

Invicta 3 125A TP&N Distribution Boards

A range of Type B TPN Distribution boards with factory fitted 4 pole switch and type II SPD with high aesthetics ideal for commercial offices, healthcare and education projects where the boards may be sited in public areas.

Conforming the BS EN 61439-3, the Invicta boards are factory fitted with 125A 4 pole switch disconnecter and a type II surge protection device to ensure efficient integration in to the buildings electrical supply model.
A 250A TP&N board range is also available for higher load applications.



Description	Cat ref. Glazed door
4 Triple Pole Ways 125A TP&N Board with 4 Pole s/w + Type II Surge Protection	JK104BGSPD
6 Triple Pole Ways 125A TP&N Board with 4 Pole s/w + Type II Surge Protection	JK106BGSPD
8 Triple Pole Ways 125A TP&N Board with 4 Pole s/w + Type II Surge Protection	JK108BGSPD
12 Triple Pole Ways 125A TP&N Board with 4 Pole s/w + Type II Surge Protection	JK112BGSPD
16 Triple Pole Ways 125A TP&N Board with 4 Pole s/w + Type II Surge Protection	JK116BGSPD
18 Triple Pole Ways 125A TP&N Board with 4 Pole s/w + Type II Surge Protection	JK118BGSPD
24 Triple Pole Ways 125A TP&N Board with 4 Pole s/w + Type II Surge Protection	JK124BGSPD
MID Meter Enclosure Kit	Cat Ref.
Multifunctional MID meter enclosure Modbus (Fits below the distribution board)	JKD1125MID

Surge Protection Product Description

A Surge protection device (SPD) Developed to ensure optimal performance of SPD technology within Hager distribution boards. SPD is CT2 type to ensure compatibility with all common UK Earthing arrangements e.g. TN-C-S (PME), TN-S and TT earthing arrangements. This is an IEC Type 2 / class II SPD for 3 – phase power supply networks. A type 2 SPD is generally used in sub-distribution boards, downstream of the primary board which may incorporate a Type 1 SPD.

The effective performance of the SPD (U_p effective), SPD performance coordination with upstream Type 1 SPD within Hager MCCB Panelboards has been verified.

Key Specifications

- Power Supply System -TN / TT
- Requirement class -SPD class II acc. to IEC 61643-11; SPD Type 2 acc. to EN 61643-11
- Max. continuous operating voltage U_c -L-N: 275 V a.c. /N
- PE: 260 V a.c.
- Nominal voltage U_n -230/400 V AC 50/60 Hz
- Nominal discharge current I_n (8/20) microseconds 20 kA
- Max. discharge current I_{max} (8/20) microseconds 40 kA

SPD Protection level U_p -L-N: < 1.35 kV/ N-PE: <1.5 kV

Solution Protection level U_p effective (measured at the main busbars on the TPN board) -L-N: <1.5kV/ N-PE: < 1.5kV

Short-circuit current rating I_{SCCR} -25kA

Degree of protection - IP20

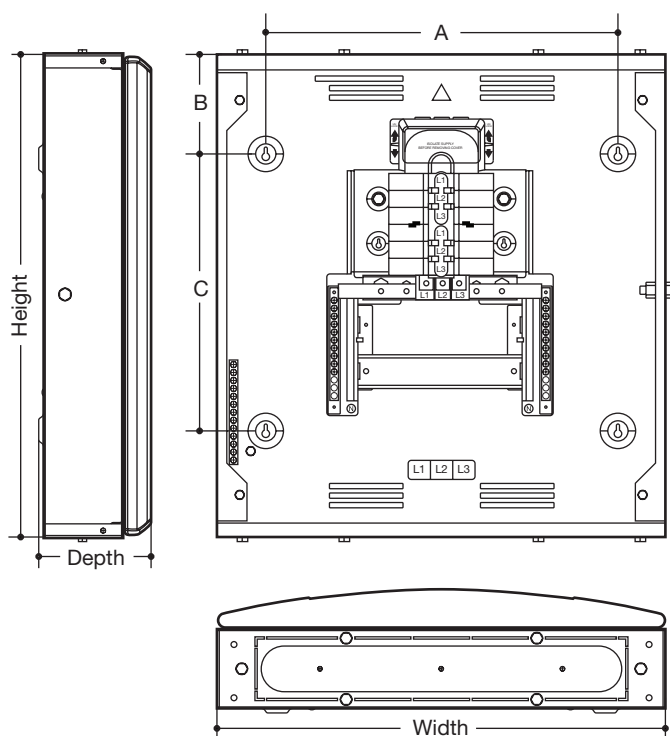


Technical Characteristics

Standards	Designed, manufactured and tested to BS EN 61439-3
Busbar Current Rating	125A
Busbar Type	Fully shrouded copper
Busbar Rating	25kA Conditional
Incoming	125A Switch disconnecter with Type II surge Protection
Outgoing Ways	4, 6, 8, 12, 16, 18, 24 Triple pole outgoing ways
Outgoing Protection	Type B MCB (6A to 63A, 1P & 3P) Type C, D MCB, (0.5A to 63A, 1P & 3P) 1Mod and 2Mod RCBO
Voltage Rating in AC	230 / 415V
IP Protection	IP3X to BS EN 60529
Enclosure Body Type	Steel
Enclosure Paint Type	Powder Coat Grey White BS4800 00A01
Cable Entry	Obround protected cable entry points
Terminal Connection Capacity	
Incoming Line Terminal	50mm ²
Incoming Earth Terminal	M8 stud
Incoming Neutral Terminal	50mm ² cage or M6 stud
Outgoing Earth Terminals	16mm ²
Outgoing Neutral Terminals	16mm ²
Enclosure Earth Stud	M8
Installation	
Mounting	4 x key hole fixing holes plus central top key hole for one fixing hanging / levelling Surface Wall Mount
Gland Plate	Top and bottom removable
Integrated Locking System	Coin lock as standard, key lock as accessory

Devices

MCB 10kA 0.5A to 63A	NBN***	NCN***	NDN***		
RCBO 10kA 6A to 45A	ADB***	ADC***	ADA1**	ACB***	ACC***



125A Primary Boards

	Dimensions (mm)			Fixing Centres (mm)		
	Height	Width	Depth	A	B	C
JK104BGSPD	500	465	132.5	365	100	300
JK106BGSPD	550	465	132.5	365	100	350
JK108BGSPD	625	465	132.5	365	100	425
JK112BGSPD	850	465	132.5	365	100	650
JK116BGSPD	950	465	132.5	365	100	750
JK118BGSPD	1100	465	132.5	365	100	900
JK124BGSPD	1250	465	132.5	365	100	1050