

Quick selection guide

AC | DC

Who we are



As the **Switch Specialist**, we design and manufacture **low voltage switchgear solutions**. We anticipate our customers' needs and offer electromechanical products for industrial applications, utilities, railway and green energy sector.

Telergon is **an innovative, customer orientated firm** and we are strongly committed to R&D as a tool to boost the future of the industry. Due to this attitude, the company offers a wide range of **standard products** but also the possibility to customize them according to special requirements.

Our knowledge, acquired through an **experience of more than 65 years**, together with the involvement of its **highly qualified professionals**, has allowed Telergon to **be present in more than 100 countries**, always providing the best service and working under the strictest **quality** standards.



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gorlan
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AC



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S5F, S5L, ZFC

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For further details about the products included in this guide, please consult the general catalogue, visit our website (www.telergon.com) or contact us directly.

Cam switches

Testing and approvals:



Cam switches are a flexible and low cost solution for any electric diagram. They consist of chambers, each containing up to two double break contacts of positive opening, which are silver alloy coated in order to guarantee a long electromechanical life.

According to:

IEC 60947-3 | UL508 | RoHS | GB/T 14048.3

The different configurations available provide faster and safer solutions for several electrical operations, becoming a reliable product that meets the most demanding requirements.

Customized solutions

From 10 A up to 1200 A



Ergonomic handle

With position indicator



Removable shrouds

In T series

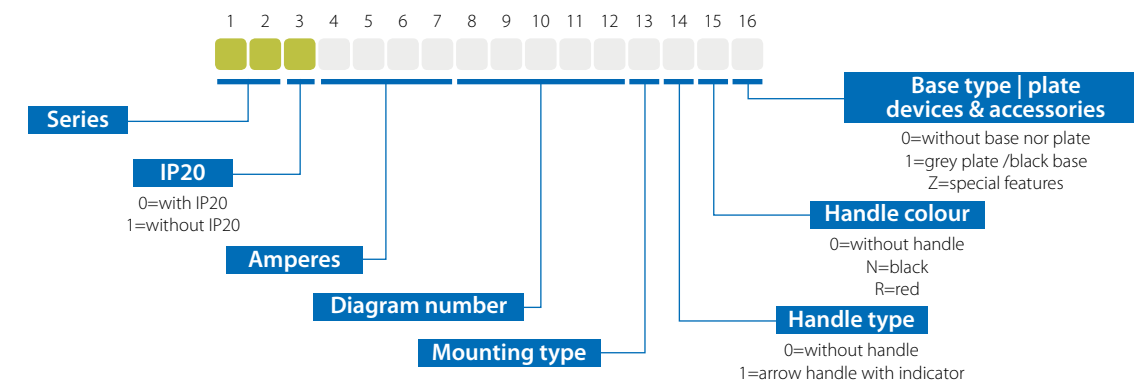


Wide range

Of devices and accessories



T175



T series

From 12A up to 1200A (under request).
1P up to 12 P.
Supplied with IP20 removable terminals



protection (except T175).
Four sizes available: 0,1 2 & 3.

TB series

From 20A up to 32A.
1P up to 12 P.
Side access to all terminal screws (up and down).

TF series

From 12A up to 32A.
1P up to 12 P.
Square body, smooth sides, axial access to terminal screws.

TP series

Available for 12A.
1P up to 12 P.
Reduced-sized body.

Enclosed cam switches

CITP, CITR & CTFR series (plastic enclosure) and CITA & CITC series (metallic enclosure).
Available from 12A up to 100A according to models.
With padlockable handle (under request).

Possibility of other diagrams (under request).
Different enclosure sizes.

Customized solutions

From 10A up to 1200A.
Any electrical programme can be executed.
Up to 36 positions and 72 contacts.
Reversing, selector, ammeter, voltmeter, Dahlander switches...

Special devices for the railway sector.
Customized enclosed solutions are also available.

