Solid state relays
Zelio relay

Catalog

July 2013

Schneider Electric

How to find the “Automation and Control” products

Catalogs

Complete product ranges

Essential guides

Selection of the top selling products

General contents

Zelio relay - Solid state relays

Zelio relay - Solid state relays
Solid state slim relays

Zelio solid state relays
Choose long life and silent operation with Zelio SSRs

Long service life
due to electronic relay technology

Silent switching
suitable for building and hospital applications

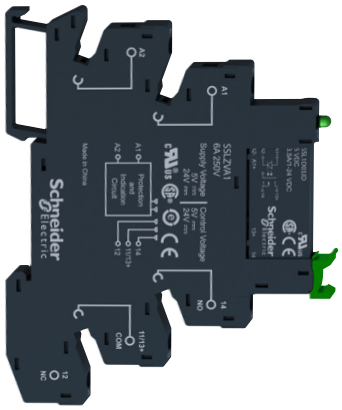
High switching frequency
particularly on packaging and textile machines

Zelio SSR series offer the slim, modular, and power types of solid state relays that provide consistent machine performance and reduce the size of your enclosures. The benefits like low maintenance, compactness, shock/vibration resistance *(1)*, and wide supply voltage range allows them to be used in heating, lighting, and motion control applications.

Choose technology with SSL relays

Slim relay-socket solution

- Offers various input and output configurations for both AC and DC switching applications.
- 5 mm/*0.197 in.* width relays (current ratings of 100 mA, 2 A, and 3.5 A) designed for plug-in mount on 6 mm/*0.236 in.* width sockets.
- Allows the customer to choose the combination of relays and associated sockets from the wide range available.



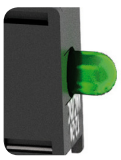
Slim relay mounted on socket

SSL relays + Sockets

Input/Control circuit voltage	Output/Load circuit voltage
⎓ 5-230 V	⎓ 1-48 V
⎓ 5-230 V	∿ 24-250 V
∿ 110-230 V	⎓ 1-48 V
∿ 110-230 V	∿ 24-250 V

Enhanced performance in any situation

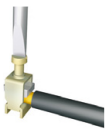
- Socket with integrated reverse polarity protection circuit and power-on/relay status LED indicator.
- Higher dielectric strength for 100 mA relays.
- IP 67 design and fully encapsulated.



LED indicator for relay status

Simplified installation and mounting

- Locking/unlocking lever for replacing relay from the socket.
- Simple mounting on DIN rail.
- Choice of screw connector and spring terminal connection for sockets.



Screw connector

Spring terminal

(1) According to IEC 60068-2-6 and IEC 600068-2-27 international standards.

SSL (Solid state slim) + **RSL** (Electromechanical slim) → **Plug-in interface solution**

Zelio relay - Solid state relays
Solid state modular relays

Choose modularity with SSM relays

Compact design
> Requires less panel space due to slim width and thus reduces the size of your enclosures.

11 mm/*0.433 in.*

SSM1: 6 A single channel, single-phase relay

18 mm/*0.709 in.*

SSM1: 12 A single channel, single-phase relay

SSM1 relays

Input/Control circuit voltage	Output/Load circuit voltage
⎓ 4-32 V	⎓ 1-48 V ⎓ 1-100 V
⎓ 4-32 V	∿ 24-280 V ∿ 48-600 V
∿ 18-36 V ∿ 90-140 V ∿ 200-265 V	∿ 24-280 V ∿ 48-600 V

18 mm/*0.709 in.*

SSM2: 6 A dual channel, single-phase relay

SSM2 relays

Input/Control circuit voltage	Output/Load circuit voltage
⎓ 4-32 V	∿ 24-280 V ∿ 48-600 V

Ready to use "Plug and play"
> Unique design of IP 20 housing and built-in heat sink with no exposed metal surfaces for optimized operating conditions.
> Easy mounting on standard 35 mm/*1.378 in.* DIN rail with a secure mounting latch.
> Input circuit with active current limiters.

Complete solution
> Flexibility in choice of relays with two current ratings and two types of channels.
> Zero Voltage switching for resistive loads and Random switching for inductive loads.
> UL and cUL approved including the general purpose and motor controller rating standards.

SSM1 (Single channel) + **SSM2** (Dual channels) → **Plug and Play solution**

Zelio relay - Solid state relays
Solid state power relays

Choose single-phase solution with SSRD relays

Enhanced performance

- High breaking current capacities of 10 to 45 A.
- SCR output/load voltage of 24 to 280 V AC with Zero Voltage switching.

SSRD DIN rail mount relay

SSRD relays

Input/Control circuit voltage	Output/Load circuit voltage
⎓ 4-32 V ⎓ 3-32 V	∿ 24-280 V
∿ 90-280 V ∿ 90-140 V	∿ 24-280 V

Efficient heat dissipation

- SSRDs have built-in heat sinks for efficient heat dissipation.
- Heat sinks are easily mounted by clipping directly onto DIN rail. They can also be panel mounted.

Choose single-phase solution with SSRP relays

Enhanced performance

- High breaking capacities of 10 to 125 A.
- SCR output/load voltage of 48 to 530/660 V AC and 24 to 280 V AC with Zero Voltage switching.
- MOSFET output/load voltage of 3 to 100 V DC with DC switching.

SSRP panel mount relay

SSRP relays

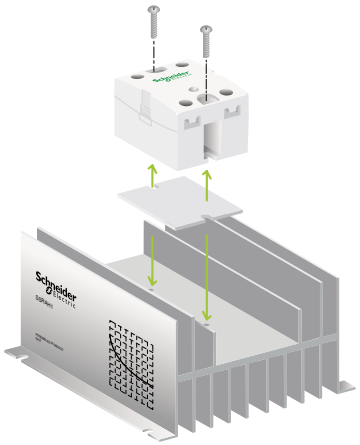
Input/Control circuit voltage	Output/Load circuit voltage
⎓ 3-32 V	∿ 24-280 V ∿ 48-530 V ∿ 48-660 V
⎓ 3.5-32 V	⎓ 3-100 V
∿ 90-280 V	∿ 24-280 V ∿ 48-530 V ∿ 48-660 V

Zelio relay - Solid state relays
Solid state power relays

Choose single-phase solution with SSRP relays (continued)

Efficient heat dissipation

- SSRPs are panel mounted, either on their own or combined with heat sink for applications requiring considerable heat exchange.
- Thermal pad interface protection.

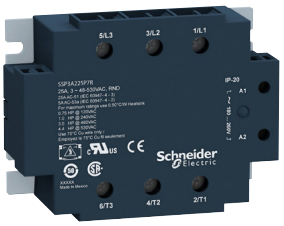


SSRP relay mounted on heat sink with thermal pad interface

Choose complete solution with SSP relays

Complete solution

- Three-phase panel mounted relays suited for power switching applications with current ratings of 25 A and 50 A.



