

CIRCUIT PROTECTION

TPN DISTRIBUTION BOARDS



- Three Phase Distribution Boards
- Accessories
- Circuit Protection Devices



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INTRODUCTION

Introducing Our New Three-Phase Distribution Boards

We're excited to launch our new range of Three-Phase Distribution Boards, designed for efficient and reliable power distribution in industrial, commercial, and high-demand applications. Built with durability and safety in mind, these boards ensure balanced electrical loads, reducing the risk of overloads and enhancing system performance. With a robust design and easy installation, our latest distribution boards provide a seamless solution for managing three-phase power with confidence.

TPN Distribution Board complete with 16-Way Extension & Cable Box



Code	Ref No	Free Ways	Incomer Included	IP Rating	Height [mm]	Width [mm]	Depth [mm]
2840-6953	TPN4-125SPD	4	125A	IP3X	510	450	135
2840-6956	TPN6-125SPD	6	125A	IP3X	564	450	135
2840-6959	TPN8-125SPD	8	125A	IP3X	618	450	135
2840-6947	TPN12-125SPD	12	125A	IP3X	726	450	135
2840-6950	TPN16-125SPD	16	125A	IP3X	834	450	135



Quick-release pan assembly



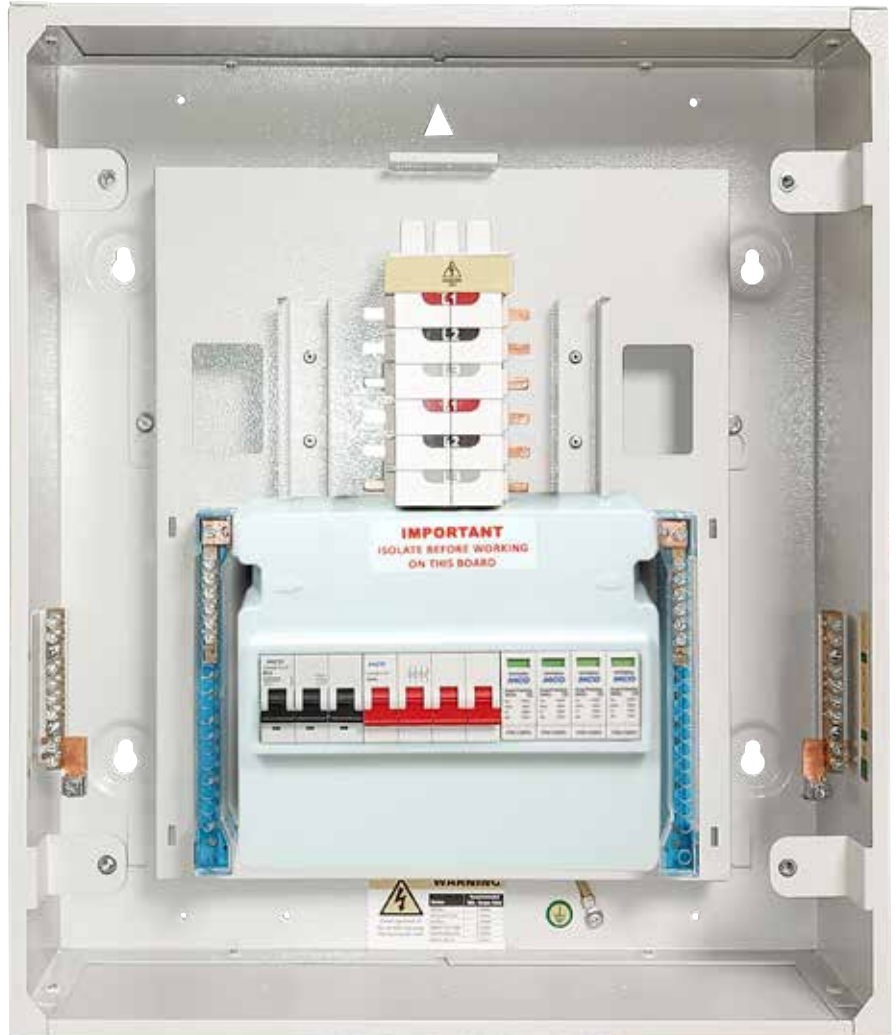
4 Pole 125A Switch Disconnecter, c/w 4 Pole SPD with MCB [supplied]

