes it easier for you to design and install electrical distribution systems that meet the needs of today and the future.



In addition, DIN rail mounted control devices such as time switches, lighting dimmers and twilight switches are becoming increasingly popular. On a more complex level many building automation systems also operate by controlling the final circuits.

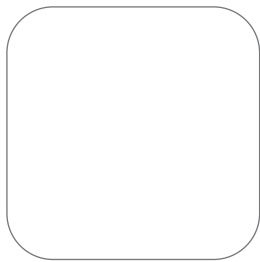
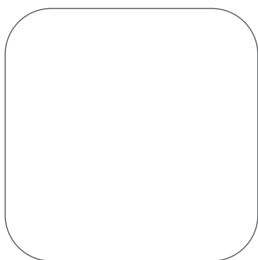
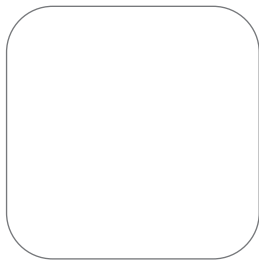
Factory suite Asia

As a global player, the Hager Group has 30 production sites in 12 countries, worldwide. Numerous sites produce the components for the respective markets. This proves to be sensible in order to provide for a better supply of individual installation fitting according to the respective customer habits.



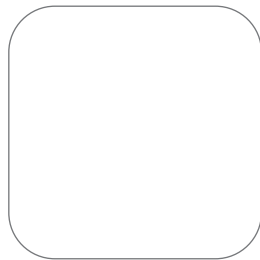
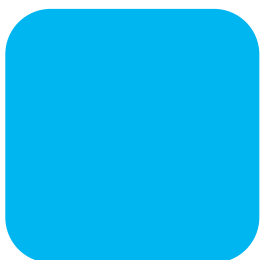
- 1. Huizhou factory, China
- 2. Assembly line
- 3. Warehouse
- 4. Production line
- 5. Meeting room
- 6. Restaurant
- 7. Dongguan factory, China
- 8. Coating line
- 9. Warehouse
- 10. CNC stamping
- 11. Bending machine





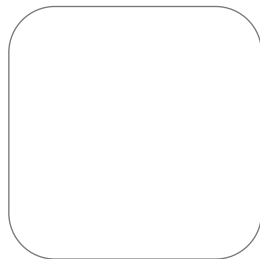
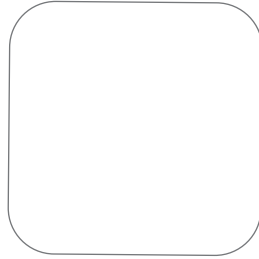
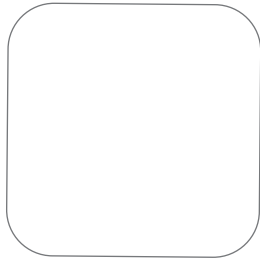
Project lists Hong Kong

Goals often can be expressed by very simple words. But for our part, objective means for providing the safe, comfortable and reliable electricity life to millions of Chinese people.



- 1. International Commerical Center
- 2. Wong Tai Sin - phase 1
- 3. Capitol
- 4. One Silver Sea
- 5. Manhattan Hill
- 6. Nina Tower
- 7. Celestial Heights
- 8. Cullinan





New MCCB board

Consumer units, TPN, New MCB board, New MCCB board, LBS, FCS

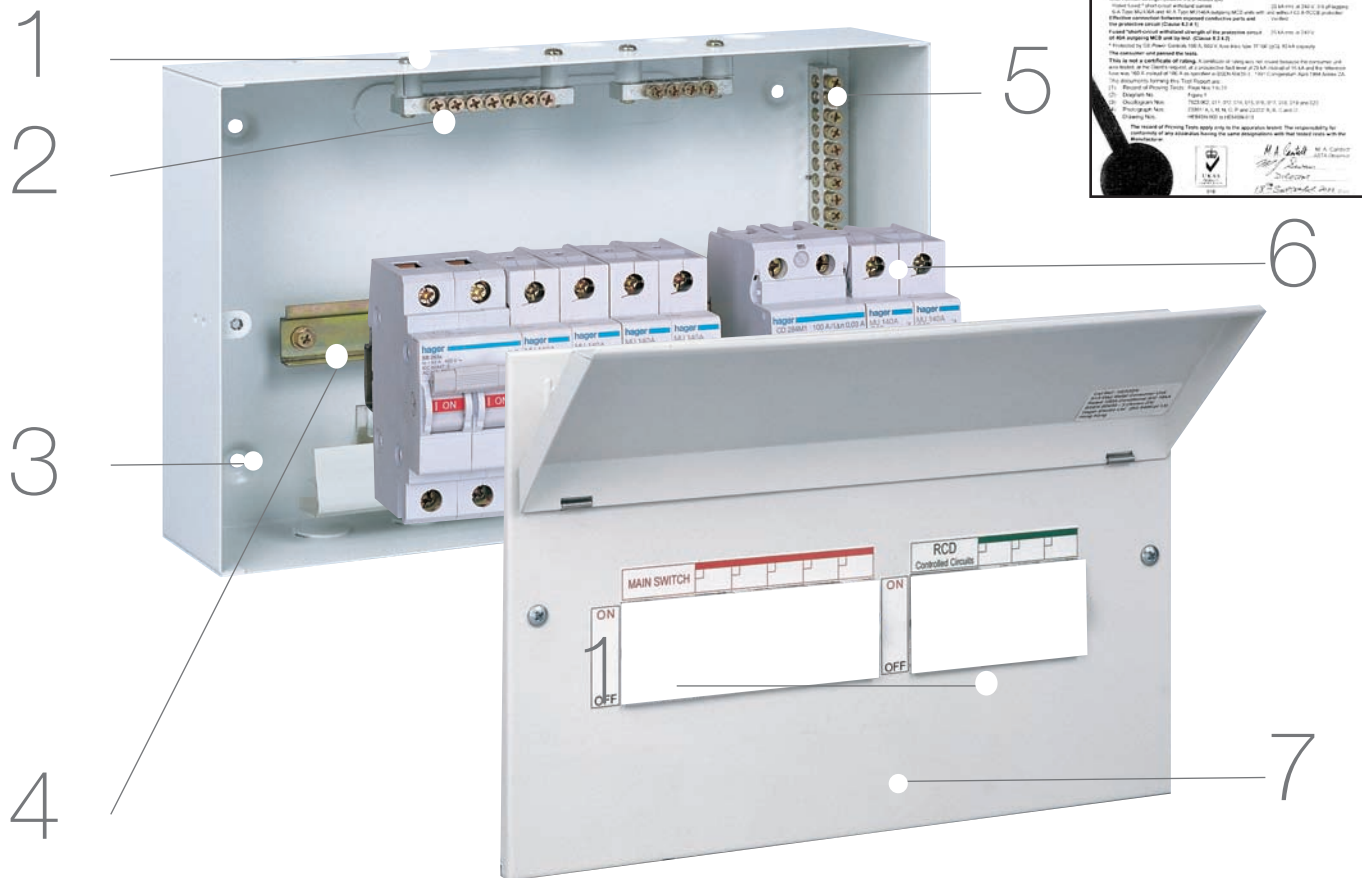
Nice, Aesthetic design complied with modern decoration area



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	<hr/>	
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Consumer unit

The metal clad range of consumer units are available with a fixed and split load 100A fully tinned busbar. The units feature either metal cover, protecting the devices, and can be supplied as either a surface or flush mounted option. The 2 pole incomer options can be either a switch disconnecter, a RCCB or a MCB. The outgoing devices are either MCB's or single / double modules RCBO's. Blank inserts are available to cover unused ways. All consumer units have standard size knockouts and are delivered with earth bar, neutral bar, busbar shroud and label kit. The units have been fully ASTA tested and comply with BS EN60439-3 (annex ZA).



The advantages for you :

- Compact
- Fitting with enclosures tinned copper busbar
- Ease of installation

Technical data :

- Standard BS EN60439-3
- 1.2mm thickness sheet steel with Epoxy powder coating in RAL 9002
- IP4X

Expert tips

1



Knock out
• For standard size conduits

2



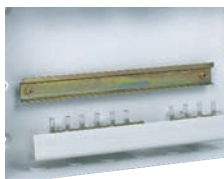
Neutral terminal
• Fully tinned
• Fully offer for incoming and outgoing devices

3



Domed holes
• For ease of installation

4



Fixed busbar
• Fully tinned
• Ease of installation

5



Earth terminal
• Fully tinned
• Fully offer for incoming and outgoing devices

6



Outgoing devices
• Single pole MCB's
• 2 module RCCB (split load)
• Single pole RCBO

7



Cover
• Metal

Consumer units



Technical characteristics

The metal range of consumer units with fixed tinned busbar offer up to a maximum 24 ways in a fixed load configuration, and 8 + 4 ways in a split load configuration.

The incoming and outgoing devices have to be separately selected and fitted by the installer. A neutral & earth terminal is supplied for each outgoing way and

extra earthing terminals for bonding purposes. All options must be internally wired by the contractor.

Electrical specification:

Rated Voltage (U_e) = 240V~
Rated Current (I_n) = 100A Insulation Voltage (U_i) = 690V
Conditional Short Circuit current = 25kA

Mechanical specification:

Protection Category: IP 4X
Material 1.2mm CR4: Steel
Powder Coated: RAL 9002

Devices incoming:

MCB 2P - 35mm²
100A 2P Switch
Disconnector - 35mm²

Terminal capacities

16-63A rigid 25mm²
flexible 16mm²
80&100A rigid 50mm²
flexible 35mm²

Outgoing:

SP MCB
SP RCBO (with flying lead)



Switch disconnector (isolator) rating	No. of outgoing ways	Pack Qty.	Cat. Ref.
63 / 100A incoming	4	1	HE04SN
	6	1	HE06SN
	8	1	HE08SN
	10	1	HE10SN
	12	1	HE12SN
	14	1	HE14SN
	16	1	HE16SN
	18	1	HE18SN
	24	1	HE24SN

• Other models available on request

Consumer unit split load



Switch disconnector (isolator) rating	No. of outgoing ways	Pack Qty.	Cat. Ref.
63/ 100A incoming & 40/ 63/ 100A incoming double pole RCCB	4 + 2 ways	1	HE42SN
	5 + 2 ways	1	HE52SN
	6 + 2 ways	1	HE62SN
	5 + 3 ways	1	HE53SN
	6 + 3 ways	1	HE63SN
	7 + 3 ways	1	HE73SN
	8 + 4 ways	1	HE84SN

• Other models available on request

Technical characteristics
Surface mounting

Complete with din rail
1 row
1-16 ways

Enclosure manufactured from
1.2mm steel.