Cam switches | Standard codes



		12A	16A	25A	32A
	Model	TP-0010	T-00012	T-00020	T-00025
	On - off switches				
	T-010	1P	TP-001000010E1N1	T-0001200010E1N1	T-0002000010E1N1
	T-011	2P	TP-001000011E1N1	T-0001200011E1N1	T-0002000011E1N1
	T-012	3P	TP-001000012E1N1	T-0001200012E1N1	T-0002000012E1N1
	Reversing switches				
	T-013	4P	TP-001000013E1N1	T-0001200013E1N1	T-0002000013E1N1
	T-101	2P	-	T-0001200101E1N1	T-0002000101E1N1
	T-102	3P	-	T-0001200102E1N1	T-0002000102E1N1
	Star delta switches				
	T-300	Normal	-	T-0001200300E1N1	T-0002000300E1N1
	Dahlander multi-step switches				
	T-330	0-1-2	-	T-0001200330E1N1	T-0002000330E1N1
	Changeover switches with center "OFF" 1-0-2				
	T-400	1P	TP-001000400E1N1	T-0001200400E1N1	T-0002000400E1N1
	T-401	2P	TP-001000401E1N1	T-0001200401E1N1	T-0002000401E1N1
	T-402	3P	TP-001000402E1N1	T-0001200402E1N1	T-0002000402E1N1
	Changeover switches without "OFF" 1-2				
	T-403	4P	TP-001000403E1N1	T-0001200403E1N1	T-0002000403E1N1
	T-500	1P	-	T-0001200500E1N1	T-0002000500E1N1
	T-501	2P	-	T-0001200501E1N1	T-0002000501E1N1
	Multi-step switches with "OFF" position 1-0-2 - 1 pole				
	T-502	3P	-	T-0001200502E1N1	T-0002000502E1N1
	T-503	4P	-	T-0001200503E1N1	T-0002000503E1N1
	T-510	3 positions	-	T-0001200510E1N1	T-0002000510E1N1
	Multi-step switches without "OFF" position 1 pole				
	T-511	4 positions	-	T-0001200511E1N1	T-0002000511E1N1
	T-512	5 positions	-	T-0001200512E1N1	T-0002000512E1N1
	Voltmeter switches				
	T-701	3 phases	TP-001000701E1N1	T-0001200701E1N1	-
	T-705	3 phases and 3 phases to neutral	TP-001000705E1N1	T-0001200705E1N1	-
	Ammeter switches				
	T-720	3 phases	-	T-0001200720E1N1	-
	T-731	3 circuits	TP-001000731E1N1	T-0001200731E1N1	-

For more references, features, poles and positions, please consult.