THREE PHASE DISTRIBUTION BOARDS

TPN DISTRIBUTION BOARDS

Features:

- Prewired SPD / MCB configuration
- offers optimum device space
- Quick release reversible door
- providing freedom and flexibility
- Lockable door - preventing unauthorised access
- Latching front cover - enables easier installation
- Rivet style screw holder - for rapid screw alignment
- Quick release top & bottom gland plates
- saves time negating screw removal
- Pre-punched drill points & centre mark on gland plates - for ease and convenience
- Raised keyhole mounting points
- improves airflow
- Triangular centre point - for an easy one person installation
- Removeable pan assembly - creates space for ease of cable dressing & reduces weight for fixing
- Frameless design - quick and easy installation
- Multiple earth & neutral bars - maximum space for ease of cable dressing
- Covered neutral bars & incoming devices
- to reduce live touch points



Scan the QR
Code to view the
product video



THREE PHASE DISTRIBUTION BOARDS**TPN DISTRIBUTION BOARDS - 16 MODULE EXTENSION BOX**Ref: **TPN-EXTB****Features:**

- 16 single way horizontal din rail extension box
- Constructed from steel and polyester powder coated to RAL7035
- Complete with cable extension box
- Quick release reversible door
- Complete with lock and 2 keys
- Rivet style screw holes
- Top or bottom mounting
- Raised keyhole installation points
- Pre-punched (dimpled) cable side entry points

TPN4-125SPD illustration complete with
Connector Block and 16-Way Extension Box

THREE PHASE DISTRIBUTION BOARDS

TPN DISTRIBUTION BOARDS - FEATURES



Quick-release Door with lock



Quick-release reversible door



Hinged front cover



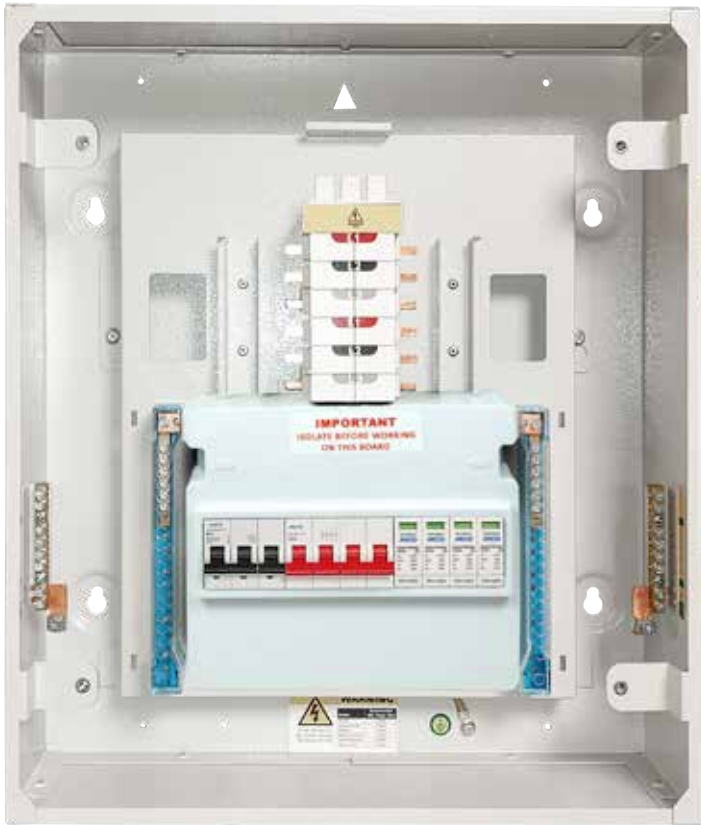
Detached cover



Keys included



Quick-release top & bottom Gland Plates



Quick assembly
Cable Extension Box
[optional accessory]



Quick assembly Grub Screw



Pre-punched Gland Plates



Raised stud



Rivet-style screw holes



Installation Triangle



Raised Keyhole Fixing



Blanking Plugs included

THREE PHASE DISTRIBUTION BOARDS

TPN DISTRIBUTION BOARDS - FEATURES



Quick-release pan assembly



Quick-release screw-less isolator cover



125A Incomer complete with pre-wired T2 SPD and protective MCB



Extension Terminal



Front cover knock-out for Extension Terminal



TPN-3CON Terminal Block [optional accessory]



Earth Terminals



Neutral Bars [covered]

VERTICAL BUSBAR RCBO'S

Designed specifically for Type B Vertical Busbar Distribution Boards.