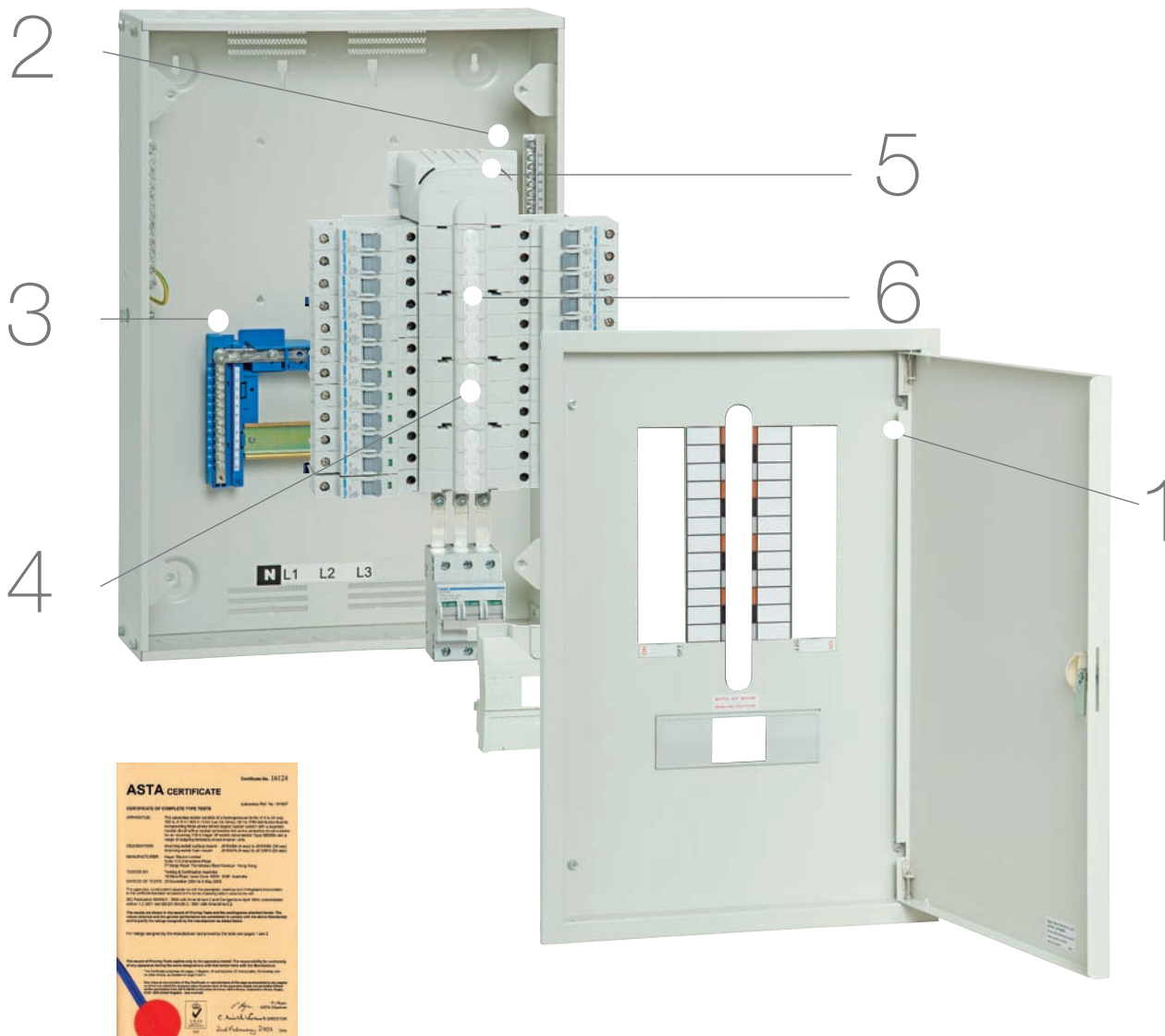


Designation	No. of Outgoing ways	Pack Qty.	Cat Ref.
Enclosure	1 row / 1 way	1	VT01E
	1 row / 2 ways	1	VT02E
	1 row / 4 ways	1	VT04E
	1 row / 6 ways	1	VT06E
	1 row / 8 ways	1	VT08E
	1 row /10 ways	1	VT10E
	1 row /12 ways	1	VT12E
	2 row /14 ways	1	VT14E
	2 row /16 ways	1	VT16E

• Other models available on request

TPN125 type B distribution boards

- 125A incoming, 63A outgoing



The advantages for you :

- Easy to install
- Reversible door
- Removable pre-punched top and bottom gland plates
- More wiring space

Technical data :

- Standard BS EN60439-3 / IEC 60439-3
- 1.2mm thickness sheet steel with Epoxy powder coating in RAL 9002
- IP41
- 4 way to 24 way
- 20kA at 415V for 0.2 sec.
- 9 modules cut out for fixed load
- 13 modules cut out for split load

Expert tips

1



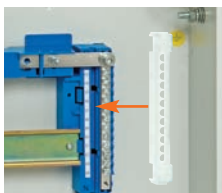
Removable door and reversed for ease of fitting

2



Earth terminal bars are mounted offset to neutral terminal bars and angled towards the installer for easy cable installation. The screws are fully turned down for simple and fast cabling,

3



Transparent IP2X neutral cover allows for ease of cable installation. Screw fully turned down for easy and fast cabling.

4



Ease of phase identification L1, L2, L3 mouldings show through when the front cover is fitted. Textured surface on busbar assembly allows contractor to write circuit identification.

5



Top tap off for simple board extensions or split load in 125A or an additional MCB up to 125A

6



Whole set of busbar separated into "circuit A & circuit B" in split load board.

Invicta - TPN125 type B distribution boards

125A incoming, 63A outgoing



Technical characteristics

Standards:

BS EN 60439 - 1 & 3
IEC60439-3

Suitable for modular incomers
as well as non modular incomers

Busbar current rating:

125A

ASTA certified insulated tinned copper busbar assembly:

- Rated short circuit withstand
for busbars:
20 kA at 415V for 0.2 sec.

Removable pre punched top
and bottom gland plates.

Incomer cutout width:

9 modules for fixed load
13 modules for split load.

Reversible door.

1.2 mm thickness sheet steel
with epoxy powder coating in
RAL 9002

IP41

Accessories like key lock, DIN
rail extension boxes etc...



Fixed load board
No. of ways

Cat.
Ref.

4 way	JK1B04S1
6 way	JK1B06S1
8 way	JK1B08S1
10 way	JK1B10S1
12 way	JK1B12S1
16 way	JK1B16S1
18 way	JK1B18S1
24 way	JK1B24S1

Notes:

1. Come with JK1L1003SM link kit
2. For MCB 80-125A as incomer, use JK1L1253SK/ JK1L1253MM incoming link kit
3. For Direct incomer, use incoming link kit JK2L2504D



Split load board
No. of ways
Section 1

Section 2

Cat.
Ref.
(Surface)

2	2	JK1B022S1
4	2	JK1B042S1
4	4	JK1B044S1
6	2	JK1B062S1
6	4	JK1B064S1
6	6	JK1B066S1
8	4	JK1B084S1
8	6	JK1B086S1
8	8	JK1B088S1
10	4	JK1B104S1

Notes:


1. Come with JK1L1003SMSL link kit

Invicta - TPN 125 type B distribution board extensions and accessories for TPN 125A



Invicta TPN type B distribution boards can be extended vertically by combining them with DIN rail boards, for installation of modular devices like time switches, contactors etc...

Joining kits are used to combine TPN type B boards and DIN rail boards

	Designation	Cat. Ref.
 <p>JK1L1004SM</p>	Incoming link kits	
	3P 63A/ 100A switch disc/ RCCB or 63A MCB incomer kit for 125A fixed load	JK1L1003SM
	3P 63A/ 100A switch disc/ RCCB or 63A MCB incomer kit for 125A split load	JK1L1003SMSL
	3P 80A - 125A MCB incomer kit for 125A JK	JK1L1253MM
	3P 125A switch disc incomer kit for 125A JK	JK1L1253SK
	4P 63A/ 100A switch disc/ RCCB or 63A MCB incomer kit for 125A fixed load	JK1L1004SM
	4P 63A/ 100A switch disc/ RCCB or 63A MCB incomer kit for 125A split load	JK1L1004SMSL
	4P 80A - 125A MCB incomer kit for 125A JK	JK1L1254MM
	125A direct connection kit	JK2L2504SD
		Cable spreader box
JK1 Cable spreader box	JK1E01S	
JK2 Cable spreader box	JK2E01S	
JK1 - 16 module din extension box (15M available)	JK1E16S	
JK1 - 32 module din extension box	JK1E32S	
JK1 - 48 module din extension box	JK1E48S	
	Joint kit for spreader and extension box	Surface
JK1 - Joint kit for spreader box	JK1XJKES	
	Accessories	
Joint kit for spreader and extension box for 125A	JK1XJKES	
Two pieces of gland plate with screws for 125A boards	JK1XGP	
1 module blank	P032H	
Busbar protective boot	P100H	
Single phase blank for TPN boards	JK1XBSP	
Key lock for distribution boards	JK1XKLS	
Incomer shroud in 125A fixed load board in 9M with 3M cutout	JK1XISF3	
Incomer shroud in 125A fixed load board in 9M without cutout	JK1XISF0	
Incomer shroud in 125A split load board in 13M with 7M cutout	JK1XISS7	
Incomer shroud in 125A split load board in 13M with 11M cutout	JK1XISS11	
Incomer shroud in 125A split load board in 13M with 13M cutout	JK1XISS13	
Neutral terminal cover IP2X	JK1XNC	
Spare neutral terminal (4 way)	JK1XSNT	
Spare neutral terminal extra (10 way)	JK1XSNTTE	