SSP relays

Input/Control circuit voltage	Output/Load circuit voltage
⎓ 4-32 V	∿ 48-530 V
∿ 18-36 V ∿ 90-140 V ∿ 180-280 V	∿ 48-530 V

SSP power relay for harsh environment operations

- AC output version with Random and Zero Voltage switching.
- Wide choice of heat sinks with thermal resistance ratings of 2.5 °C/W to 0.2 °C/W.

Enhanced performance in any situation

- Unique IP 20 housing with touch design.
- Built-in transient circuit with power-on and relay status LED indicator.
- Compliant to product and EMC standards including motor control for improved operation in harsh environments.

Simplified installation and mounting

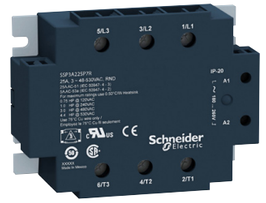
- Factory-fit thermal pad interface option.
- Heat sink provides Panel and DIN rail mounting options.

Zelio solid state power relays + Zelio heat sinks → Complete solution

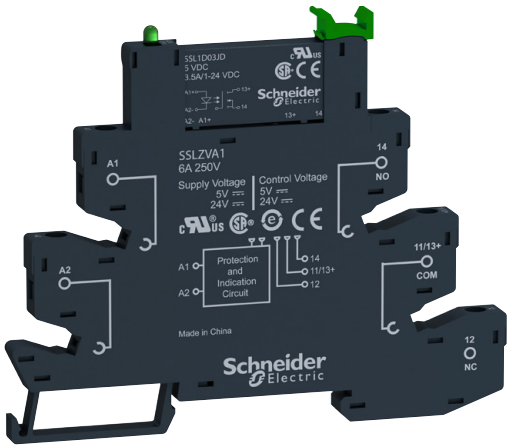
Zelio relay - Solid state relays

Type of products		Solid state slim relays	Solid state modular relays	
				
Number of outputs		1	1	2
Type of Mounting		Plug-in	DIN rail mounted	
Control voltage	∼	–	18…36 V 90…140 V 200…265 V	–
	⎓	3…12 V 15…30 V 38…72 V	4…32 V	
Load voltage	∼	24…280 V	24…280 V 48…600 V	
	⎓	1…24 V 1…48 V	1…60 V 1…100 V	–
Load Current	∼	2 A	6, 12 A	6 A
	⎓	0.1, 3.5 A	6, 12 A	–
Type of switching	∼	Zero Voltage switching Random switching	Zero Voltage switching Random switching	
	⎓	DC switching	DC switching	
Cooling		–	Built-in heat sink	
Number of phases		Single-phase	Single-phase	Single-phase (dual channel)
Degree of protection		IP 67 (encapsulation) IP 20 (socket)	IP 20	
LED indication		Yes (on socket)	Yes	
Associated socket type		Yes, Screw and spring terminal types	No	
Solid state relay type		**SSL**	**SSM1**	**SSM2**
Pages		9	11	

(1) Except for SSRPCDS90A3 and SSRPCDS125A3 relays.

Solid state power relays			
			
1			3
DIN rail mounted	Panel mounted		Panel mounted
90…140 V for SSRDF8S45A1 relay, 90…280 V for other references	90…280 V		18…36 V 90…140 V 180…280 V
3…32 V for SSRDCDS45A1 relay, 4…32 V for other references	SCR output : 3…32 V MOSFET output : 3.5…32 V		4…32 V
24…280 V	24…280 V, 48…530 V, 48…660 V		48…530 V
–	3…100 V		–
10, 20, 30, 45 A	10, 25, 50, 75, 90, 125 A		25, 50 A
–	12, 25, 40 A		–
Zero Voltage switching	Zero Voltage switching		Zero Voltage switching Random switching
–	DC switching		–
Built-in heat sink	Thermal pad interface protection or with heat sink accessory		Thermal pad interface protection or with heat sink accessory
Single-phase			Three-phase
IP 20			IP 20
Yes	Yes *(1)*		Yes
No			No
SSRD	**SSRP**		**SSP**
13			15

Zelio relay - Solid state relays
SSL solid state slim relays

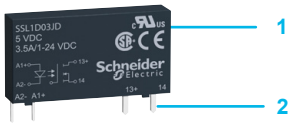


Presentation of the range

SSL solid state relays offer the advantages of several input and output configurations for both AC and DC switching applications. Their compact size and modular design reduces space and allows easy mounting on the socket.

The plug-in type relays can be mounted directly on a PCB or with a socket on a standard 35 mm/*1.378 in.* DIN rail. The sockets are available in screw connector and spring terminal types.

SSL relays provide customers with:
- Relay and socket selection as per operating voltage of the application.
- Available with Zero Voltage switching for resistive load and Random switching for inductive load applications.
- Simple and easy maintenance as the relays can be retained/released by locking/unlocking the lever without disconnecting the socket wiring.
- Socket with reverse polarity protection circuit and LED indicator for easy identification of control status.



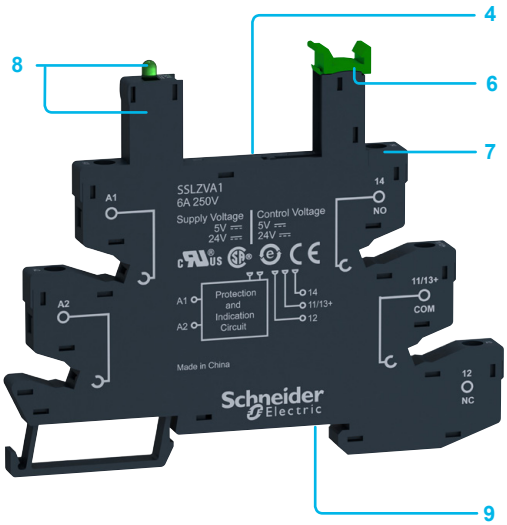
Relay description

SSL slim solid state relays

1 Relay with 1 N/O contact and any one of the following ratings:
- 24 V ⎓, 3.5 A
- 48 V ⎓, 100 mA
- 280 V ∿, 2 A

2 Four flat, reinforced pins (PCB type),

3 5 mm/*0.197 in.* relay width for up to 3.5 A of load current.