32A2P30BSMTP



32A3P30CTPTP

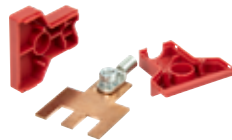
THREE PHASE DISTRIBUTION BOARDS

TPN DISTRIBUTION BOARDS - ACCESSORIES

A Range of accessories and spare parts for the MCG TPN range of three phase distribution boards.



TPN-EXTB
Extension Box



TPN-1PHCK
Single Phase
Conversion Kit



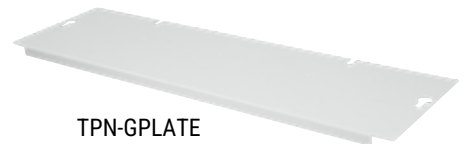
TPN-NKIT
Neutral Extension
Lugs



TPN-EKIT
Earth Extension
Lugs



TPN-CABB
Cable Box



TPN-GPLATE
Gland Plate



TPN-T2SPD
T2 Surge Device



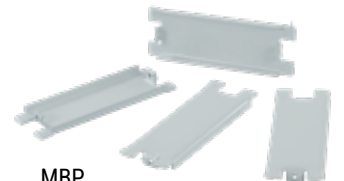
TPN-3CON
Extension Connector Block



TPN-DSCSET
Door Cover
Screw Set



TPN-INTSET
Pan Assembly
Screws



MBP
Metal Blanking Modules



BM1P
Blanking Module



TPN-BM
Plastic Blanking Modules

Code	Description	
ACCESSORIES		
2840-6932	TPN-EXTB	16 Module Extension Box, c/w N&E Terminals
2840-6923	TPN-CABB	TP&N Type B Board Cable Box H100 X W444 X D123mm
2840-6935	TPN-GPLATE	TP&N Type B Board Spare Gland Plate
2840-6944	TPN-T2SPD	40kA 4 Pole Type 2 SPD
2840-6917	TPN-1PHCK	Single Phase Conversion Kit
2840-6920	TPN-3CON	125A 3 Pole Connector Block Din Rail Mounted
2840-6941	TPN-NKIT	Neutral Extension Kit
2840-6929	TPN-EKIT	Earth Extension Kit
2840-6926	TPN-DSCSET	Spare Door Screws X 4
2840-6938	TPN-INTSET	Spare Pan Assembly / Gland Plate Screws X 2
2195-5240	MBP	Metal Module Blank X 4
1488-7189	TPN-BM	Blanking Module 3 MCB
2020-1194	BM1P	Blanking Module X 1



CIRCUIT PROTECTION

RCBO

- Correct orientation for **vertical busbar**
- Single and triple module options
- Positive contact indication
- B & C trip curve options
- 10kA rated
- Test button