Bespoke solutions

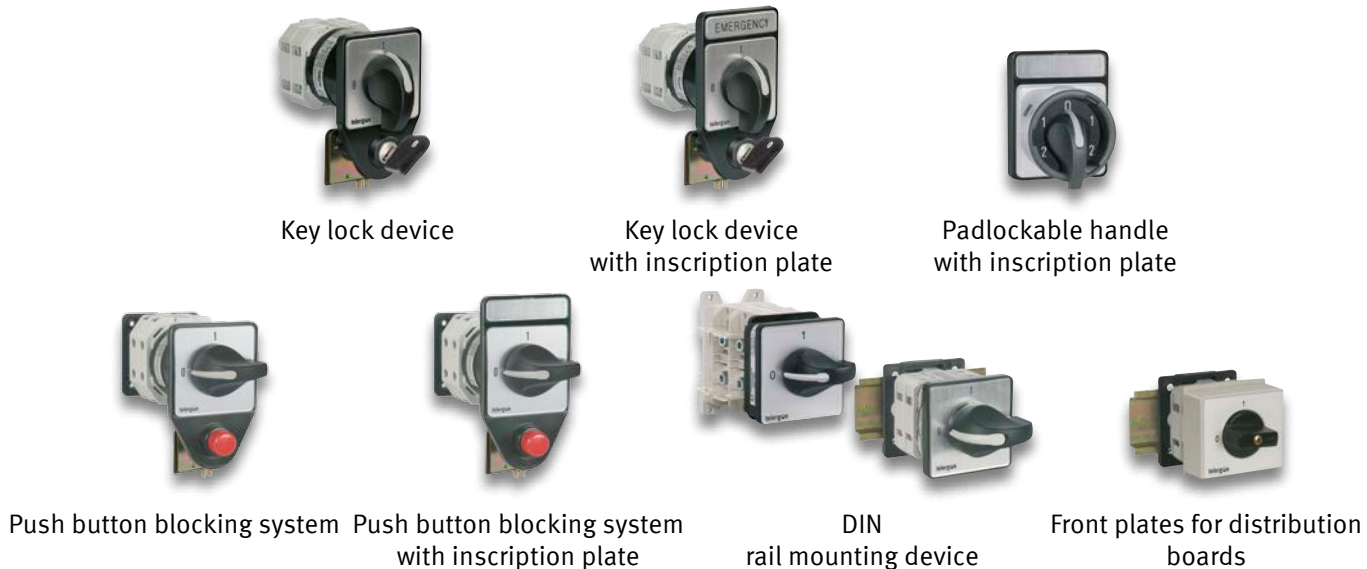


For other customized solutions, please consult.

50A	80A	125A	200A	250A
T-00040	T-00063	T-00100	T-00175	T-00250
T-0004000010E1N1	T-0006300010E1N1	T-0010000010E1N1	T-0017500010E1N1	T-0025000010E1N1
T-0004000011E1N1	T-0006300011E1N1	T-0010000011E1N1	T-0017500011E1N1	T-0025000011E1N1
T-0004000012E1N1	T-0006300012E1N1	T-0010000012E1N1	T-0017500012E1N1	T-0025000012E1N1
T-0004000013E1N1	T-0006300013E1N1	T-0010000013E1N1	T-0017500013E1N1	T-0025000013E1N1
T-0004000101E1N1	T-0006300101E1N1	T-0010000101E1N1	T-0017500101E1N1	T-0025000101E1N1
T-0004000102E1N1	T-0006300102E1N1	T-0010000102E1N1	T-0017500102E1N1	T-0025000102E1N1
T-0004000300E1N1	T-0006300300E1N1	T-0010000300E1N1	T-0017500300E1N1	T-0025000300E1N1
T-0004000330E1N1	T-0006300330E1N1	T-0010000330E1N1	T-0017500330E1N1	T-0025000330E1N1
T-0004000400E1N1	T-0006300400E1N1	T-0010000400E1N1	T-0017500400E1N1	T-0025000400E1N1
T-0004000401E1N1	T-0006300401E1N1	T-0010000401E1N1	T-0017500401E1N1	T-0025000401E1N1
T-0004000402E1N1	T-0006300402E1N1	T-0010000402E1N1	T-0017500402E1N1	T-0025000402E1N1
T-0004000403E1N1	T-0006300403E1N1	T-0010000403E1N1	T-0017500403E1N1	T-0025000403E1N1
T-0004000410E1N1	T-0006300410E1N1	T-0010000410E1N1	T-0017500410E1N1	T-0025000410E1N1
T-0004000411E1N1	T-0006300411E1N1	T-0010000411E1N1	T-0017500411E1N1	T-0025000411E1N1
T-0004000412E1N1	T-0006300412E1N1	T-0010000412E1N1	T-0017500412E1N1	T-0025000412E1N1
T-0004000500E1N1	T-0006300500E1N1	T-0010000500E1N1	T-0017500500E1N1	T-0025000500E1N1
T-0004000501E1N1	T-0006300501E1N1	T-0010000501E1N1	T-0017500501E1N1	T-0025000501E1N1
T-0004000502E1N1	T-0006300502E1N1	T-0010000502E1N1	T-0017500502E1N1	T-0025000502E1N1
T-0004000503E1N1	T-0006300503E1N1	T-0010000503E1N1	T-0017500503E1N1	T-0025000503E1N1
T-0004000510E1N1	T-0006300510E1N1	T-0010000510E1N1	T-0017500510E1N1	T-0025000510E1N1
T-0004000511E1N1	T-0006300511E1N1	T-0010000511E1N1	T-0017500511E1N1	T-0025000511E1N1
T-0004000512E1N1	T-0006300512E1N1	T-0010000512E1N1	T-0017500512E1N1	T-0025000512E1N1
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Standard codes are for rear mounting assemble (E) with standard black arrow handle (1N1). E1N1 at the end.
Other fixings (base & DIN mouting with direct or external handle) under request.
Other handles under request.

Plate and handle



For other customized solutions, please consult.

At Telergon, we specialize in customized solutions. Above are some examples of customized cam switches we have developed. They are made according to customer specifications or to comply with a diagram or special scheme.