JK1XBS



P032H

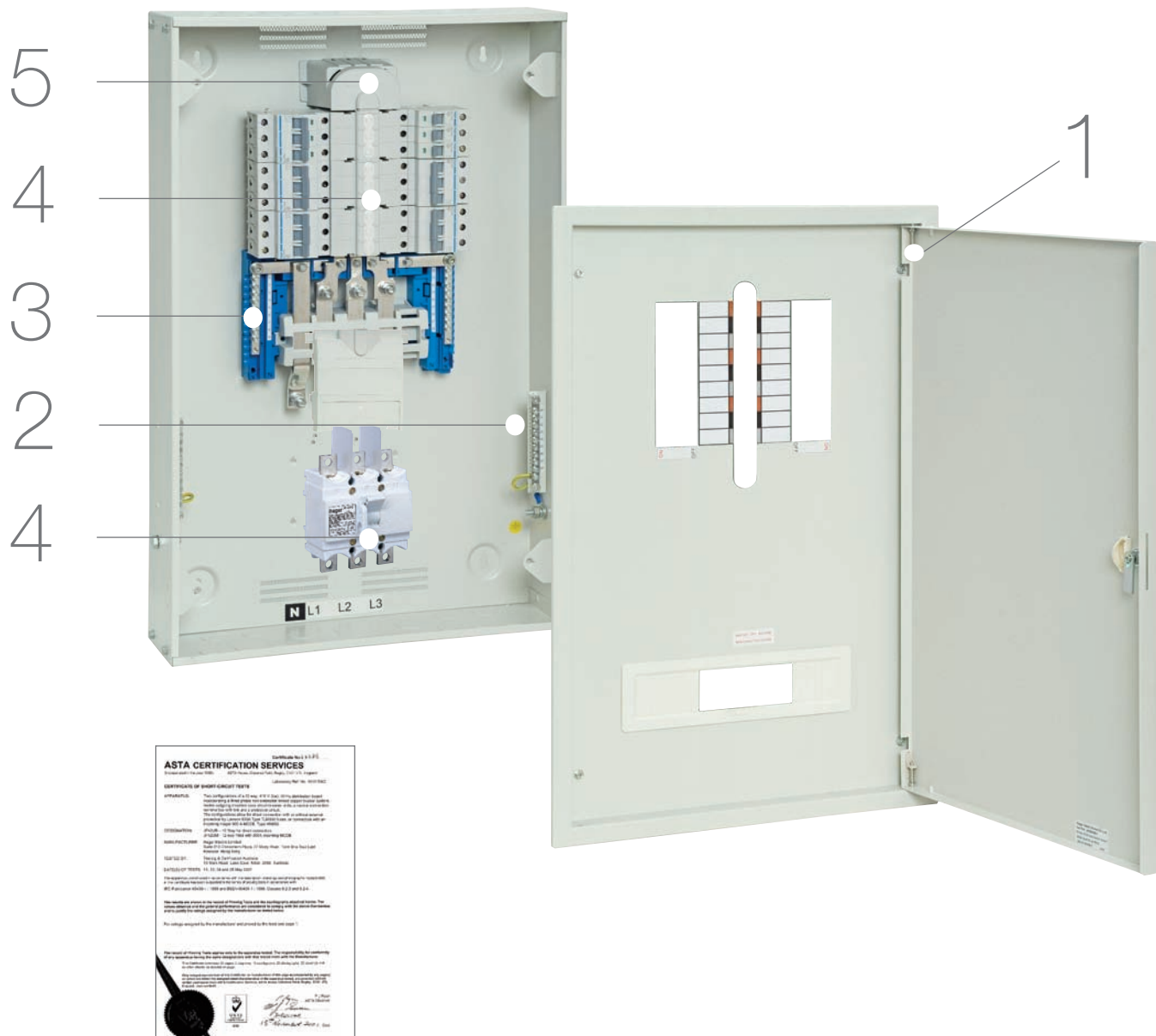


JK1XNC



JK1XSNT

Invicta TPN 250 type B distribution boards



The advantages for you :

- Easy to install
- Removable door
- More wiring space

Technical data :

- Standard BS EN60439-3 / IEC 60439-3
- 1.2mm thickness sheet steel RAL 9002 Epoxy powder coated
- IP41
- 13 modules cut out
- 20 kA for 0.2 sec.
- 4 way to 24 way

Expert tips

1



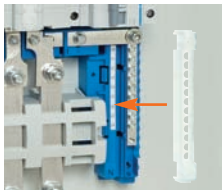
Removable door and reversed for ease of fitting

2



Earth terminal bars are mounted offset to neutral terminal bars and angled towards the installer for easy cable installation. The screws are fully turned down for simple and fast cabling,

3



Transparent IP2X neutral cover allows for ease of cable installation. Screw fully turned down for easy and fast cabling.

4



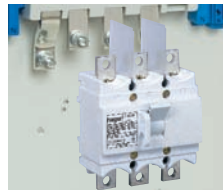
Ease of phase identification L1, L2, L3 mouldings show through when the front cover is fitted. Textured surface on bus-bar assembly allows contractor to write circuit identification.

5



Top tap off for simple board extensions or split load in 125A or an additional MCB up to 125A

6



Multiple incomer choices for switch or MCCB

Invicata 63 TPN distribution boards 200A incoming, 63A outgoing



Designation	Number of TP ways	Cat. Ref.
TP & N for DP		
Incoming 200A direct terminal	6	JD06P
	12	JD12P
	18	JD18P
	24	JD24P

Invicta - TPN 250 type B distribution boards

Technical characteristics

Standards:

BS EN 60439 - 1 & 3
IEC 60439-3

ASTA certified insulated tinned copper busbar assembly:
- Rated short circuit withstand for busbars:
20 kA at 415V for 0.2 sec.

Reversible door.

Suitable non modular incomers

1.2 mm thickness with sheet steel epoxy powder coating in RAL 9002

Busbar current rating:
250A

Removable pre punched top and bottom gland plates.

IP41

Accessories like key lock, DIN rail extension boxes etc...



Designation No. of ways	Cat. Ref. Surface
4 way	JK2B04S1
6 way	JK2B06S1
8 way	JK2B08S1
10 way	JK2B10S1
12 way	JK2B12S1
16 way	JK2B16S1
18 way	JK2B18S1
24 way	JK2B24S1

Note: Link kits are not supplied with standard, please order I/e link kits separately

Invicta - type B distribution board extensions and accessories for TPN 250A



Invicta TPN type B distribution boards can be extended vertically by combining them with DIN rail boards, for installation of modular devices like time switches, contactors etc...

Joint kits are used to combine TPN type B boards and DIN rail boards

Designation	Pole	Cat. Ref.
Incoming link kits		
160A switch disc incomer kit for 250A JK	3	JK2L1603SK
200/ 250A switch disc incomer kit for 250A JK	3	JK2L2503SK
125/ 160A MCCB/ MCS incomer kit for 250A JK	3	JKL1603MH
200/ 250A MCCB/ MCS incomer kit for 250A JK	3	JKL2503MH
125/ 160A MCCB incomer kit for 200/ 250A JK	4	JK2L1604MH
250A MCCB incomer kit for 250A JK	4	JK2L2504MH
200/ 250A direct connection kit	4	JK2L2504D
Cable spreader box		
JK2 Cable spreader box		Surface JK2E01S
DIN rail extension box		
JK2 - 16 module (15M available)		Surface JK2E16S
JK2 - 32 module		JK2E32S
JK2 - 48 module		JK2E48S
Joint kit for spreader box		
JK2 - Joint kit for spreader box		Surface JK2XJKES
Accessories		
Joint kit for spreader and extension box for 250A		JK2XJKES
Two pieces of gland plate with screws for 250A boards		JK2XGP
1 module blank		P032H
Busbar protective boot		P100H
Single phase blank for TPN boards		JK1XBSP
Key lock for distribution boards		JK1XKLS
13M blank for 125/ 160A switch on cover in 250A boards		JK2XBSK1
13M blank for 200/ 250A switch on cover in 250A boards		JK2XBSK2
13M blank for 125/ 160A MCCB/ MCS on cover in 250A boards		JK2XBMH1
13M blank for 125/ 160A MCCB/ MCS on cover in 250A boards		JK2XBMH2
Neutral terminal cover IP2X		JK1XNC
Spare neutral terminal (4 way)		JK1XSNT
Spare neutral terminal extra (10 way)		JK1XSNT



JK2XIS



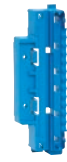
JK1XBS



P032H



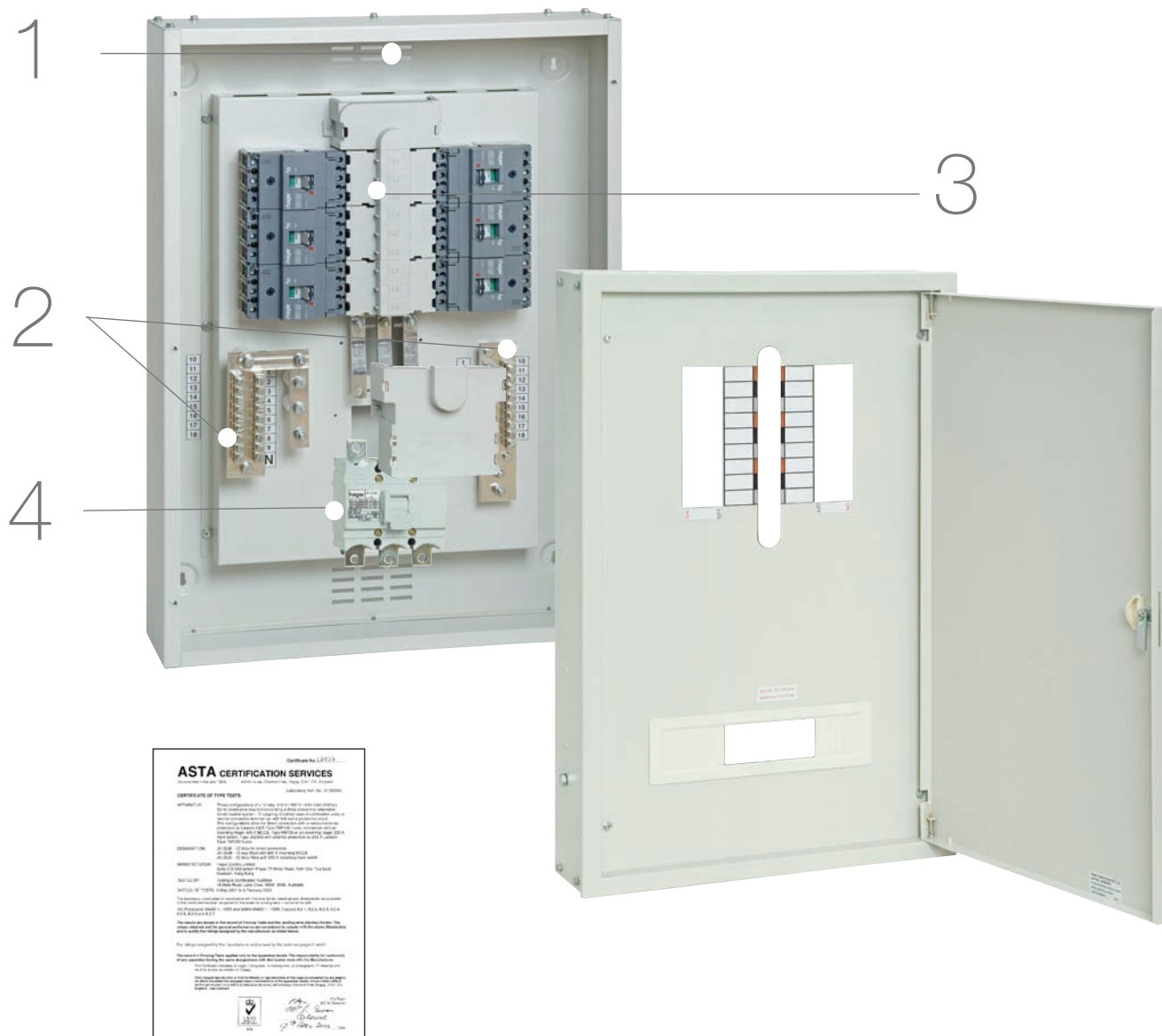
P100H



JK1XSNT

Invicta 250A panel board system

250A incoming, 125A outgoing



The advantages for you :

- Easy to install
- More wiring space

Technical data :

- Standard BS EN60439-1 / IEC 60439-1
- 1.5 mm thickness sheet steel with Epoxy powder coating in RAL 9002
- IP41
- 25 kA for 0.3 sec.

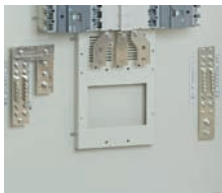
Expert tips

1



Optimal cabling space.