Code	Ref No	Type	mA	Amps	Pole	Trip Curve	Body Type	Number of Modules	Short Circuit Rating
1P+N B Curve									
2579-4565	6A2P30BSMTP	A	30	6A	1P+N	B	Standard	1	10kA
2579-4496	10A2P30BSMTP	A	30	10A	1P+N	B	Standard	1	10kA
2579-4502	16A2P30BSMTP	A	30	16A	1P+N	B	Standard	1	10kA
2579-4511	20A2P30BSMTP	A	30	20A	1P+N	B	Standard	1	10kA
2579-4526	32A2P30BSMTP	A	30	32A	1P+N	B	Standard	1	10kA
2579-4538	40A2P30BSMTP	A	30	40A	1P+N	B	Standard	1	10kA
2579-4550	50A2P30BSMTP	A	30	50A	1P+N	B	Standard	1	10kA
1P+N C Curve									
2579-4568	6A2P30CSMTP	A	30	6A	1P+N	C	Standard	1	10kA
2579-4499	10A2P30CSMTP	A	30	10A	1P+N	C	Standard	1	10kA
2579-4505	16A2P30CSMTP	A	30	16A	1P+N	C	Standard	1	10kA
2579-4514	20A2P30CSMTP	A	30	20A	1P+N	C	Standard	1	10kA
2579-4529	32A2P30CSMTP	A	30	32A	1P+N	C	Standard	1	10kA
2579-4541	40A2P30CSMTP	A	30	40A	1P+N	C	Standard	1	10kA
2579-4553	50A2P30CSMTP	A	30	50A	1P+N	C	Standard	1	10kA
3P+N C Curve									
2579-4571	6A3P30CTPTP	A	30	6A	3P+N	C	Standard	3	10kA
2646-1396	10A3P30CTPTP	A	30	10A	3P+N	C	Standard	3	10kA
2579-4508	16A3P30CTPTP	A	30	16A	3P+N	C	Standard	3	10kA
2579-4517	20A3P30CTPTP	A	30	20A	3P+N	C	Standard	3	10kA
2579-4532	32A3P30CTPTP	A	30	32A	3P+N	C	Standard	3	10kA
2579-4544	40A3P30CTPTP	A	30	40A	3P+N	C	Standard	3	10kA
2579-4556	50A3P30CTPTP	A	30	50A	3P+N	C	Standard	3	10kA
2579-4562	63A3P30CTPTP	A	30	63A	3P+N	C	Standard	3	10kA



All circuit protection devices are manufactured in accordance with current standards and are independently tested.



Three Phase Distribution Board showing the correct orientated single and three module RCBO

CIRCUIT PROTECTION

ISOLATOR SWITCH

Features:

- Suitable for isolation to IEC 60947-3
- Insulated DIN rail clips
- Ergonomic hand grip for easy installation
- Red switch handle for rapid identification

Code	Ref No	Amp	Pole
2123-6860	125A4PI	125A	4



125A4PI

RCD

Features:

- Bidirectional
- Insulated din rail clips
- Type A & B options
- 2 & 4 Pole options
- Multiple ma sensitivity options
- Multiple amp over current ratings
- Time delay 'S' options
- Test button
- Fault tripping indication window



63A2P30BT

Code	Ref No	Type	mA	Time Delay	Amps	Pole	Short Circuit Rating
Type B 30mA							
2577-8737	63A4P30BT	B	30	-	63A	4	10kA
Type A 4P 30mA							
2579-4523	25A4P30AT	A	30	-	25A	4	6kA
2579-4547	40A4P30AT	A	30	-	40A	4	6kA
2579-4607	63A4P30AT	A	30	-	63A	4	6kA
2579-4613	80A4P30AT	A	30	-	80A	4	6kA
2579-4589	100A4P30AT	A	30	-	100A	4	6kA
Type A 4P 100mA							
2647-6999	80A4P100AT	A	30	-	80A	4	6kA
2579-4577	100A4P100AT	A	100	-	100A	4	6kA
2579-4583	100A4P300AT	A	100	-	100A	4	6kA

RCD TIME DELAY

Features:

- Bidirectional
- Type 's'
- 200-300MS time delay
- Insulated DIN rail clips
- Test button
- Fault tripping indication window



25A2P100ATD

Code	Ref No	Type	mA	Time Delay ms	Amps	Pole	Short Circuit Rating
4P 100mA							
2579-4580	100A4P100ATD	A	100	200 - 300ms	100A	4	6kA
4P 300mA							
2579-4586	100A4P300ATD	A	300	200 - 300ms	100A	4	6kA



TPN Distribution Board complete with 16-Way Extension & Cable Box



CIRCUIT PROTECTION

MCB

Features:

- Bidirectional
- Insulated DIN rail clips
- Ergonomic hand grip
- Multiple trip curve options
- Multiple pole options
- 6kA & 10kA options
- 1-3 Pole