Socket description

Sockets for SSL slim solid state relays

4 Five female contacts for the relay pins,

5 6.2 mm/*0.244 in.* socket width,

6 Lever for retaining or easy removal of the relay from its socket with clip-on marker label,

7 Wire connection by screw connectors or spring terminals,

8 Reverse polarity protection circuit and LED indicator are built into the socket,

9 Locating slot for mounting on DIN rail.

Zelio relay - Solid state relays
SSL solid state slim relays

PF123409A

SSL1A12JD

Relays and sockets for customer assembly

SSL solid state relays, single-phase

Switching	Voltage range		Load current range	Reference	Weight
	Input	Output			
	V	V	A		kg/*lb*
DC switching	⎓ 3 to 12	⎓ 1 to 24	3.5	**SSL1D03JD**	0.004/*0.009*
		⎓ 1 to 48	0.1	**SSL1D101JD**	0.004/*0.009*
	⎓ 15 to 30	⎓ 1 to 24	3.5	**SSL1D03BD**	0.004/*0.009*
	⎓ 16 to 30	⎓ 1 to 48	0.1	**SSL1D101BD**	0.004/*0.009*
	⎓ 38 to 72	⎓ 1 to 24	3.5	**SSL1D03ND**	0.004/*0.009*
		⎓ 1 to 48	0.1	**SSL1D101ND**	0.004/*0.009*
Zero Voltage switching	⎓ 3 to 12	∿ 24 to 280	2	**SSL1A12JD**	0.004/*0.009*
	⎓ 15 to 30	∿ 24 to 280	2	**SSL1A12BD**	0.004/*0.009*
	⎓ 38 to 72	∿ 24 to 280	2	**SSL1A12ND**	0.004/*0.009*
Random switching	⎓ 3 to 12	∿ 24 to 280	2	**SSL1A12JDR**	0.004/*0.009*
	⎓ 15 to 30	∿ 24 to 280	2	**SSL1A12BDR**	0.004/*0.009*
	⎓ 38 to 72	∿ 24 to 280	2	**SSL1A12NDR**	0.004/*0.009*

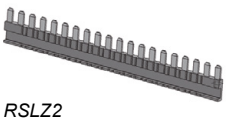
PF123420B

SSLZVA1 + SSL1D03JD

Sockets equipped with LED and protection circuit

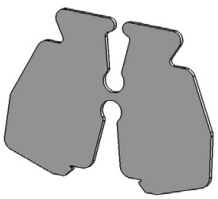
Control voltage (Nominal)	For use with relays	Socket type			
		Screw connector		Spring terminal	
		Unit reference	Weight	Unit reference	Weight
V			kg/*lb*		kg/*lb*
⎓ 5	SSL1D03JD SSL1D101JD SSL1A12JD SSL1A12JDR	**SSLZVA1**	0.029/*0.063*	**SSLZRA1**	0.029/*0.063*
⎓ 24	SSL1D03BD SSL1D101BD SSL1A12BD SSL1A12BDR	**SSLZVA1**	0.029/*0.063*	**SSLZRA1**	0.029/*0.063*
⎓ 60	SSL1D03ND SSL1D101ND SSL1A12ND SSL1A12NDR	**SSLZVA2**	0.029/*0.063*	**SSLZRA2**	0.029/*0.063*
⎓/∿ 110	SSL1D03ND SSL1D101ND SSL1A12ND SSL1A12NDR	**SSLZVA3**	0.029/*0.063*	**SSLZRA3**	0.029/*0.063*
⎓/∿ 230	SSL1D03ND SSL1D101ND SSL1A12ND SSL1A12NDR	**SSLZVA4**	0.029/*0.063*	**SSLZRA4**	0.029/*0.063*

PF528466



RSLZ2

PF526467



RSLZ3

Accessories for sockets

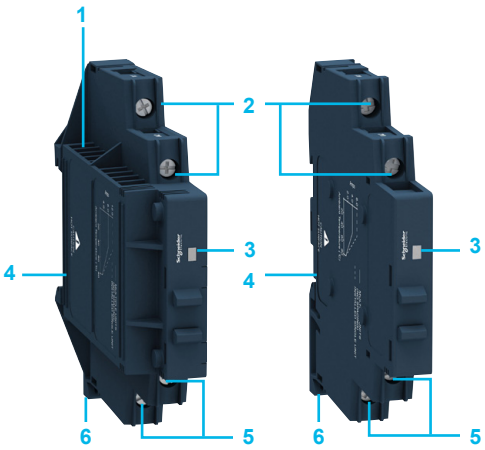
Description	Compatibility	Reference	Weight kg/*lb*
Clip-in legends (2 sheets of 64 legends)	SSL sockets	**RSLZ5**	0.001/*0.002*
Bus jumper (10 x 20-pole jumper)	SSL sockets	**RSLZ2**	0.003/*0.007*
Partition plate (10 partition plates)	SSL sockets	**RSLZ3**	0.001/*0.002*

Zelio relay - Solid state relays
SSM solid state modular relays

Presentation of the range

SSM solid state relays are ready-to-use modular relays with SCR/MOSFET outputs for greater power density. The unique IP 20 housing design and integrated heat sink with no exposed metal surface offers compactness and enhances operating conditions of relay. SSMs are DIN rail mounted and available with Zero Voltage switching for resistive load and Random switching for inductive load applications.

The SSM relay range comprises:
- **SSM1**: Single channel, single-phase relays with 6 A and 12 A ratings
- **SSM2**: Dual channel, single-phase relays with 6 A rating



