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EXCEPTIONAL QUALITY EVERY TIME



SPN / TPN DISTRIBUTION BOARDS

**الوطن**  
أنظمة التوزيع  
**ALWATAN**  
DISTRIBUTION SYSTEMS

AL WATAN Switchgear Company LLC  
P.Box 2594, PC 112 Ruwi, Wadi Kabir,  
Muscat, Sultanate of Oman

# Product Description

Al Watan new range of SPN/TPN distribution boards fully complies with IEC/EN 61439-1 & 3, This range include 4 module to 16 module with multiple configurations and meets most demands. The design and features of Single Phase Distribution Boards (DB) and Three Phase Distribution Boards (DB) are crucial for ensuring safe and efficient electrical distribution. With outstanding features , the new range SPN/TPN unit are ideal for both domestic & commercial installations where quality is essential.



# Features

- Fully Equipped DB's supplied with busbar, earth link, Neutral link & interconnecting links.
- Steel made unit fully comply with BS7671 amendment 3
- Enclosure finished in powder coated in RAL7035
- Tripod holes for installation on uneven surface
- Pre-cut busbar with shroud ready to use
- Knockout on the top, bottom, rear & two sides for flexible cabling
- Large space inside the unit for easy wiring
- N/PE terminal label with color for clear Identification
- All doors & frames are deep drawn for better aesthetic & built for long life.
- The three-phase DB features a 'Reversible Door' that can be opened from either side.
- Removable busbar assembly to assist installation
- Removable door aids installation and 'easy hang' hinge design makes re-attachment of door simple.
- 10years of warranty

(\*Warranty not applicable for breakers)

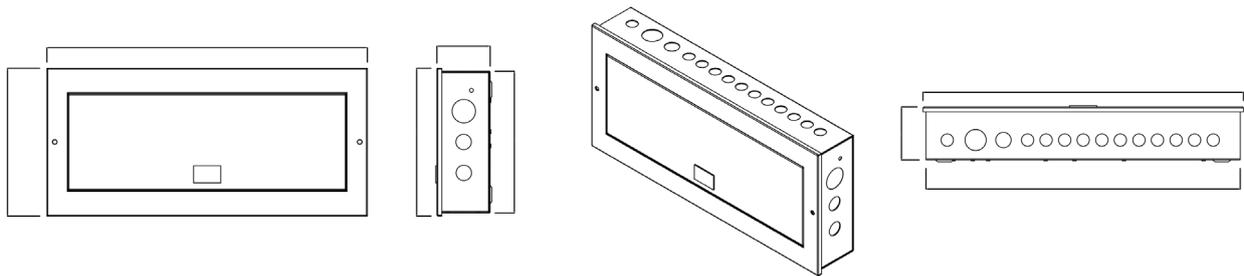
# Technical Data

SPN DISTRIBUTION BOARD	
Rated Current of the assembly (In)	100A
Rated operational Voltage (V)	240V AC
Rated insulation voltage (Ui)	500V AC
Rated Frequency (Hz)	50/60Hz
Rated Impulse withstand voltage (Uimp)	4.0kV
Rated Short Circuit withstand current (Icw)	10kA
Standard - IEC/EN	Comply with IEC/EN 61439-1 & 61439-3
Body type	Cold steel with 1.0mm thickness
Type Of DB	Plug in type
Mounting Type	Universal Type ( Surface / Flush)
Protection Degree (IP)	IP30
Impact Resistance (IK)	IK054
No.of way	4/6/8/12
Terminal	Supplied with neutral & earth terminal.
Incoming	Switch disconnecter & RCCB (40A,63A, 100A with 30/100/300mA sensitivities)
Outgoing	6A to 63A Single Pole MCB / RCBO

TPN DISTRIBUTION BOARD	
Rated Current of the assembly (In)	125A
Rated operational Voltage (V)	415V AC
Rated insulation voltage (Ui)	500V AC
Rated Frequency (Hz)	50/60Hz
Rated Impulse withstand voltage (Uimp)	4.0kV
Rated Short Circuit withstand current (Icw)	18kA/0.2s
Standard - IEC/EN	Comply with IEC/EN 61439-1 & 61439-3
Body type	Cold steel with 1.0mm thickness
Type Of DB	Plug in type
Mounting Type	Universal Type ( Surface / Flush)
Protection Degree (IP)	IP30
Impact Resistance (IK)	IK05
No.of way	4/6/8/10/12/16
Terminal	Supplied with neutral & earth terminal.
Incoming	Switch disconnecter / RCCB ( 40A,63A,100A with 30/100/300mA sensitivities)
Outgoing	6A to 63A Single Pole / Three Pole MCB / RCBO

PRODUCT DIMENSIONS - SPN DISTRIBUTION BOARD

No. of Ways	Main Rating	Item Code	Height (H)	Height (H)	Width (W)	Width (W)	Depth (D)
4 Way	100 A	AW 4CS	240 mm	230 mm	314 mm	304 mm	86 mm
6 Way	100 A	AW 6CS	240 mm	230 mm	365 mm	355 mm	86 mm
8 Way	100 A	AW 8CS	240 mm	230 mm	416 mm	406 mm	86 mm
12 Way	100 A	AW12CS	240 mm	230 mm	518 mm	508 mm	86 mm



PRODUCT DIMENSIONS - TPN DISTRIBUTION BOARD

No. of Ways	Main Rating	Item Code	Height (H)	Height (H)	Width (W)	Width (W)	Depth (D)
4 Way	125 A	AW12CT	507 mm	497 mm	358 mm	348 mm	106 mm
6 Way	125 A	AW18CT	583 mm	573 mm	358 mm	348 mm	106 mm
8 Way	125 A	AW24CT	659 mm	649 mm	358 mm	348 mm	106 mm
10 Way	125 A	AW30CT	735 mm	725 mm	358 mm	348 mm	106 mm
12 Way	125 A	AW36CT	811 mm	801 mm	358 mm	348 mm	106 mm
16 Way	125 A	AW48CT	952 mm	952 mm	358 mm	348 mm	106 mm