1A1PB10



20A2PD10



40A3PD10

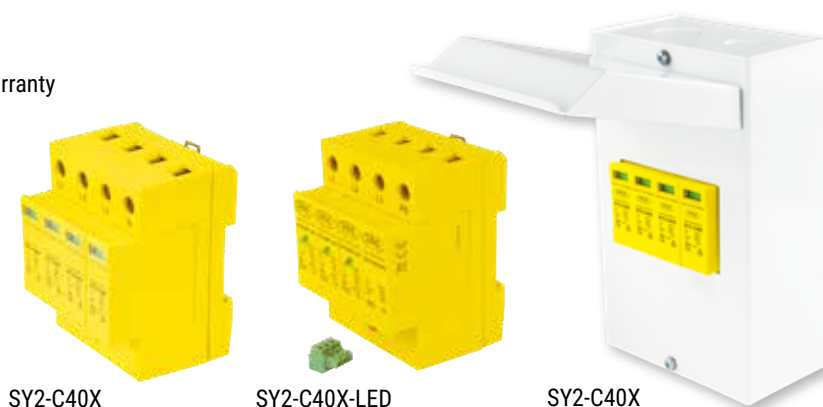
Code	Ref No	Amps	Pole	Trip Curve	No. of Modules	Short Circuit Rating
1P B Curve						
2123-6899	1A1PB10	1A	1P	B	1	10kA
2123-6959	2A1PB10	2A	1P	B	1	10kA
2123-7037	4A1PB10	4A	1P	B	1	10kA
2123-7112	6A1PB10	6A	1P	B	1	10kA
2123-6824	10A1PB10	10A	1P	B	1	10kA
2123-6863	16A1PB10	16A	1P	B	1	10kA
2123-6905	20A1PB10	20A	1P	B	1	10kA
2123-6938	25A1PB10	25A	1P	B	1	10kA
2123-6965	32A1PB10	32A	1P	B	1	10kA
2123-6998	40A1PB10	40A	1P	B	1	10kA
2123-7043	50A1PB10	50A	1P	B	1	10kA
2123-7076	63A1PB10	63A	1P	B	1	10kA
1P C Curve						
2123-6902	1A1PC10	1A	1P	C	1	10kA
2123-6962	2A1PC10	2A	1P	C	1	10kA
2123-7040	4A1PC10	4A	1P	C	1	10kA
2123-7118	6A1PC10	6A	1P	C	1	10kA
2123-6830	10A1PC10	10A	1P	C	1	10kA
2123-6869	16A1PC10	16A	1P	C	1	10kA
2123-6911	20A1PC10	20A	1P	C	1	10kA
2123-6941	25A1PC10	25A	1P	C	1	10kA
2123-6971	32A1PC10	32A	1P	C	1	10kA
2123-7004	40A1PC10	40A	1P	C	1	10kA
2123-7049	50A1PC10	50A	1P	C	1	10kA
2123-7082	63A1PC10	63A	1P	C	1	10kA
1P D Curve						
2123-7124	6A1PD10	6A	1P	D	1	10kA
2123-6836	10A1PD10	10A	1P	D	1	10kA
2123-6875	16A1PD10	16A	1P	D	1	10kA
2123-6917	20A1PD10	20A	1P	D	1	10kA
2123-6944	25A1PD10	25A	1P	D	1	10kA
2123-6977	32A1PD10	32A	1P	D	1	10kA
2123-7010	40A1PD10	40A	1P	D	1	10kA
2123-7055	50A1PD10	50A	1P	D	1	10kA
2123-7088	63A1PD10	63A	1P	D	1	10kA