Relay description

SSM1 relays

1 Built-in heat sink for heat dissipation,

2 Control input connection terminals,

3 Input voltage indicator LED in green,

4 Bracket for mounting on 35 mm/*1.378 in.* DIN rail,

5 Load voltage connection terminals,

6 Mounting latch.

SSM2 relays

1 Built-in heat sink for heat dissipation,

2 Load voltage connection terminals for Channel ‘A’,

3 Separate input voltage indicator LED in green,

4 Separate input control connection terminals,

5 Load voltage connection terminals for Channel ‘B’,

6 Mounting latch,

7 Bracket for mounting on 35 mm/*1.378 in.* DIN rail.

Zelio relay - Solid state relays
SSM solid state modular relays

PF123426B

SSM1A36BD

PF123427B

SSM1A312BD

PF123428B

SSM2A36BD

SSM1 solid state relays, single channel and single-phase

Switching	Voltage range		Load current range	Reference	Weight
	Input	Output			
	V	V	A		kg/*lb*
DC switching	⎓ 4…32	⎓ 1…60	6	**SSM1D26BD**	0.050/*0.110*
			12	**SSM1D212BD**	0.090/*0.198*
		⎓ 1…100	6	**SSM1D36BD**	0.050/*0.110*
			12	**SSM1D312BD**	0.090/*0.198*
Zero Voltage switching	⎓ 4…32	∿ 24…280	6	**SSM1A16BD**	0.050/*0.110*
			12	**SSM1A112BD**	0.090/*0.198*
		∿ 48…600	6	**SSM1A36BD**	0.050/*0.110*
			12	**SSM1A312BD**	0.090/*0.198*
	∿ 18…36	∿ 24…280	6	**SSM1A16B7**	0.050/*0.110*
			12	**SSM1A112B7**	0.090/*0.198*
		∿ 48…600	12	**SSM1A312B7**	0.090/*0.198*
	∿ 90…140	∿ 24…280	6	**SSM1A16F7**	0.050/*0.110*
			12	**SSM1A112F7**	0.090/*0.198*
		∿ 48…600	12	**SSM1A312F7**	0.090/*0.198*
	∿ 200…265	∿ 24…280	6	**SSM1A16P7**	0.050/*0.110*
			12	**SSM1A112P7**	0.090/*0.198*
		∿ 48…600	12	**SSM1A312P7**	0.090/*0.198*
Random switching	⎓ 4…32	∿ 24…280	6	**SSM1A36BDR**	0.050/*0.110*
			12	**SSM1A112BDR**	0.090/*0.198*
		∿ 48…600	6	**SSM1A16BDR**	0.050/*0.110*
			12	**SSM1A312BDR**	0.090/*0.198*
	∿ 18…36	∿ 24…280	6	**SSM1A16B7R**	0.050/*0.110*
			12	**SSM1A112B7R**	0.090/*0.198*
		∿ 48…600	12	**SSM1A312B7R**	0.090/*0.198*
	∿ 90…140	∿ 24…280	6	**SSM1A16F7R**	0.050/*0.110*
			12	**SSM1A112F7R**	0.090/*0.198*
		∿ 48…600	12	**SSM1A312F7R**	0.090/*0.198*
	∿ 200…265	∿ 24…280	6	**SSM1A16P7R**	0.050/*0.110*
			12	**SSM1A112P7R**	0.090/*0.198*
		∿ 48…600	12	**SSM1A312P7R**	0.090/*0.198*

SSM2 solid state relays, dual channel and single-phase

Zero Voltage switching	⎓ 4…32	∿ 24…280	6	**SSM2A16BD**	0.090/*0.198*
		∿ 48…600	6	**SSM2A36BD**	0.090/*0.198*
Random switching	⎓ 4…32	∿ 24…280	6	**SSM2A16BDR**	0.090/*0.198*
		∿ 48…600	6	**SSM2A36BDR**	0.090/*0.198*

Zelio relay - Solid state relays
SSRD and SSRP solid state power relays

Presentation of the range

The **SSR** solid state relay range comprises:
- Relays for DIN rail mounting: **SSRD**
- Relays for panel mounting: **SSRP**

Relay description

SSRD relays for DIN rail mounting

1 Lugs for plate mounting,
2 Built-in heat sink,
3 Connection terminals,
4 Connection terminal screws,
5 Input voltage indicator LED in green,
6 Bracket for mounting on 35 mm/*1.38 in.* DIN rail.

SSRP relays for panel mounting

1 2 x Ø 4.9 holes for fixing,
2 Connection terminals,
3 Connection terminal screws,
4 Input voltage indicator LED in green,
5 Thermal interface pad placed on the back of product.

Zelio relay - Solid state relays
SSR solid state relays

PF526339

SSRDCDS10A1

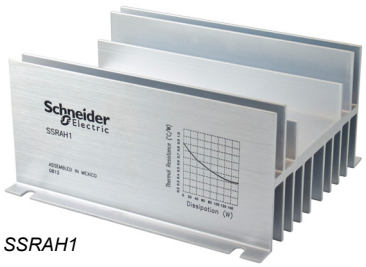
PF526062

SSRDCDS45A1

PF526060

SSRPCDS25A1

PF526063



SSRAH1

PF526064

SSRAT1

SSRD solid state relays, single-phase

Switching	Voltage range		Load current range	Reference	Weight
	Input	Output			
	V	V	A		kg/*lb*
Zero Voltage switching	∿ 90…280	∿ 24…280	10	**SSRDP8S10A1**	0.272/*0.600*
			20	**SSRDP8S20A1**	0.272/*0.600*
			30	**SSRDP8S30A1**	0.272/*0.600*
	∿ 90…140	∿ 24…280	45	**SSRDF8S45A1**	0.482/*1.063*
	⎓ 4…32	∿ 24…280	10	**SSRDCDS10A1**	0.272/*0.600*
			20	**SSRDCDS20A1**	0.272/*0.600*
			30	**SSRDCDS30A1**	0.272/*0.600*
	⎓ 3…32	∿ 24…280	45	**SSRDCDS45A1**	0.482/*1.063*

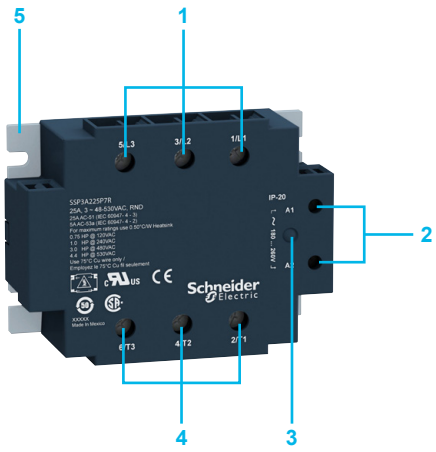
SSRP solid state relays, single-phase

Zero Voltage switching	⎓ 3…32	∿ 24…280	10	**SSRPCDS10A1**	0.113/*0.249*
			25	**SSRPCDS25A1**	0.113/*0.249*
			50	**SSRPCDS50A1**	0.113/*0.249*
		∿ 48…530	75	**SSRPCDS75A2**	0.113/*0.249*
		∿ 48…660	90	**SSRPCDS90A3**	0.113/*0.249*
			125	**SSRPCDS125A3**	0.113/*0.249*
	∿ 90…280	∿ 24…280	10	**SSRPP8S10A1**	0.113/*0.249*
			25	**SSRPP8S25A1**	0.113/*0.249*
			50	**SSRPP8S50A1**	0.113/*0.249*
		∿ 48…530	75	**SSRPP8S75A2**	0.113/*0.249*
		∿ 48…660	90	**SSRPP8S90A3**	0.113/*0.249*
			125	**SSRPP8S125A3**	0.113/*0.249*
DC switching	⎓ 3.5…32	⎓ 3…100	12	**SSRPCDM12D5**	0.113/*0.249*
			25	**SSRPCDM25D5**	0.113/*0.249*
			40	**SSRPCDM40D5**	0.113/*0.249*

Accessories

Description	For use with 10…50A relays	Unit reference	Weight kg/*lb*
Heat sink	SSRPP8S●●●●, SSRPCDS●●●●, SSRPCDM●●●●	**SSRAH1**	0.487/*1.074*
Thermal pad interface Sold in lots of 10	SSRPP8S●●●●, SSRPCDS●●●●, SSRPCDM●●●●	**SSRAT1**	0.011/*0.024*

Zelio relay - Solid state relays
SSP solid state power relays



Presentation of the range

SSP solid state relays are three-phase panel mounted relays with IP 20 housing. The SCR outputs allow them to be used in various power switching applications. These power relays with 25 A and 50 A current rating are EMC compliant.