2



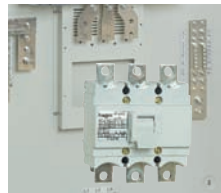
Earth and neutral bars positioned for easier cabling

3



Ease of phase identification
L1, L2, L3 mouldings show through when the front cover is fitted. Textured surface on bus-bar assembly allows contractor to write circuit identification.

4



Multiple in-circuit breaker choices for switch or MCCB

Invicta - 250A panel board system

250A incoming, 125A outgoing



Technical characteristics

Standards:

BS EN 60439 - 1 & 3
IEC 60439-1

Suitable for MCCBs & isolating switches incomers.

ASTA certified insulated tinned copper busbar assembly:


- Rated short circuit withstand capacity for 250A busbar 25kA at 415V for 0.3 sec.

Removable pre punched top and bottom gland plates.

1.5 mm thickness sheet steel with epoxy powder coating RAL 9002

IP41

Accessories like key lock, DIN rail extension boxes etc...

Designation	No. of ways	Cat. Ref.
 Invicta - 250 panel board system 250A incoming and 125A (x 160) MCCB outgoing	2 way	JN2B00002S1
	4 way	JN2B00004S1
	6 way	JN2B00006S1
	8 way	JN2B00008S1
	10 way	JN2B00010S1
	12 way	JN2B00012S1
	16 way	JN2B00016S1

Note: Link kits are not supplied with standard, please order I/e link kits separately

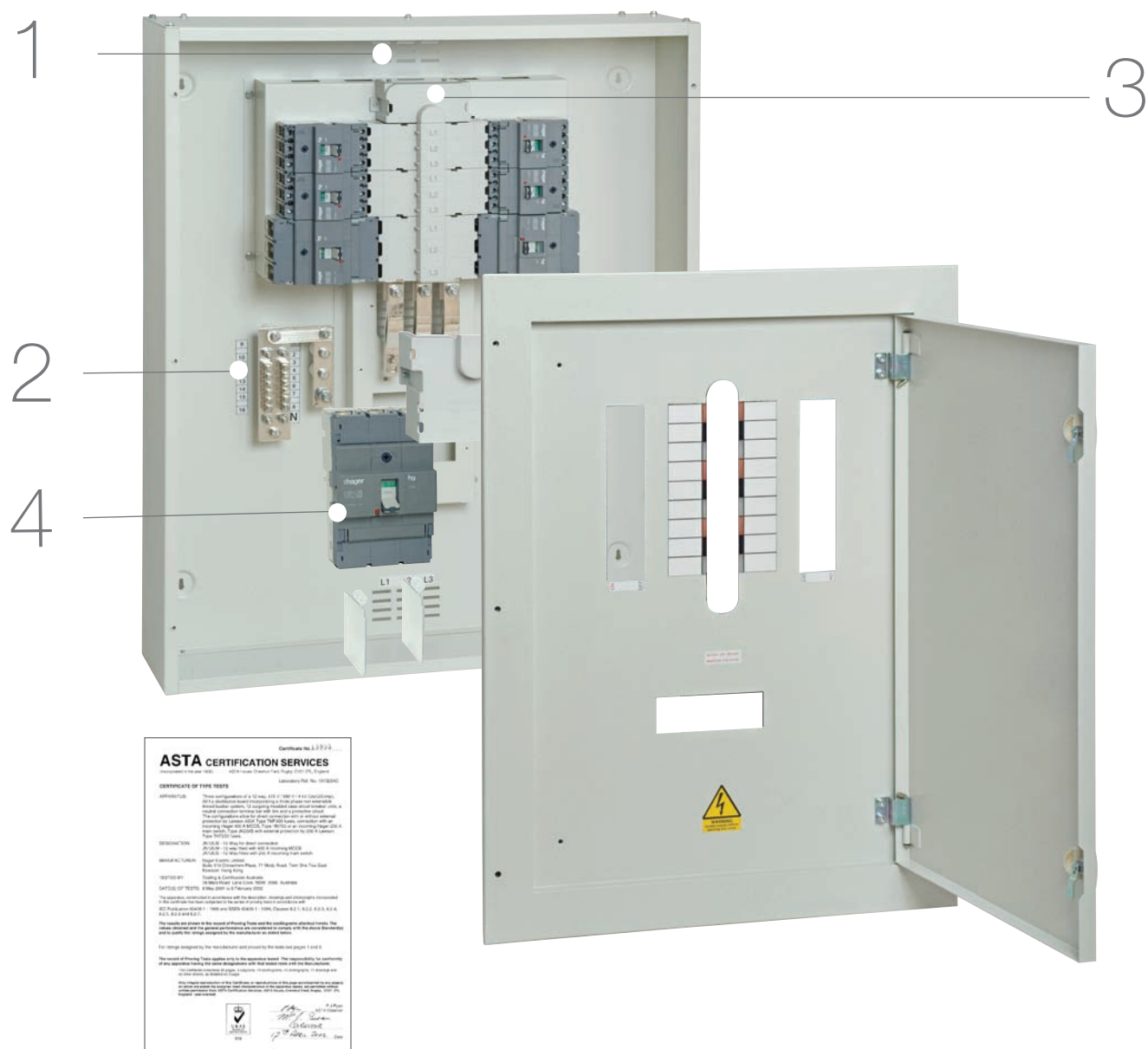
Invicta - 250A panel board system extensions and accessories



Description	Cat. Ref.
Incomer kits	
250A 3P MCCB incomer kit	JN2L2503MH
250A 4P MCCB incomer kit	JN2L2504MH
250A 3P isolator incomer kit	JN2L2503SK
250A direct incomer	JN2L2503D
Extention box	
250A spreader box	JN2E01S
250A din rail box	JN2E20S
Accessories/ spares	
Single pole blanking plate 125A frame	JN2XBSP
Key lock for distribut boards	JK1XKLS

Invicta 400A panel board system

400A incoming, 125A/ 250A outgoing



The advantages for you :

- Easy to install
- More wiring space

Technical data :

- Standard BS EN60439-1 / IEC 60439-1
- 1.5 mm thickness sheet steel with Epoxy powder coating in RAL 9002
- IP41
- 35 kA at 415V for 1 sec.

Expert tips

1



Optimal cabling space.

2



Earth and neutral bars positioned for easier cabling

3



Ease of phase identification
L1, L2, L3 mouldings show through when the front cover is fitted. Textured surface on bus-bar assembly allows contractor to write circuit identification.

4



Multiple incomer choices for switch or MCCB

Invicta - 400A panel board system

400A incoming, 125A, 250A outgoing



Technical characteristics

Standards:

BS EN 60439 - 1 & 3
IEC 60439-1

Suitable for (MCCBs) incomers and outgoings.

ASTA certified insulated tinned copper busbar assembly:

- Rated short circuit withstand capacity for busbar 35kA at 415V for 1 sec.

Removable pre punched top and bottom gland plates.

1.5 mm thickness with sheet steel epoxy powder coating in RAL 9002

IP41

Accessories like key lock, DIN rail extension boxes etc...



Designation	No. of ways	Cat. Ref.
Invicta - 400 panel board system up to 400A incoming up to 125A (x160) outgoings	4 way	JN4B00004S1
	6 way	JN4B00006S1
	8 way	JN4B00008S1
	10 way	JN4B00010S1
	12 way	JN4B00012S1
	16 way	JN4B00016S1



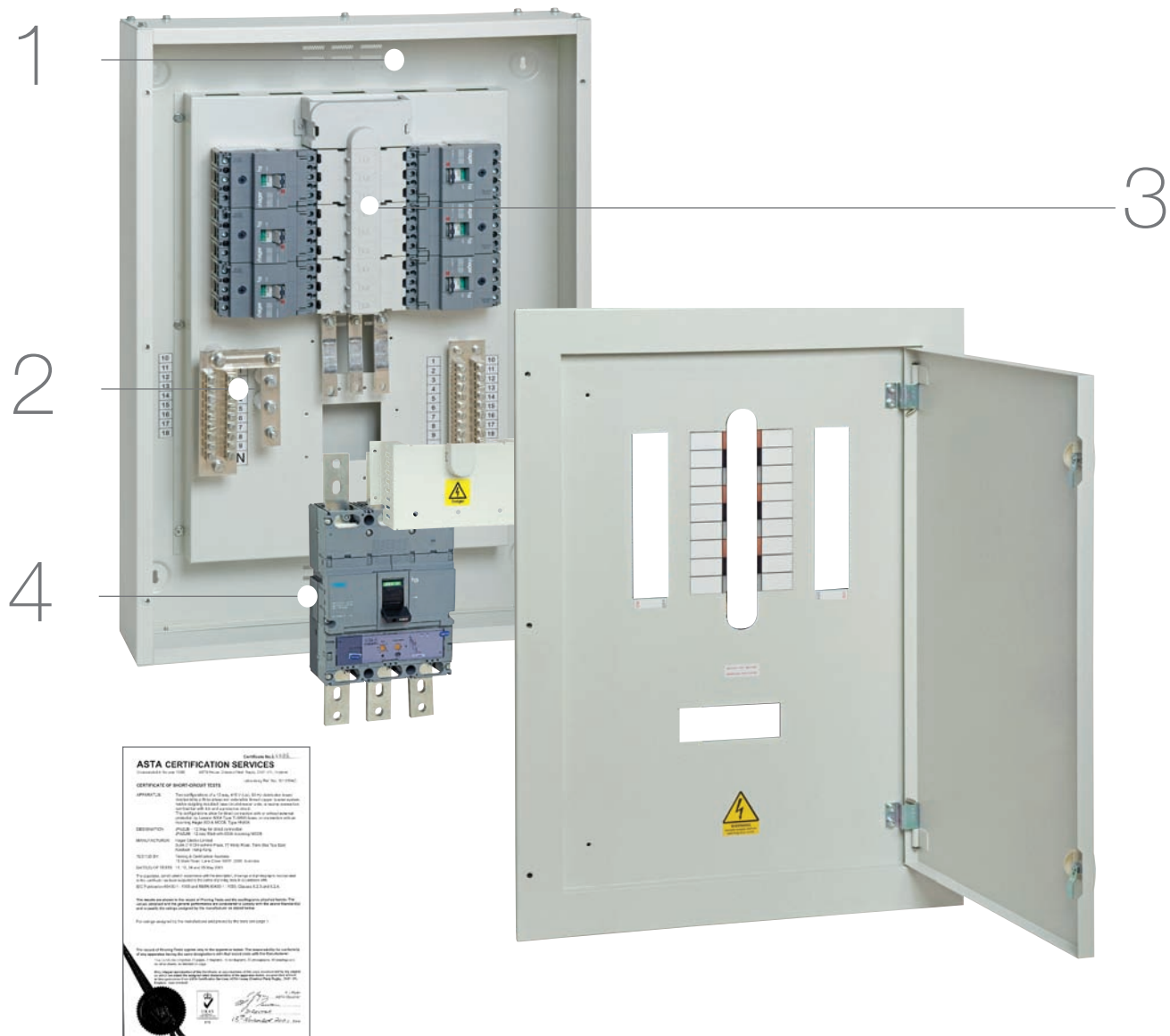
Designation	No. of ways 250A	No. of ways 125A Outgoers	Cat. Ref.
Invicta - 400 panel board system up to 400A incoming up to 250A (x250) outgoings up to 125A (x160) outgoings	2 way	2 way	JN4B00202S1
	2 way	4 way	JN4B00204S1
	2 way	6 way	JN4B00206S1
	2 way	8 way	JN4B00208S1
	2 way	10 way	JN4B00210S1
	2 way	14 way	JN4B00214S1

Invicta - 400 panel board system extensions & accessories



Description	Cat. Ref.
Incomer kits	
400A 3P MCCB incomer kit	JN4L4003MH
400A 4P MCCB incomer kit	JN4L4004MH
400A direct incomer	JN4L4303D
400A 3P MCCB extension bar	JN4L4003EB
Extention box	
400A spreader box	JN4E01S
400A small din rail box	JN4E24S
400A large din rail box	JN8E32S
Accessories/ spares	
Single pole blanking plate 125A frame	JN2XBSP
Three pole blanking plate 250A frame	JN4XBTP
Key lock for distribution boards	JK1XKLS

Invicta 800A panel board system 630A/800A incoming, 125A/250A/ 400A outgoing



The advantages for you :

- Easy to install
- More wiring space

Technical data :

- Standard BS EN60439-1 / IEC 60439-1
- 1.5 mm thickness sheet steel with Epoxy powder coating in RAL 9002
- IP41
- 40 kA at 415V for 1 sec.
- 43 kA at 415V for 0.2 sec.