Code	Ref No	Amps	Pole	Trip Curve	No. of Modules	Short Circuit Rating
2P D Curve						
2123-7133	6A2PD10	6A	2P	D	2	10kA
2123-6845	10A2PD10	10A	2P	D	2	10kA
2123-6884	16A2PD10	16A	2P	D	2	10kA
2123-6926	20A2PD10	20A	2P	D	2	10kA
2123-6986	32A2PD10	32A	2P	D	2	10kA
2123-7022	40A2PD10	40A	2P	D	2	10kA
2123-7064	50A2PD10	50A	2P	D	2	10kA
2123-7097	63A2PD10	63A	2P	D	2	10kA
3P B Curve						
2123-7136	6A3PB10	6A	3P	B	3	10kA
2123-6848	10A3PB10	10A	3P	B	3	10kA
2123-6887	16A3PB10	16A	3P	B	3	10kA
2123-6929	20A3PB10	20A	3P	B	3	10kA
2123-6989	32A3PB10	32A	3P	B	3	10kA
2123-7025	40A3PB10	40A	3P	B	3	10kA
2123-7067	50A3PB10	50A	3P	B	3	10kA
2123-7100	63A3PB10	63A	3P	B	3	10kA
3P C Curve						
2123-7139	6A3PC10	6A	3P	C	3	10kA
2123-6851	10A3PC10	10A	3P	C	3	10kA
2123-6890	16A3PC10	16A	3P	C	3	10kA
2123-6932	20A3PC10	20A	3P	C	3	10kA
2123-6992	32A3PC10	32A	3P	C	3	10kA
2123-7028	40A3PC10	40A	3P	C	3	10kA
2123-7070	50A3PC10	50A	3P	C	3	10kA
2123-7103	63A3PC10	63A	3P	C	3	10kA
3P D Curve						
2123-7142	6A3PD10	6A	3P	D	3	10kA
2123-6854	10A3PD10	10A	3P	D	3	10kA
2123-6893	16A3PD10	16A	3P	D	3	10kA
2123-6935	20A3PD10	20A	3P	D	3	10kA
2123-6995	32A3PD10	32A	3P	D	3	10kA
2123-7031	40A3PD10	40A	3P	D	3	10kA
2123-7073	50A3PD10	50A	3P	D	3	10kA
2123-7106	63A3PD10	63A	3P	D	3	10kA

SURGE PROTECTION DEVICES

SURGE ARRESTERS

- Specialist in the industry for over 40 years
- Protects sensitive electronic equipment
- Replaceable plug module
- 18th edition amendment
- 10 Year manufacturing defect warranty
- End of working life indication
- BS 7671 edition 18 compliant
- AC & DC options



SY2-C40X

SY2-C40X-LED

SY2-C40X



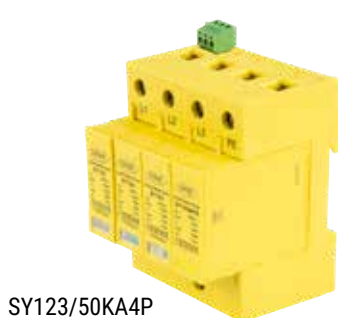
On all SPD Ltd products only

SURGE ARRESTERS T2 + T3 AC

Code	Ref No	Phase	Type	SPD Modules	Metal Enclosure Included	SPD Poles	MCB	Cable Kit Included	Max Discharge Current Module	Suitable for Earth Systems		
TPN Devices												
2433-7000	SY2-C40X	TPN	T2 +T3	4	-	4	-	-	40kA	-	TN-S	TN-C-S
2441-3887	SY2-C40XME	TPN	T2 +T3	4	ME4S	4	-	-	40kA	-	TN-S	TN-C-S
2606-4946	SY2-C40X-LED	TPN	T2 +T3	4	-	4	-	-	40kA	TT	TN-S	TN-C-S

LIGHTNING SURGE ARRESTERS T1 + T2 + T3 AC

Code	Ref No	Phase	Type	SPD Modules	SPD Poles	Max Discharge Current Module	Suitable for Earth Systems	
2462-7880	10020/4	TPN	T1 + T2 + T3	4	4	50kA	-	TN-S TN-C-S
2562-0751	SY123/50KA4P	TPN	T1 + T2 + T3	4	4	50kA	TT	TN-S TN-C-S



SY123/50KA4P



10811LED

Check out our Basics of SPD Selection video on YouTube

Please scan the QR code



SURGE PROTECTION DEVICES

SURGE ARRESTERS T2 PV SOLAR SYSTEMS

Code	Ref No	Phase	Type	SPD Modules	SPD Poles	Rating
2524-903	SPD PV600	DC	T2	3	[+ -]	600V DC
2524-900	SPD PV1000	DC	T2	3	[+ -]	1000V DC



SPD PV600



SPD PV1000

LIGHTNING SURGE ARRESTERS T1 + T2 PV SOLAR SYSTEMS

Code	Ref No	Phase	Type	SPD Modules	SPD Poles	Rating
2764-7161	LSPDPV1000	DC	T1 + T2	3	[+ -]	1000V DC