SSP relays are integrated with a R-C snubber circuit and a TVS (Transient Voltage Suppression). They are available with Zero Voltage switching for resistive load and Random switching for inductive load applications.

Relay description

SSP relays for panel mounting

1 Input terminal screws,

2 Control input connection terminal screw,

3 Input voltage indicator LED in green,

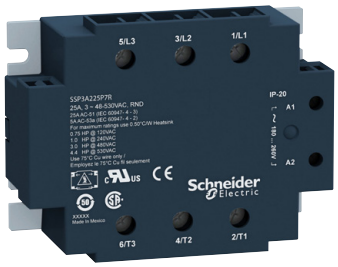
4 Load side terminal screws,

5 Thermal pad interface which is placed on the back of product.

Zelio relay - Solid state relays

SSP solid state power relays

PF123437B



SSP3A225P7

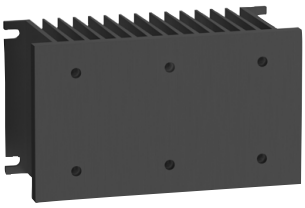
SSP solid state relays, three-phase

Switching	Voltage range		Load current range	Reference	Weight
	Input	Output			
	V	V	A		kg/*lb*
Zero Voltage switching	⎓ 4…32	∿ 48…530	25	**SSP3A225BD**	0.360/*0.794*
			50	**SSP3A250BD**	0.360/*0.794*
	∿ 18…36	∿ 48…530	25	**SSP3A225B7**	0.360/*0.794*
			50	**SSP3A250B7**	0.360/*0.794*
	∿ 90…140	∿ 48…530	25	**SSP3A225F7**	0.360/*0.794*
			50	**SSP3A250F7**	0.360/*0.794*
	∿ 180…280	∿ 48…530	25	**SSP3A225P7**	0.360/*0.794*
			50	**SSP3A250P7**	0.360/*0.794*
Random switching	⎓ 4…32	∿ 48…530	25	**SSP3A225BDR**	0.360/*0.794*
			50	**SSP3A250BDR**	0.360/*0.794*
	∿ 18…36	∿ 48…530	25	**SSP3A225B7R**	0.360/*0.794*
			50	**SSP3A250B7R**	0.360/*0.794*
	∿ 90…140	∿ 48…530	25	**SSP3A225F7R**	0.360/*0.794*
			50	**SSP3A250F7R**	0.360/*0.794*
	∿ 180…280	∿ 48…530	25	**SSP3A225P7R**	0.360/*0.794*
			50	**SSP3A250P7R**	0.360/*0.794*

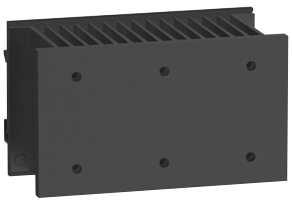
SSP solid state relays with thermal pad interface, three-phase

Zero Voltage switching	⎓ 4…32	∿ 48…530	25	**SSP3A225BDT**	0.360/*0.794*
			50	**SSP3A250BDT**	0.360/*0.794*
	∿ 18…36	∿ 48…530	25	**SSP3A225B7T**	0.360/*0.794*
			50	**SSP3A250B7T**	0.360/*0.794*
	∿ 90…140	∿ 48…530	25	**SSP3A225F7T**	0.360/*0.794*
			50	**SSP3A250F7T**	0.360/*0.794*
	∿ 180…280	∿ 48…530	25	**SSP3A225P7T**	0.360/*0.794*
			50	**SSP3A250P7T**	0.360/*0.794*
Random switching	⎓ 4…32	∿ 48…530	25	**SSP3A225BDRT**	0.360/*0.794*
			50	**SSP3A250BDRT**	0.360/*0.794*
	∿ 18…36	∿ 48…530	25	**SSP3A225B7RT**	0.360/*0.794*
			50	**SSP3A250B7RT**	0.360/*0.794*
	∿ 90…140	∿ 48…530	25	**SSP3A225F7RT**	0.360/*0.794*
			50	**SSP3A250F7RT**	0.360/*0.794*
	∿ 180…280	∿ 48…530	25	**SSP3A225P7RT**	0.360/*0.794*
			50	**SSP3A250P7RT**	0.360/*0.794*

Zelio relay - Solid state relays
Heat sinks for solid state relays



Panel mount heat sink



DIN rail mount heat sink

Presentation of the range

The Zelio heat sinks offer optimized thermal solutions for wide range of solid state relays that are available in industry. They enable easy dissipation of heat that is developed within the SSRs during the conduction process into the surrounding, and thus enhances operation of SSR.

The heat sinks with thermal resistance ratings of 2.5 °C/W to 0.2 °C/W can be used with combinations of single, dual and three phase SSRs for up to 50 A load. These compact sized heat sinks are available in both panel mount and DIN rail mount types.

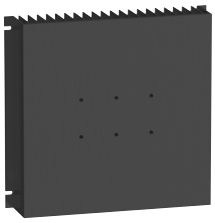
Heat sink description

Zelio heat sinks are made of aluminium with a black anodized finish for high thermal conductivity.

The heat sink performance is based on the thermal resistance rating which is defined as the heat sink resistance to the transfer of thermal energy. So the performance of SSR will increase as the value of thermal resistance decreases. The air flow or thermal conductivity can be maximized by orienting the heat sink fins vertically which in turn increases the performance.

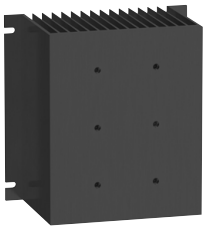
Zelio relay - Solid state relays
Heat sinks for solid state relays