Expert tips

1



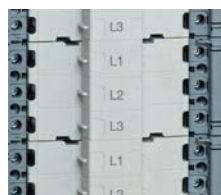
Optimal cabling space.

2



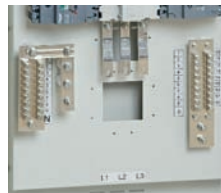
Earth and neutral bars positioned for easier cabling

3



Ease of phase identification
L1, L2, L3 mouldings show through when the front cover is fitted. Textured surface on bus-bar assembly allows contractor to write circuit identification.

4



Multiple incomer choices for switch or MCCB

Invicta - panel board 630/ 800A incoming 125A, 250A, 250+125A, 400A+125A, 400A+125A, 400A+250A outgoing



Technical characteristics

Standards:

BS EN 60439 - 1
IEC 60439-1

Suitable for MCCBs incomers and outgoing.

ASTA certified insulated tinned copper busbar assembly:

- Rated short circuit withstand capacity for 630/ 800A busbar 40kA for 1 sec. or 43kA for 0.2 sec

Removable pre punched top and bottom gland plates.

1.5 mm thickness sheet steel with epoxy powder coating in RAL 9002

IP41

Accessories like key lock, DIN rail extension boxes etc...



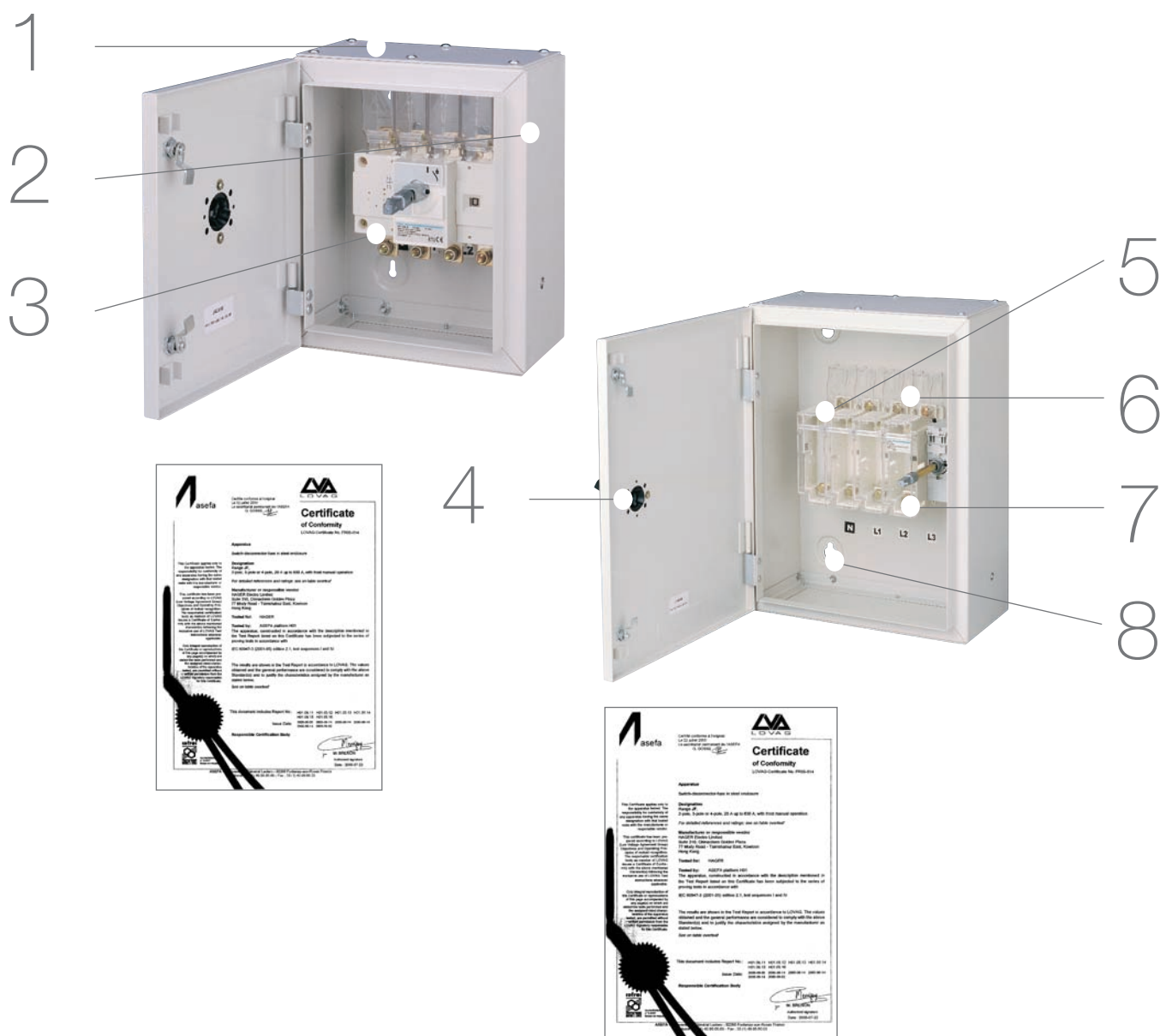
Description	No. of ways 250A	No. of ways 125A	Cat. Ref.
Invicta - 630A/ 800A panel board system up to 630A/ 800A incoming up to 125A (x160) MCCB outgoing	/	4	JN8B00004S1
	/	6	JN8B00006S1
	/	8	JN8B00008S1
	/	10	JN8B00010S1
	/	12	JN8B00014S1
	/	16	JN8B00016S1
Invicta - 630A/ 800A panel board system up to 630A/ 800A incoming up to 250A (x250) MCCB outgoing	4	/	JN8B00400S1
	6	/	JN8B00600S1
	8	/	JN8B00800S1
	10	/	JN8B01000S1
	12	/	JN8B01200S1
	16	/	JN8B01600S1
Invicta - 630A/ 800A panel board system up to 630A/ 800A incoming up to 250A (x250) outgoing and up to 125A (x160) outgoing	2	2	JN8B00202S1
	2	4	JN8B00204S1
	2	6	JN8B00206S1
	2	8	JN8B00208S1
	2	10	JN8B00210S1
	2	14	JN8B00214S1
Invicta - 630A/ 800A panel board system up to 630A/ 800A incoming up to 250A (x250) outgoing and up to 125A (x160) outgoing	4	2	JN8B00402S1
	4	4	JN8B00404S1
	4	6	JN8B00406S1
	4	8	JN8B00408S1
	4	10	JN8B00410S1
Invicta - 630A/ 800A panel board system up to 630A/ 800A incoming up to 250A (x250) outgoing and up to 125A (x160) outgoing	6	6	JN8B00606S1
	6	8	JN8B00608S1

Invicta - 630A/ 800A panel board system extensions & accessories



Description	Cat. Ref.
Incomer kits	
630A 3P MCCB incomer kit	JN8L6303MH
630A 4P MCCB incomer kit	JN8L6304MH
630A direct incomer	JN8L6303D
800A 3P MCCB incomer kit	JN8L8003MH
800A 4P MCCB incomer kit	JN8L8004MH
800A direct incomer	JN8L8003D
630A 3P MCCB extension bar	JN8L6303EB
800A 3P MCCB extension bar	JN8L8003EB
Extention box	
800A spreader box	JN8E01S
800A din rail box	JN8E32S
Accessories/ spares	
Key lock for distribution boards JN1XKLS	1
Single pole blanking plate 125A frame JN2XBSP	1
Three pole blanking plate 250A frame JN4XBTP	1

Enclosed fuse combination switches and switch disconnectors



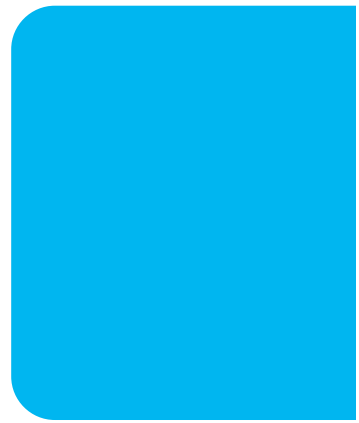
The advantages for you :

- Easy to install
- Positives action door handle
- Lockable off

Technical data :

- IEC 60947-3
- Robust 1.2 mm steel enclosure

Expert tips



1



- 2.0 mm (up to 400A)
- 2.5 mm (up to 630A - 800A)
- Knock outs and removable gland plate

5



Neutral bar

2



Robust 1.2 mm steel enclosure

6



Can be top or bottom fed

3



Terminal cover

7



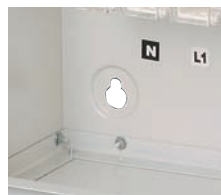
• Accepts BS88 fuses

4



Lockable off

8



Key hole mounting slots

Enclosed fuse combination switches 32-800A



Technical characteristics

Description

The range of enclosed FCS have been designed to match the TP & N range of distribution boards. The number of enclosure sizes have been optimized, to ensure that the installation is easy and uniform. The FCS products are designed to protect

& isolate individual circuits. All handles can be padlocked in the off position. Extension boxes are available for extra cabling space. Operation is through a door operated rotary handle.

