

Invicta 3 Hybrid 250A TP&N Distribution Boards

A hybrid distribution board combining 2x Triple Pole ways of 27mm MCB devices to supply end loads up to 125A, with standard 18mm MCB/RCBOs for other smaller loads.

The Hybrid Distribution board conforming to BS EN 61439-3, provides an efficient solution for Electrical Distribution in smaller commercial building applications. Where there is only a small number of loads above 63A are required, a Hybrid board can potentially remove the need for a separate MCCB Panelboard. A range of incoming device options provide further flexibility. Outgoing devices have dual ratings to BS EN 60898 and IEC/EN 60947-2.



Description	Cat ref. Plain Door	Cat ref. Glazed Door
Hybrid 250A Distribution Boards - Supplied with 250A 3P Switch Disconnecter Incomer Pre-Fitted		
250A 2+10 Way Hybrid TPN Board	JK20210BSD	JK20210BGSD
250A 2+16 Way Hybrid TPN Board	JK20216BSD	JK20216BGSD
250A 2+20 Way Hybrid TPN Board	JK20220BSD	JK20220BGSD
Hybrid 250A TPN Distribution Boards Without Incomer Supplied		
250A 2+10 Way Hybrid TPN Board	JK20210B	JK20210BG
250A 2+16 Way Hybrid TPN Board	JK20216B	JK20216BG
250A 2+20 Way Hybrid TPN Board	JK20220B	JK20220BG
Incomer Kits for 250A Boards		Cat ref.
3 Pole 250A MCCB Incomer Kit (Fits within distribution board)		JK22503M
4 Pole 250A MCCB Incomer Kit (Fits within distribution board)		JK22504M
3 Pole 250A Switch Disconnecter Incomer Kit (Fits within distribution board)		JK22503S
4 Pole 250A Switch Disconnecter Incomer Kit (Fits within distribution board)		JK22504MCS
4 Pole 250A Direct Connection Kit (Fits within distribution board)		JK22504D
4 Pole 160A Contactor Incomer Kit includes Switch Disconnecter (fits below distribution board, 450mm high)		JK21604C
3 Pole 125A MCCB Incomer Kit (Fits within distribution board)		JK21253M
4 Pole 125A MCCB Incomer Kit (Fits within distribution board)		JK21254M

Features & Benefits

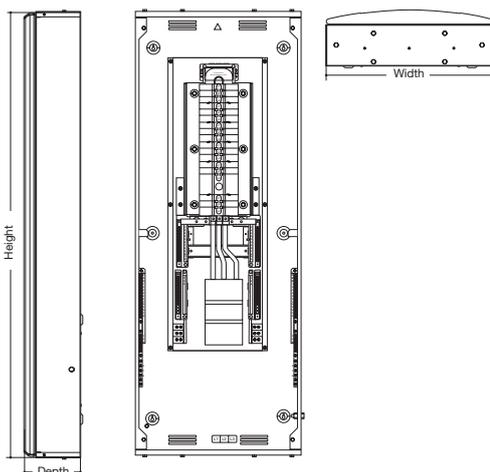
- Loads up to 125A SP/TP can be served from this TP&N distribution board.
- Factory fitted switch disconnecter incomer option simplifies product selection and installation.
- Specific larger earth and neutral connection points manage 'associated cable sizes' at higher current ratings.
- Blank module available as an accessory to provide a safe finished installation (Standard blank: **JK01B**, 27mm blank: **JK02B**)

Technical Characteristics

Rated & operational voltage (U_n / U_e)	415V a.c. 50Hz
Rated insulation voltage (U_i)	690V a.c. 50Hz
Rated impulse withstand voltage (U_{imp})	4kV
Rated current of the Assembly (I_{nA})	JK202B(G) 200A JK2xxx 250A ¹ ¹ or rating of incoming circuit / incomer kit whichever is lower
Rated current of an Outgoing circuit (I_{nC})	MCB 0.5A - 63A (marked rated current on device) MCB 80A - 125A (marked rated current on device HMC***T, HMD***T MCB's only) RCBO 6A - 45A (marked rated current on device)
Rated conditional short-circuit current of the ASSEMBLY (I_{CC}) 10kA ¹ with equipment and arrangements specified in Hager's technical documentation / catalogue.	MCB/RCBO 10kA rating applied as BS EN 61439-3 is intended for use by ordinary persons. ¹ Current limitation characteristics specified in Hager's technical documentation / catalogue
Protection against electric shock	DBO shall be installed in an electrical system conforming to IEC 60364 / BS 7671
Rated diversity factor (RDF) / Values of assumed loading 2 way - 3 way = 0.8 6 way - 8 way = 0.6 10 way - 24 way = 0.5	
Note: RDF only applies to continuously and simultaneously loaded circuits.	
Rated frequency (fn)	50 Hz
Pollution degree	2
Types of system earthing for which the ASSEMBLY is designed TNC-S, TN-S and TT when installed in an electrical system conforming to BS 7671	
Intended locations	Indoor use only
Stationary ASSEMBLY	
Degree of protection	IP3XD with Door Closed IP2XC with Door Open and compliment of outgoing devices and or blanks fitted.
Intended use	Distribution boards intended to be operated by ordinary persons (DBO)
Electromagnetic compatibility (EMC) classification	EMC Environment B
External design	Wall-mounted, surface type, enclosed assembly.
Mechanical impact protection	IK05
The type of construction	Fixed parts
DBO Type	Type B DBO
Incoming Live Terminal	M8 Lug
Incoming Neutral Terminal	M8 Lug
Enclosure Earth Stud	M8
Outgoing Neutral & Earth Terminal	50mm ² / 16mm ²

Devices

MCB 10kA 0.5A to 63A	NBN***	NCN***	NDN***		
RCBO 10kA 6A to 45A	ADB***	ADC***	ADA1**	ACB***	ACC***
MCB 10kA / 15kA 80A to 125A	HMC***	HMD***			



Hybrid 250A TPN Distribution Boards

	Dimensions (mm)		
	Height	Width	Depth
JK20210B/BG	1250	465	165.5
JK20216B/BG	1400	465	165.5
JK20220B/BG	1400	465	165.5
JK20210B/BGSD	1250	465	165.5
JK20216B/BGSD	1400	465	165.5
JK20220B/BGSD	1400	465	165.5