PF123461C



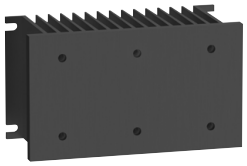
SSRHP02

PF123462D



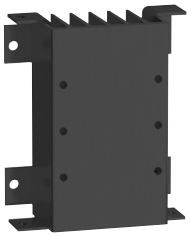
SSRHP05

PF123463B



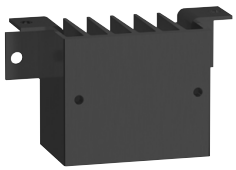
SSRHP10

PF123464D



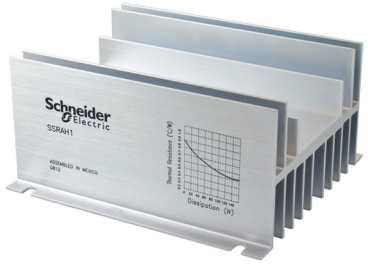
SSRHP17

PF123465C



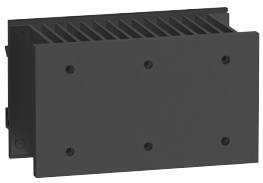
SSRHP25

PF526063



SSRAH1

PF123460C



SSRHD10

Heat sinks for customer assembly

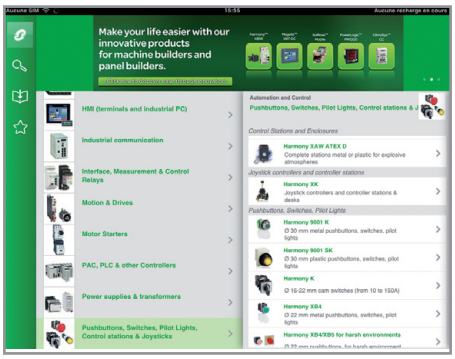
Mounting	Number and type of relays supported	Surface area	Thermal resistance	Reference	Weight
		cm²/in²	°C/W		kg/*lb*
Panel mount	1 x SSP 1 x SSRP 2 x SSRP 3 x SSRP	6823/1058	0.2	**SSRHP02**	2.592/*5.714*
	1 x SSP 1 x SSRP 2 x SSRP 3 x SSRP	4406/683	0.5	**SSRHP05**	1.440/*3.174*
	1 x SSP 1 x SSRP 2 x SSRP	1425/221	1	**SSRHP10**	0.520/*1.146*
	1 x SSRP 2 x SSRP	659/102	1.7	**SSRHP17**	0.195/*0.430*
	1 x SSRP	336/52.10	2.5	**SSRHP25**	0.100/*0.220*
	1 x SSRP 2 x SSRP		0.9	**SSRAH1**	0.487/*1.074*
DIN rail mount	1 x SSP 1 x SSRP 2 x SSRP	1425/221	1	**SSRHD10**	0.630/*1.389*

Search, vizualize, and download

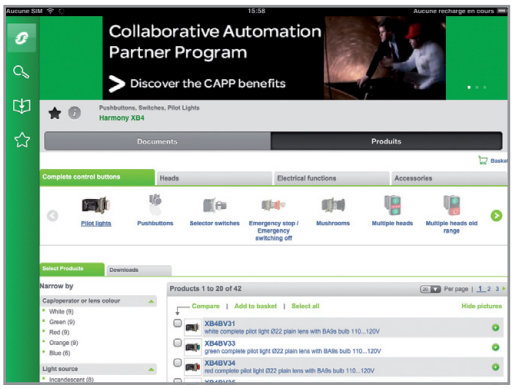
Use your tablet or your PC to quickly access detailed and comprehensive information on our products

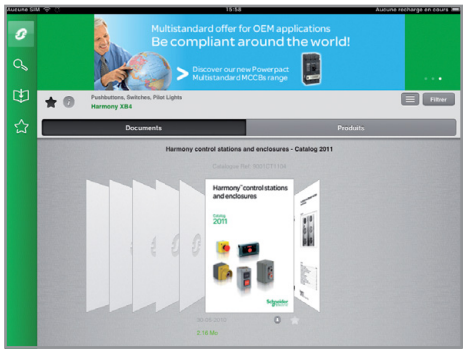
Tablets

Application name: “Automation Library by Schneider Electric”



Product ranges
displayed by function



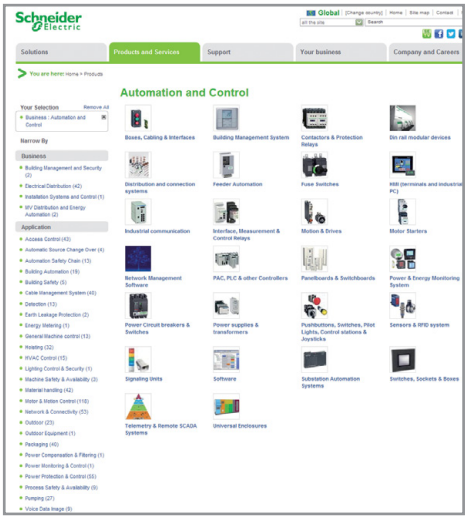


Dynamic catalogs
(hyperlinks, video, ...)

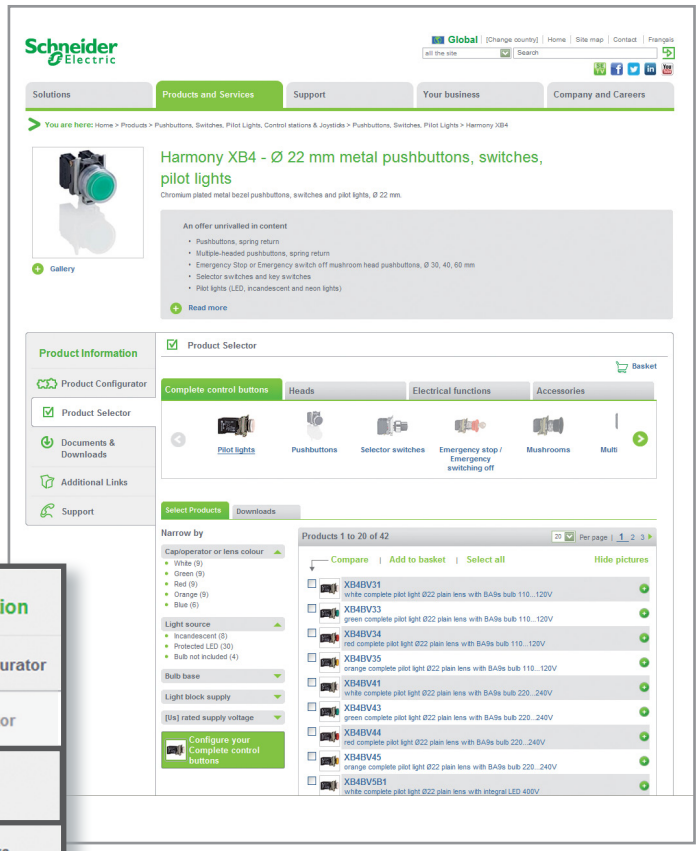
Product selector: dynamic filters to get easily your part number

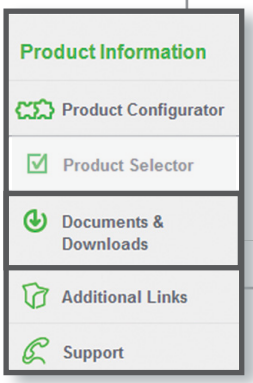
Personal computer

Path: www.schneider-electric.com > **Products and Services** > Automation and control > Product offer