Electrical specification:

Tested and complies to IEC 60497-3
LBS Sequence 1 & 3
FCS Sequence 1 & 4

Electrical Supply:

415V~AC Rating AC23
(100A~AC22A)

Mechanical specification:

Material 1.2mm CR4 Steel
Powder Coated RAL 9002

Devices & accessories

SPSN 20 - 100A (4 ratings)
TP & N 20 - 800A (12 ratings)
TPSN 20 - 800A (12 ratings)



Designation Enclosed FCS	In A	Utilisation Category	Fuse type	Cat. Ref.
Single pole switched neutral	20A	AC23A	A1	JFB202
	32A	AC23A	A1	JFB203
	63A	AC23A	A2-A3	JFD206
	100A	AC22A	A4	JFE210
Triple pole & neutral	20A	AC23A	A1	JFB302
	32A	AC23A	A1	JFB303
	63A	AC23A	A2-A3	JFD306
	100A	AC22A	A4	JFE310
	125A	AC23A	B1-B2	JFG312
	160A	AC23A	B1-B2	JFG316
	200A	AC23A	B1-B2	JFG320
	250A	AC23A	B1-B3	JFG325
	315A	AC23B	B1-B3	JFH331
	400A	AC23B	B1-B4	JFH340
	630A	AC23B	C1-C2	JFI363
800A	AC23B	C1-C3	JFI380	
Triple pole switched neutral	20A	AC23A	A1	JFB402
	32A	AC23A	A1	JFB403
	63A	AC23A	A2-A3	JFD406
	100A	AC22A	A4	JFE410
	125A	AC23A	B1-B2	JFG412
	160A	AC23A	B1-B2	JFG416
	200A	AC23A	B1-B2	JFG420
	250A	AC23A	B1-B3	JFG425
	315A	AC23B	B1-B3	JFH431
	400A	AC23B	B1-B4	JFH440
	630A	AC23B	C1-C2	JFI463
800A	AC23B	C1-C3	JFI480	
Cable extension boxes triple pole & triple pole + switched neutral	125A, 160A, 200A		B1-B2	JZA701
	250A		B1-B3	JZA701
	315A		B1-B3	JZA702
	400A		B1-B4	JZA702
	630A		C1-C2	JZA703
	800A		C1-C3	JZA703
Auxiliary contact	1AC type NO			HZF301
	1AC type NC			HZF302
Terminal cover	100A	2P	3P	4P
	125A, 160A	HZF201	HZF202	HZF203
	200A to 400A	-	HZF202	HZF203
	630A to 800A	-	HZF204	HZF205
		-	HZF206	HZF207

Enclosed load break switches 20-1600A



Technical characteristics

Description

The range of enclosed LBS have been designed to match the TP & N range of distribution boards. The number of enclosure sizes have been optimized, to ensure that the installation is easy and uniform. Products are designed to isolate individual circuits. All

handles can be padlocked in the off position. Extension boxes are available for extra cabling space. Operation is through a door operated rotary handle.

Electrical specification:

Tested and complies to
BS EN 60439-1 (enclosure)
BS EN 60947-3 (device)
LBS Sequence 1 & 3
FCS Sequence 1 & 4

Electrical Supply: 415V ~ AC
Rating AC23A (100, 315, 400 & 630A AC22A)

Mechanical specification:

Material 1.2 mm CR4 Steel
Powder Coated RAL 9002

Devices & accessories

TPN 20-1600A (14 ratings)
TPSN 20-1600A (14 ratings)

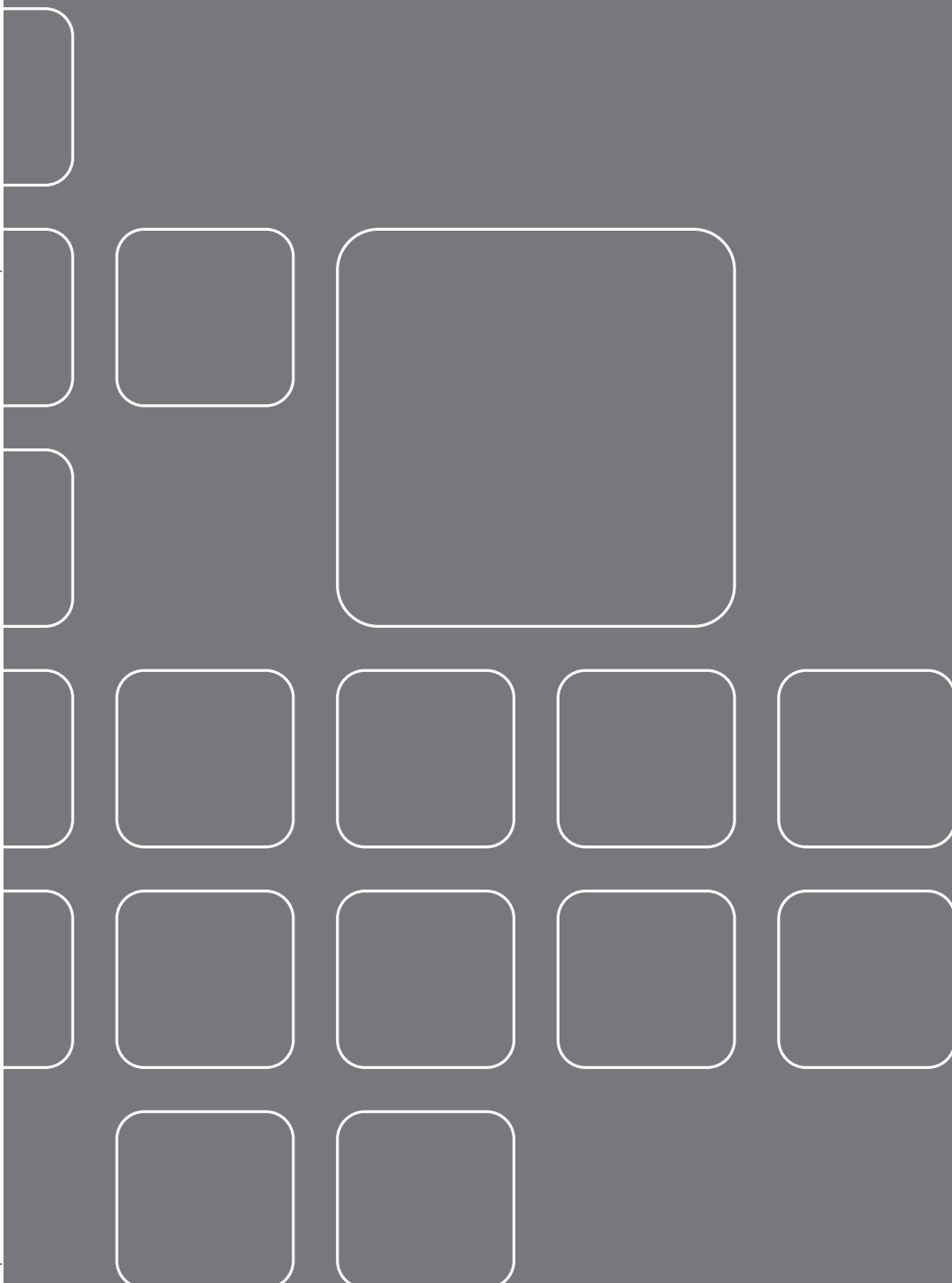


Designation Enclosed LBS	In A	Utilisation Category	Cat Ref.
Triple pole & neutral			
	20A	AC23A	JAB302
	32A	AC23A	JAB303
	63A	AC23A	JAB306
	100A	AC22A	JAB310
	125A	AC23A	JAC312
	160A	AC23A	JAC316
	200A	AC23A	JAE320
	250A	AC23A	JAE325
	315A	AC22A	JAG331
	400A	AC22A	JAG340
	630A	AC22B	JAH363
	800A	AC23B	JAH380
	1250A	AC23A	JAH390*
	1600A	AC23A	JAH392*
Triple pole switched neutral			
	20A	AC23A	JAB402
	32A	AC23A	JAB403
	63A	AC23A	JAB406
	100A	AC22A	JAB410
	125A	AC23A	JAC412
	160A	AC23A	JAC416
	200A	AC23A	JAE420
	250A	AC23A	JAE425
	315A	AC22A	JAG431
	400A	AC22A	JAG440
	630A	AC22B	JAH463
	800A	AC23B	JAH480
	1250A	AC23A	JAH490*
	1600A	AC23A	JAH492*
Cable extension boxes triple pole & triple pole switched neutral			
	125A , 160A		JZA700
	200A , 250A , 315A , 400A		JZA701
	630A , 800A		JZA702
Auxiliary contact			
	20A to 100A		HZ021
	125A to 1600A		HZ023
Terminal cover			
	125A to 200A	3P	HZC202
	250A to 400A	HZC201	HZC204
	630A	HZC203	HZC206
	800A	HZC205	HZ046
	1250A~1600A	HZ036	HZ047*
		HZ037	

* For overseas only



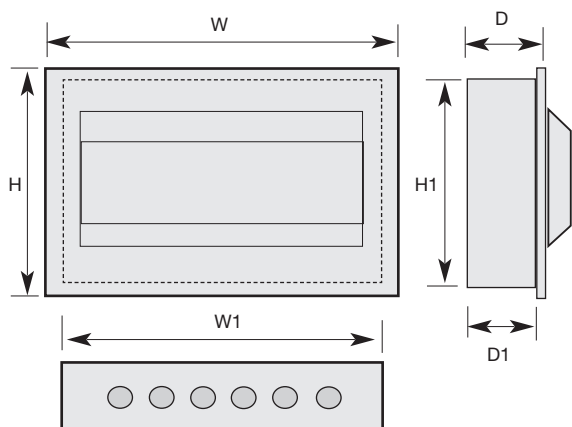
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Consumer units	42
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Consumer units with 100A SP busbar

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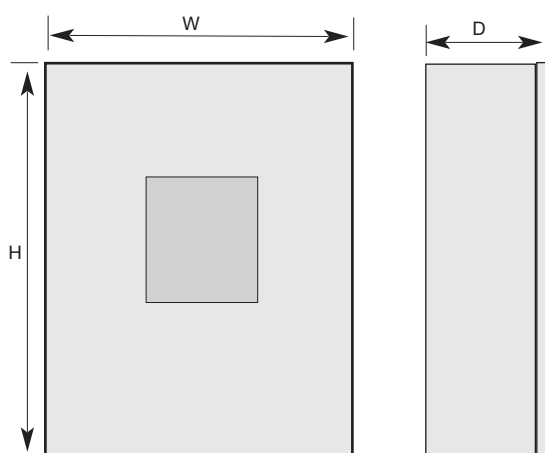


<i>Cat. Ref.</i>	<i>Dimensions</i>				
	<i>H</i>	<i>W</i>	<i>H1</i>	<i>W1</i>	<i>D1</i>
Fixed load					
HE04SN	231	214	226	208	71
HE06SN	231	250	226	244	71
HE08SN	231	286	226	280	71
HE10SN	231	322	226	316	71
HE12SN	231	358	226	352	71
HE14SN	231	394	226	388	71
HE16SN	231	430	226	424	71
HE18SN	231	466	226	460	71
HE24SN	231	574	226	568	71

Split load

HE42SN	231	304	226	298	71
HE52SN	231	322	226	316	71
HE62SN	231	340	226	334	71
HE53SN	231	340	226	334	71
HE63SN	231	358	226	352	71
HE73SN	231	476	226	370	71
HE84SN	231	512	226	406	71