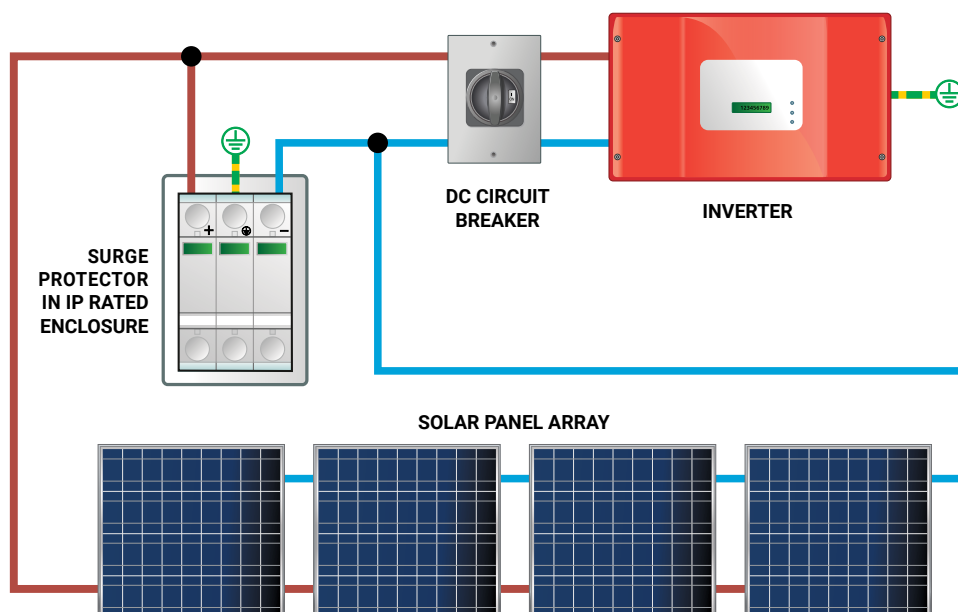
Please Note:

Other devices are also available for specific protection purposes such as:

- Telephones/Modems/Fax
- Coaxial
- CCTV
- Satellite
- Fire Alarms

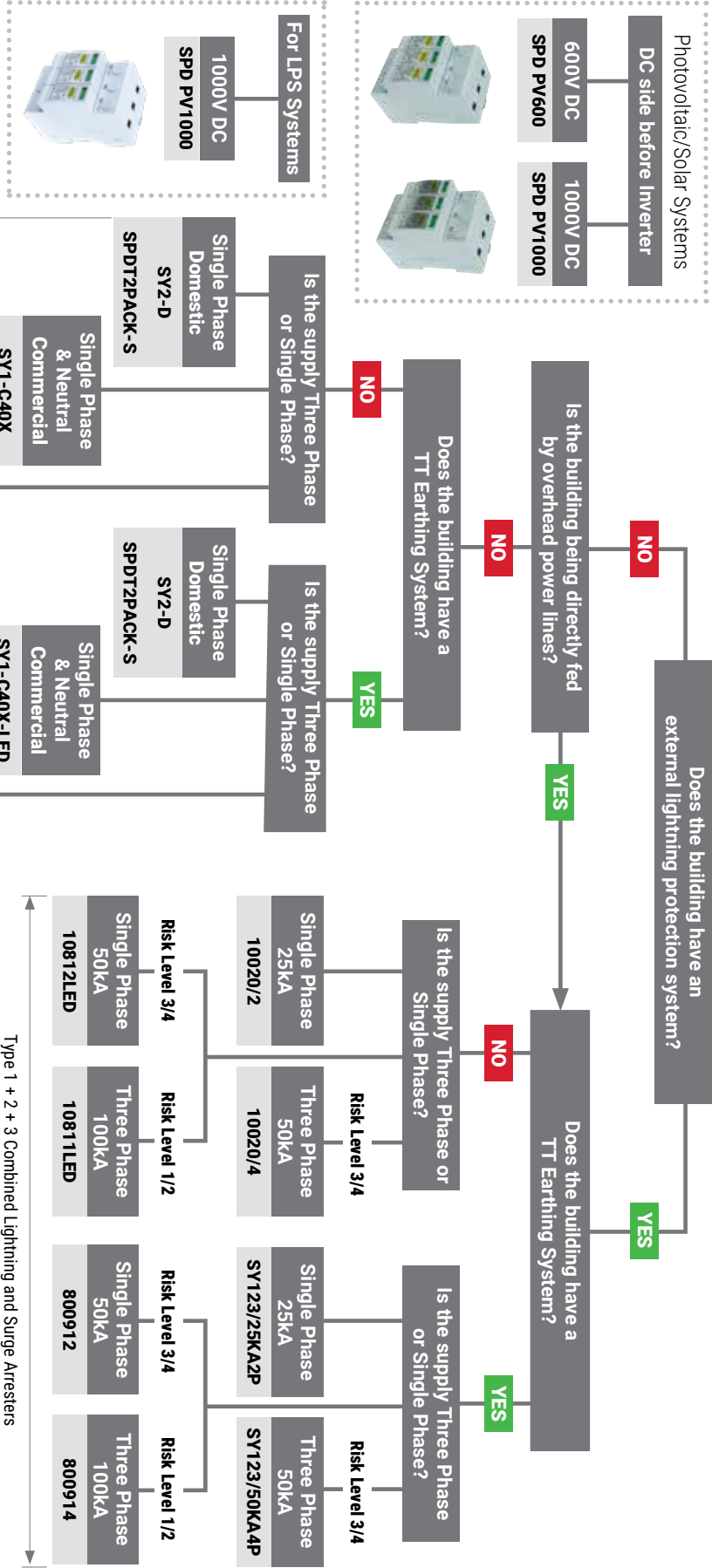
SURGE PROTECTION DEVICE IN A PHOTOVOLTAIC/SOLAR PANEL SYSTEM

For fitting a 600V DC or 1000V DC Surge Protection Device.

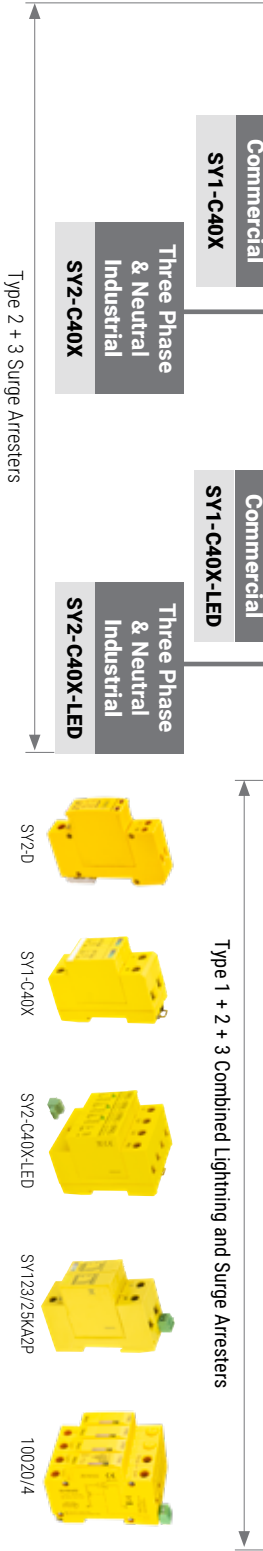


SURGE ARRESTER DEVICES SELECTION CHART

WHICH SURGE PROTECTION DEVICE DO I NEED?



USE THIS CHART TO CHOOSE YOUR DEVICE



Main Incoming Position - Type 1	Sub Dist. Board Position - Type 2	Final Sub Circuit - Type 3
PROTECTION AGAINST DIRECT LIGHTNING CURRENTS [LIGHTNING CURRENT ARRESTER] - 10/350µs	PROTECTION AGAINST INDIRECT LIGHTNING EFFECTS [SURGE ARRESTER] - 8/20µs	PROTECTION AGAINST SWITCHING OVERVOLTAGES [SURGE ARRESTER] - 8/20µs

Please Note: Devices are also available for specific protection, such as: Telephone/Fax/Modems, Co-axial/BNC/CCTV/Satellite, Power over Ethernet etc., as per BS7671:2018 - Further details on request.



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MCGCATCPTPNDB



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