Product ranges
displayed by function



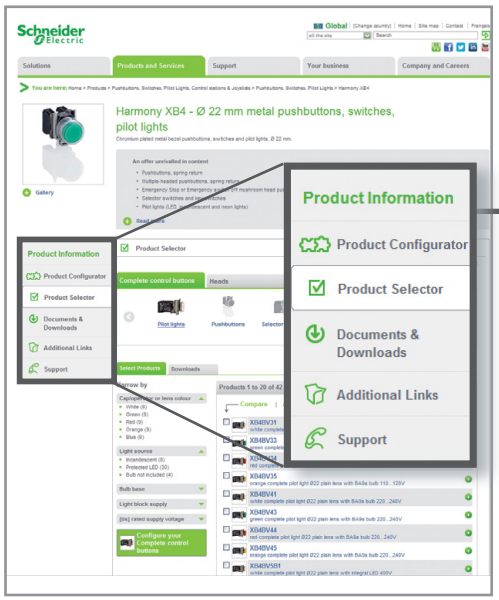


Dynamic catalogs
(hyperlinks, video, ...)

Product selector: dynamic filters to get easily your part number

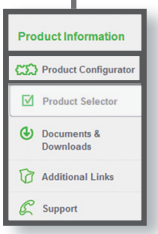
Access product references with adapted tools

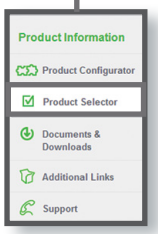
Path: www.schneider-electric.com > **Products and Services** > Automation and control > ... > Product offer

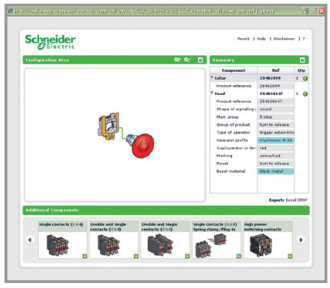


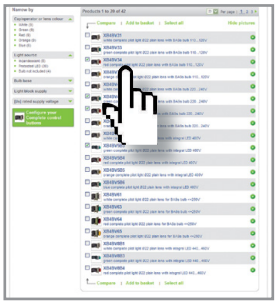
Graphic product configurator
Select the right product with just a few clicks

Dynamic product selector
Visualize product characteristics and dimensions

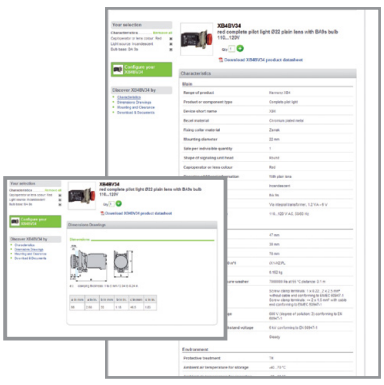








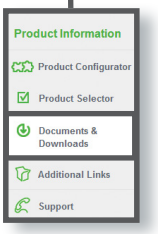
Product data sheet
with technical characteristics and dimensions

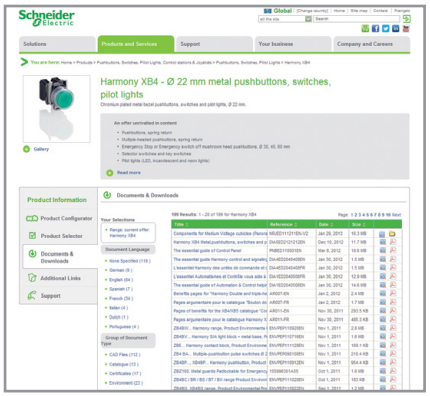


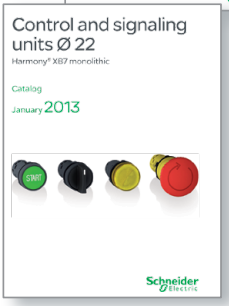
Dimensions

Technical characteristics

Documents and downloads
Visualize and download catalogues, technical publications, certificates, etc.