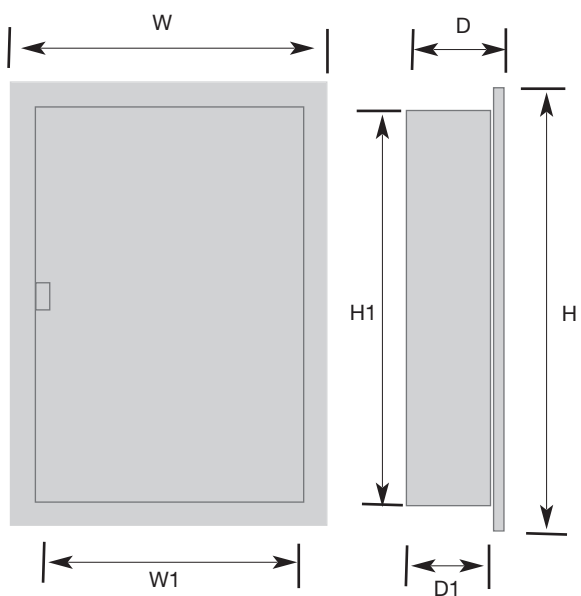
Din rail enclosure



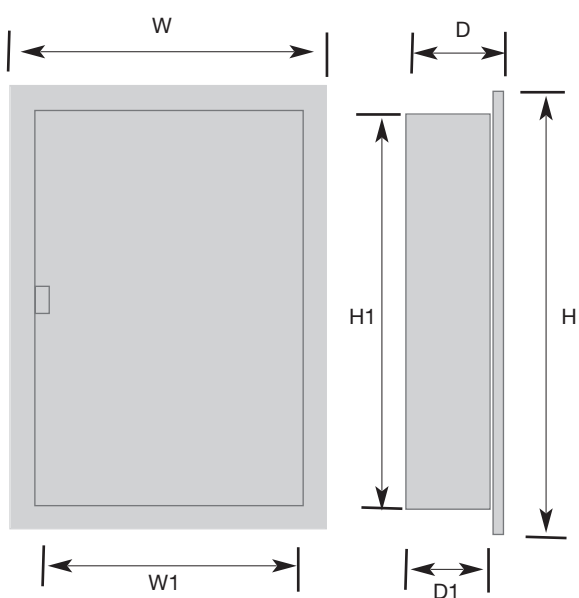
<i>Cat. Ref.</i>	<i>Dimensions</i>		
	<i>H</i>	<i>W</i>	<i>D</i>
Surface mounted			
VT01E	205	142	61
VT02E	205	178	61
VT04E	205	250	61
VT06E	205	322	61
VT08E	205	394	61
VT10E	205	466	61
VT12E	205	538	61
VT14E	485	361	80
VT16E	485	397	80

TPN 125 type B distribution boards

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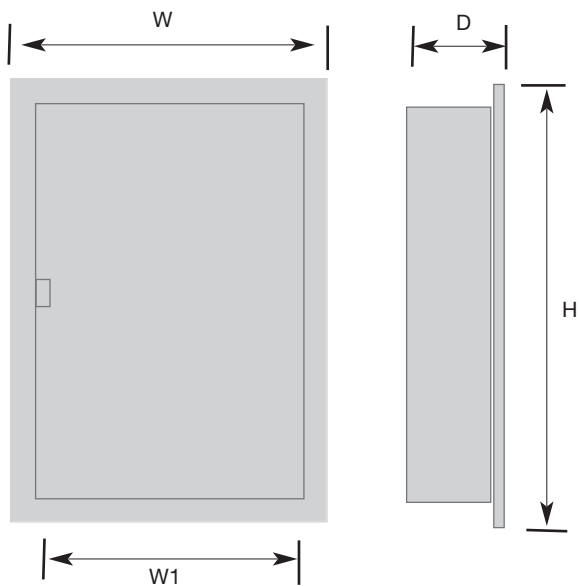
<i>Cat. Ref.</i>	<i>Dimensions</i>					
	<i>H</i>	<i>W</i>	<i>D</i>	<i>H1</i>	<i>W1</i>	<i>D1</i>
Surface						
JK1B04S1	495	405	115	490	400	110
JK1B06S1	555	405	115	550	400	110
JK1B08S1	605	405	115	600	400	110
JK1B10S1	660	405	115	655	400	110
JK1B12S1	715	405	115	710	400	110
JK1B14S1	770	405	115	765	400	110
JK1B16S1	820	405	115	815	400	110
JK1B18S1	940	405	115	935	400	110
JK1B24S1	1105	405	115	1100	400	110

TPN 125 type B distribution boards
- split busbar

<i>Cat. Ref.</i>	<i>Dimension</i>					
	<i>H</i>	<i>W</i>	<i>D</i>	<i>H1</i>	<i>W1</i>	<i>D1</i>
Surface						
JK1B022S1	555	445	115	550	440	110
JK1B042S1	610	445	115	605	440	110
JK1B044S1	665	445	115	660	440	110
JK1B062S1	665	445	115	660	440	110
JK1B064S1	720	445	115	715	440	110
JK1B066S1	775	445	115	770	440	110
JK1B082S1	720	445	115	715	440	110
JK1B084S1	775	445	115	770	440	110
JK1B086S1	830	445	115	825	440	110
JK1B088S1	885	445	115	880	440	110
JK1B104S1	935	445	115	930	440	110

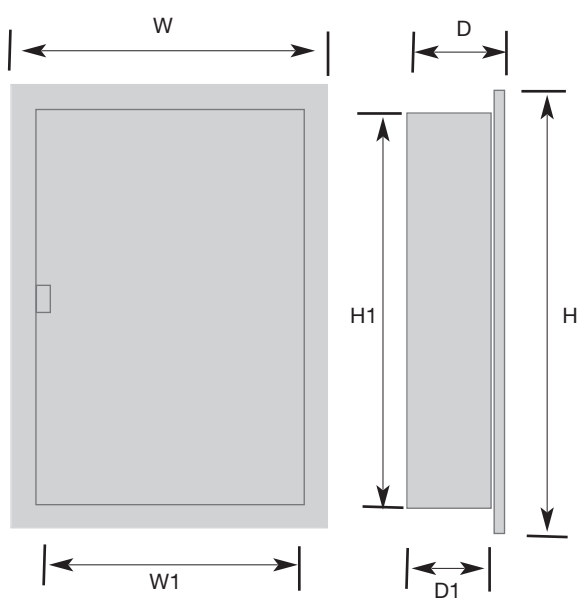
Invicta 63 - TP & N distribution boards

200A incoming, 63A outgoing



<i>Cat. Ref.</i>	<i>Dimension</i>			
	<i>H</i>	<i>W</i>	<i>D</i>	<i>W1</i>
JD06P	485	385	105	265
JD12P	585	385	105	265
JD18P	705	385	105	265
JD24P	805	385	105	265

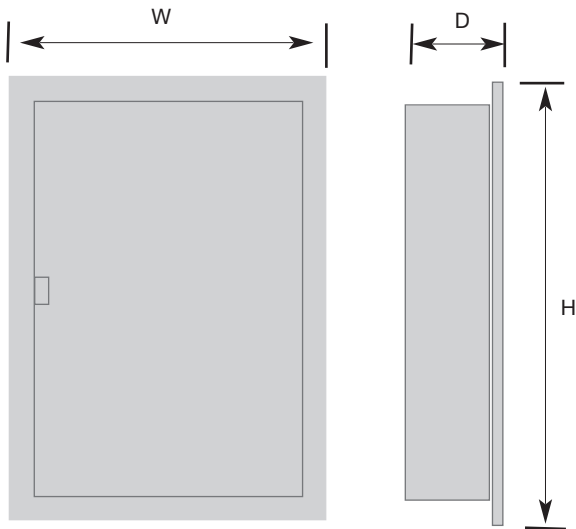
TPN 250 type B distribution boards



<i>Cat. Ref.</i>	<i>Dimension</i>					
	<i>H</i>	<i>W</i>	<i>D</i>	<i>H1</i>	<i>W1</i>	<i>D1</i>
Surface						
JK2B04S1	655	445	115	650	440	110
JK2B06S1	705	445	115	700	440	110
JK2B08S1	760	445	115	755	440	110
JK2B10S1	815	445	115	810	440	110
JK2B12S1	865	445	115	860	440	110
JK2B14S1	920	445	115	915	440	110
JK2B16S1	975	445	115	970	440	110
JK2B18S1	1030	445	115	1025	440	110
JK2B24S1	1195	445	115	1190	440	110

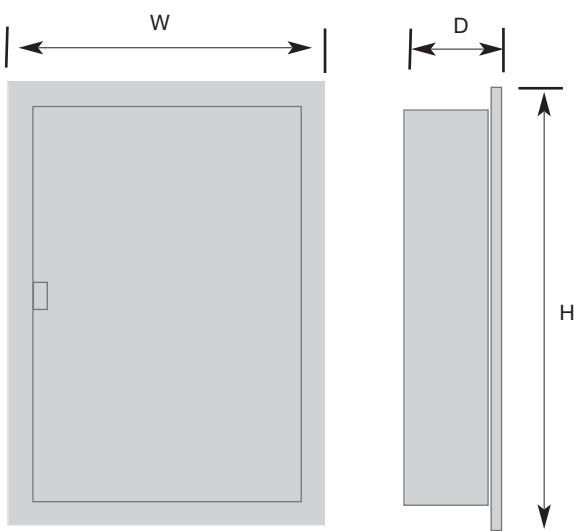
Invicta - 250A panel boards system 250A incoming, 125A outgoing

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<i>Cat. Ref.</i>	<i>Dimension</i>		
	<i>H</i>	<i>W</i>	<i>D</i>
Surface mounted			
JN2B00002S1	700	615	160
JN2B00004S1	775	615	160
JN2B00006S1	850	615	160
JN2B00008S1	925	615	160
JN2B00010S1	1000	615	160
JN2B00012S1	1115	615	160
JN2B00016S1	1375	615	160

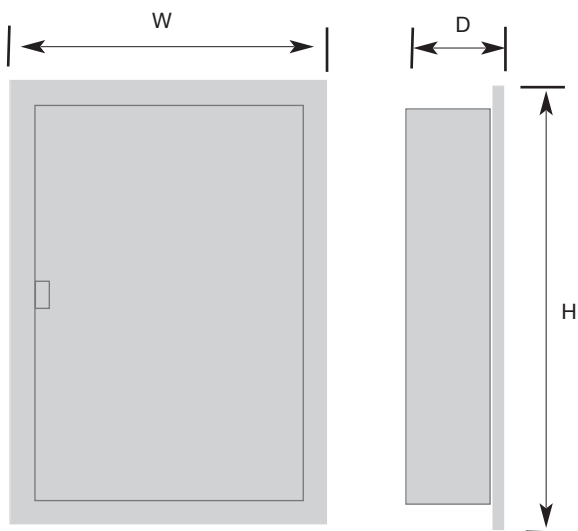
Invicta 400A panel board system 125A/ 250A incoming



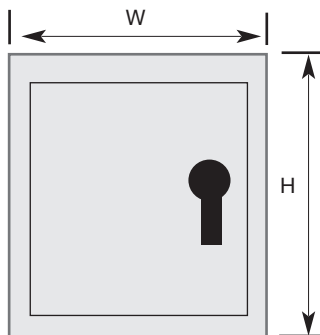
<i>Cat. Ref.</i>	<i>Dimension</i>		
	<i>H</i>	<i>W</i>	<i>D</i>
Surface mounted			
JN4B00004S1	930	690	200
JN4B00006S1	1005	690	200
JN4B00008S1	1080	690	200
JN4B00010S1	1155	690	200
JN4B00012S1	1230	690	200
JN4B00016S1	1380	690	200
JN4B00202S1	960	846	200
JN4B00204S1	1035	846	200
JN4B00206S1	1110	846	200
JN4B00208S1	1185	846	200
JN4B00210S1	1260	846	200
JN4B00214S1	1410	846	200

Invicta - 800A panel board system

125A / 250A / 400A outgoing

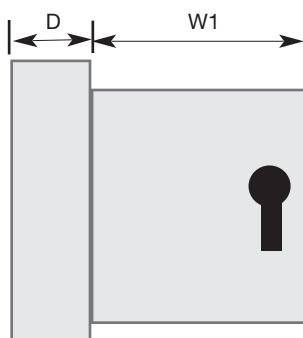


<i>Cat. Ref.</i>	<i>Dimension</i>		
	<i>H</i>	<i>W</i>	<i>D</i>
Surface			
JN8B00004S1	1035	846	200
JN8B00006S1	1110	846	200
JN8B00008S1	1215	846	200
JN8B00010S1	1320	846	200
JN8B00012S1	1410	846	200
JN8B00016S1	1620	846	200
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JN8B00400S1	1095	846	200
JN8B00600S1	1200	846	200
JN8B00800S1	1305	846	200
JN8B01000S1	1410	846	200
JN8B01200S1	1515	846	200
JN8B01600S1	1725	846	200
<hr/>			
JN8B00202S1	1065	846	200
JN8B00204S1	1140	846	200
JN8B00206S1	1215	846	200
JN8B00208S1	1320	846	200
JN8B00210S1	1410	846	200
JN8B00214S1	1560	846	200
<hr/>			
JN8B00402S1	1170	846	200
JN8B00404S1	1245	846	200
JN8B00406S1	1350	846	200
JN8B00408S1	1440	846	200
JN8B00410S1	1650	846	200
<hr/>			
JN8B00606S1	1485	846	200
JN8B00608S1	1620	846	200



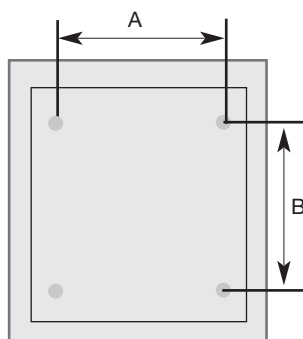
Cat. ref. Enclosed	Product Type	Rating	Dimension					
			H	W	D	W1	A	B
1								
JFB202	SPSN	20A / A1	250	200	150	182	120	172
JFB302	TPN	20A / A1	250	200	150	182	120	172
JFB402	TPSN	20A / A1	250	200	150	182	120	172
JFB203	SPSN	32A / A1	250	200	150	182	120	172
JFB303	TPN	32A / A1	250	200	150	182	120	172
JFB403	TPSN	32A / A1	250	200	150	182	120	172

3								
JFD206	SPSN	63A / A2-A3	325	300	150	282	190	217
JFD306	TPN	63A / A2-A3	325	300	150	282	190	217
JFD406	TPSN	63A / A2-A3	325	300	150	282	190	217



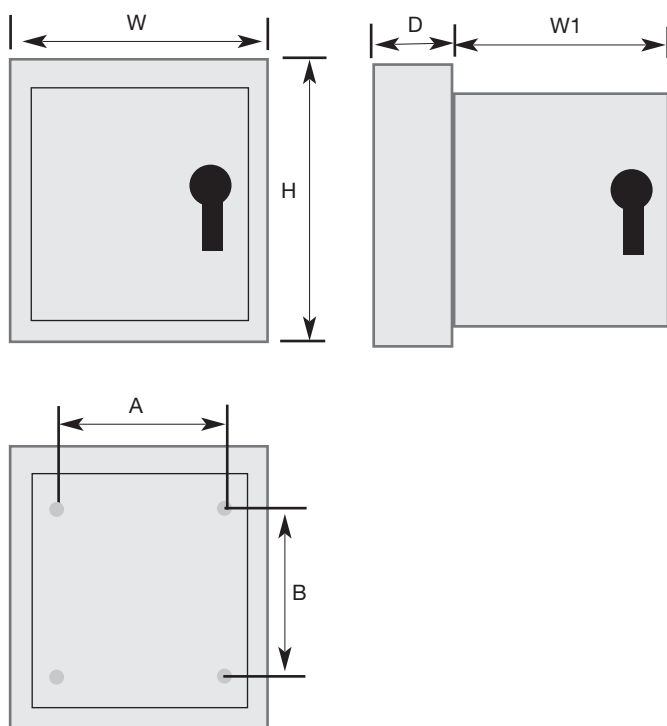
4								
JFE210	SPSN	100A / A4	400	375	200	357	265	292
JFE310	TPN	100A / A4	400	375	200	357	265	292
JFE410	TPSN	100A / A4	400	375	200	357	265	292

6								
JFG312	TPN	125A / B1-B2	500	375	200	357	265	380
JFG412	TPSN	125A / B1-B2	500	375	200	357	265	380
JFG316	TPN	160A / B1-B2	500	375	200	357	265	380
JFG416	TPSN	160A / B1-B2	500	375	200	357	265	380
JFG320	TPN	200A / B1-B2	500	375	200	357	265	380
JFG420	TPSN	200A / B1-B2	500	375	200	357	265	380
JFG325	TPN	250A / B1-B3	500	375	200	357	265	380
JFG425	TPSN	250A / B1-B3	500	375	200	357	265	380



7								
JFH331	TPN	315A / B1-B3	650	500	300	481.5	390	529
JFH431	TPSN	315A / B1-B3	650	500	300	481.5	390	529
JFH340	TPN	400A / B1-B4	650	500	300	481.5	390	529
JFH440	TPSN	400A / B1-B4	650	500	300	481.5	390	529

8								
JFI363	TPN	630A / C1-C2	800	600	350	581.5	490	679
JFI463	TPSN	630A / C1-C2	800	600	350	581.5	490	679
JFI380	TPN	800A / C1-C3	800	600	350	581.5	490	679
JFI480	TPSN	800A	800	600	350	581.5	490	679



Reference no.	Dimension					
	H	W	D	W1	A	B
JAB302	250	180	105	177	110	172
JAB402	250	180	105	177	110	172
JAB303	250	180	105	177	110	172
JAB403	250	180	105	177	110	172
JAB306	250	180	105	177	110	172
JAB406	250	180	105	177	110	172

JAB310	250	200	150	182	130	172
JAB410	250	200	150	182	130	172
JAC312	300	250	150	232	140	192
JAC412	300	250	150	232	140	192
JAC316	300	250	150	232	140	192
JAC416	300	250	150	232	140	192

JAE320	400	375	200	357	265	292
JAE420	400	375	200	357	265	292
JAE325	400	375	200	357	265	292
JAE425	400	375	200	357	265	292

JAG331	500	200	375	357	265	380
JAG431	500	200	375	357	265	380
JAG340	500	200	375	357	265	380
JAG440	500	200	375	357	265	380

JAH363	650	500	300	481.5	390	529
JAH463	650	500	300	481.5	390	529
JAH380	650	500	300	481.5	390	529
JAH480	650	500	300	481.5	390	529
JAH390	1058	750	300	732.0	640	937
JAH392	1058	750	300	732.0	640	937

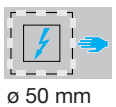
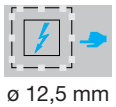
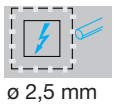
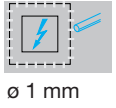
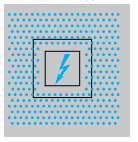
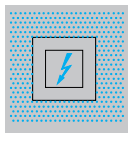
The International Protection (IP) code for all low voltage enclosures up to 1000 V a.c. and 1500 V d.c. is defined in identical fashion by the standards BS EN 60529 - IEC 529 it comprises the letters IP followed by two character numerals:

The first character numeral indicates the degree of protection provided by the enclosure with respect to persons, also to the equipment inside the enclosure

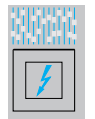
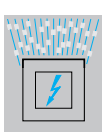
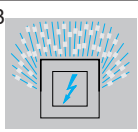
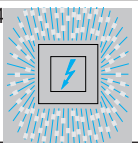
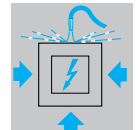
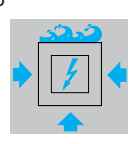
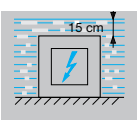
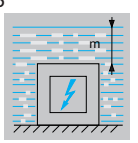
The second character numeral indicates the degree of protection provided by the enclosure with respect to harmful ingress of water; a third character may be used to indicate mechanical strength.

An x signifies that no test has been carried out

The first character numeral protection against solid substances

IP	Test	Short Description	Definition
0		Non-protected	No special protection
1		Protected against solid objects greater than 50 mm	A large surface of the body, such as a hand (but no protection against deliberate access) solid objects exceeding 50 mm in diameter
2		Protected against solid objects greater than 12.5 mm	Fingers or similar objects not exceeding 80 mm in length; solid objects exceeding 12.5 mm in diameter
3		Protected against solid objects greater than 2.5 mm	Tools, wires, etc., of diameter or thickness greater than 2.5 mm; solid objects exceeding 2.5 mm in diameter
4		Protected against solid objects greater than 1.0 mm	Wires or strips of thickness greater than 1.0 mm; solid objects exceeding 1.0 mm in diameter
5		Dust-protected	Ingress of dust is not totally prevented but dust does not enter in sufficient quantity to interfere with satisfactory operation of the equipment
6		Dust-tight	No ingress of dust

The second character numeral protection against liquid substances

IP	Test	Short Description	Definition
0		Non-protected	No special protection
1		Protected against dripping water	Dripping water (vertically falling drops) shall have no harmful effect
2		Protected against dripping water when tilted up to 15°	Vertically dripping water shall have no harmful effect when the enclosure is tilted at any angle up to 15° from its normal position
3		Protected against spraying water	Water falling as a spray at an angle up to 60° from the vertical shall have no harmful effect
4		Protected against splashing water	Water splashed against the enclosure from any direction shall have no harmful effect
5		Protected against water jets	Water projected by a nozzle against the enclosure from any direction shall have no harmful effect
6		Protected against heavy seas	Water from heavy seas or water projected in powerful jets shall not enter the enclosure in harmful quantities
7		Protected against the effect of immersion	Ingress of water in a harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time
8		Protected against submersion	The equipment is suitable for continuous submersion in water under conditions which shall be specified by the manufacturer