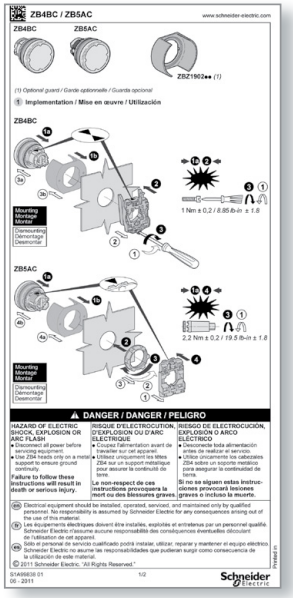




Essential guides

Dynamic catalogs

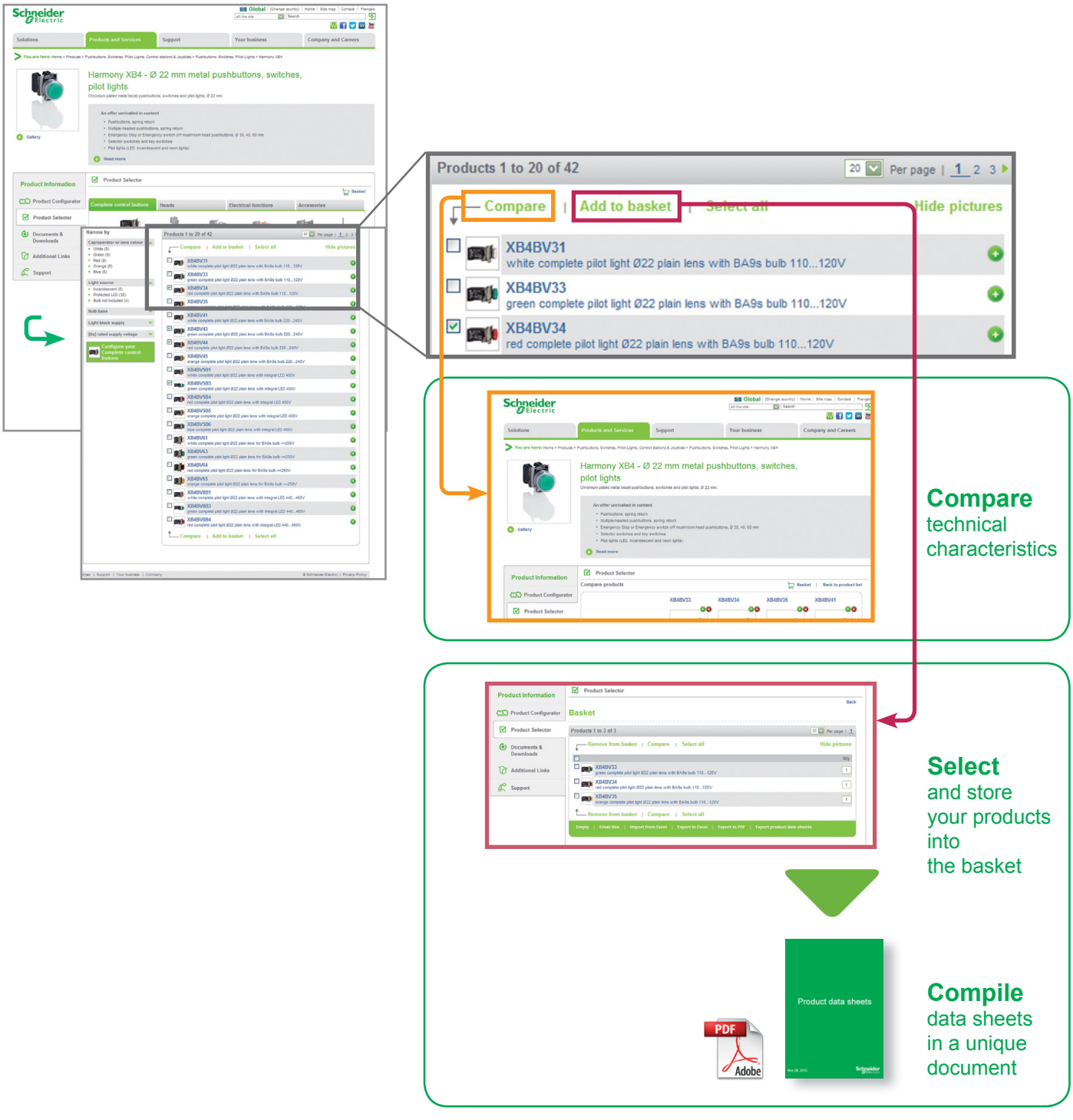
Certificates



Technical publications

Compare, select, and compile

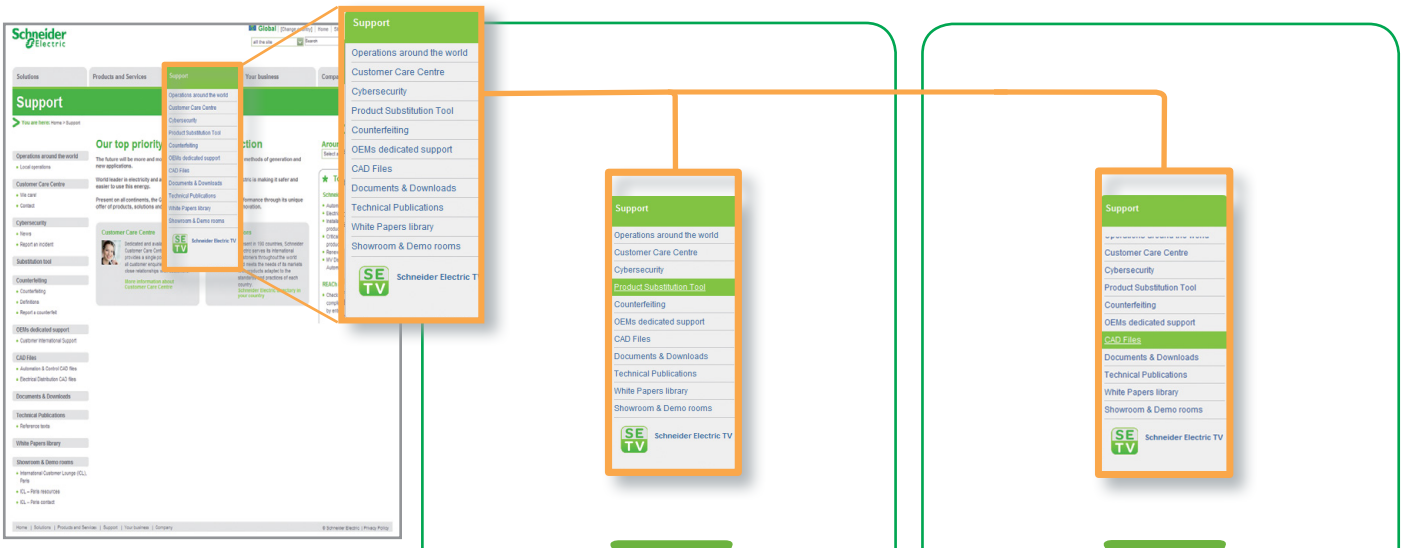
Path: www.schneider-electric.com > **Products and Services** > Automation and control > ... > Harmony XB4*

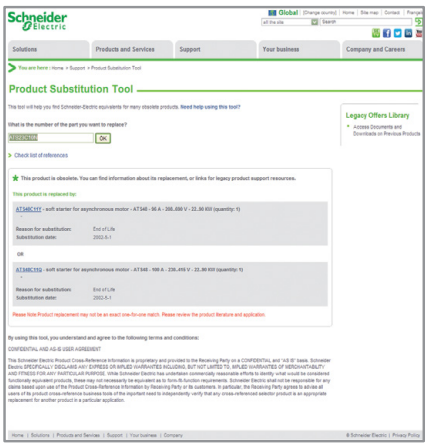


* Example of research on a product

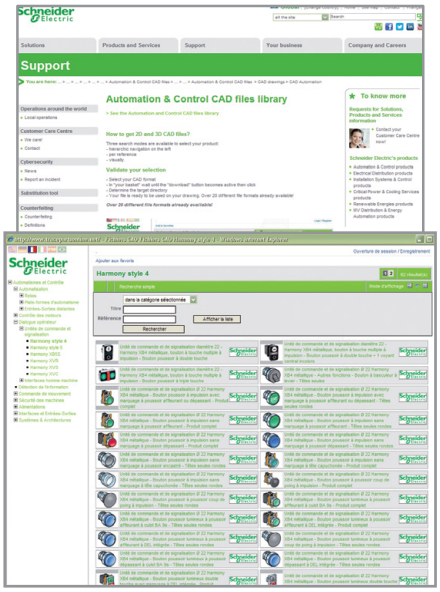
Check the product status, design your equipment

Path: www.schneider-electric.com > **Support** > Product Substitution Tool
Path: www.schneider-electric.com > **Support** > CAD files





Product status:
indicate whether the product is still commercialized. Otherwise, the tool suggests a product substitution.



CAD files:
available in various formats they will be easily integrated into your installation design software.

Please note that references to products and services are just examples.

Product reference index

Schneider Electric Industries SAS

Head Office
35, rue Joseph Monier
F-92500 Rueil-Malmaison
France

www.schneider-electric.com

Design: Schneider Electric
Photos: Schneider Electric
Printed by:

DIA5ED2130302EN

ART. 839072

July 2013 - V1.1