Modular switches

Testing and approvals:    

Different modular devices compose the ZBK series, all with a high breaking capacity and contact pressure, allowing an optimized response to short circuits.

According to:

IEC 60947-3 | IEC 60947-5-1 | VDE 0660 | UL508 | RoHS

Designed for use in low voltage civil and industrial machines and facilities, this series includes a range of changeover switches and diverse solutions in plastic enclosures.

Reduce-sized body



Different type

Of mountings



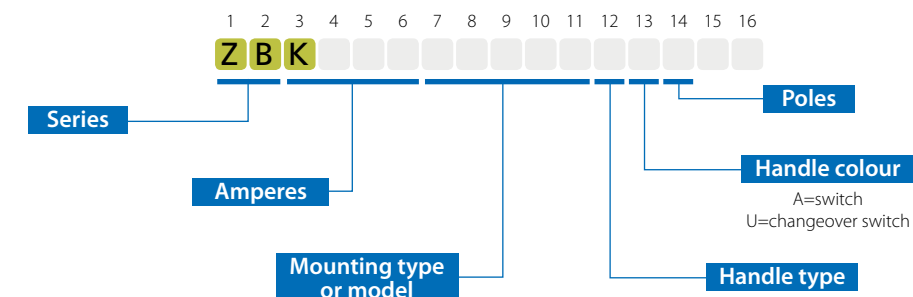
Wide range of currents

from 20 up to 125A



Possibility of incorporate auxiliary terminals

And other accessories



ZBK series

Base mounting switch with padlockable handle with clutch device Ø22



From 3P up to 8P.
Available from
- 20 up to 125A 3P & 3P+N.
- 25 up to 80A 6P & 8P.

Two sizes of padlockable external handle.
Shaft extension depth-adjustable.

Door mounting by screws switch



3P or 3P+N.
Available from 20 up to 125A.

Two sizes of padlockable handle.

Base mounting by screws or DIN rail mounting switch



From 3P up to 8P.
Available from
- 20 up to 125A 3P & 3P+N.
- 25 up to 80A 6P & 8P.

Modular padlockable direct handle.

Base mounting by screws or DIN rail mounting changeover switch



3P+N.
Available from 20 up to 63A.

Modular padlockable direct handle.
Supplied with bridging links included.

Plastic enclosed solutions



Switches from 3P up to 8P.
Available from:
- 20 up to 125A 3P & 3P+N.
- 25 up to 80A 6P & 8P.

Padlockable handle.
Enclosed changeovers also available under request.

Accessories for these series



Switches from 3P up to 8P.
Available from:
- 20 up to 125A 3P & 3P+N.
- 25 up to 80A 6P & 8P.

Padlockable handle.
Enclosed changeovers also available under request.

Modular switches

► ZBK SERIES | BASE MOUNTING SWITCHES WITH PADLOCKABLE HANDLE AND CLUTCH DEVICE Ø 22

L1

L2

L3

T1

T2

T3

L1

L2

L3

N

T1

T2

T3

NI

Red - Yellow

Black

3P

3P+N ^{*(1)}

3P

3P+N ^{*(1)}

Amp

Plate
Ø (mm)

Code

Code

Code

Code

20

64

ZBK20VZVHN4A3

ZBK20VZVHN4A4

ZBK20VZVH4A3

ZBK20VZVH4A4

25

64

ZBK25VZVHN4A3

ZBK25VZVHN4A4

ZBK25VZVH4A3

ZBK25VZVH4A4

40

64

ZBK40VZVHN4A3

ZBK40VZVHN4A4

ZBK40VZVH4A3

ZBK40VZVH4A4

63

64

ZBK63VZVHN4A3

ZBK63VZVHN4A4

ZBK63VZVH4A3

ZBK63VZVH4A4

80

64

ZBK80VZVHN4A3

ZBK80VZVHN4A4

ZBK80VZVH4A3

ZBK80VZVH4A4

125

64

ZBK125VZVHN4A3

ZBK125VZVHN4A4

ZBK125VZVH4A3

ZBK125VZVH4A4

^{*(1)} Neutral pole early make and late break.
(Shaft of 152 mm of length included | depth-adjustable).

L1

L2

L3

T1

T2

T3

L1

L2

L3

N

T1

T2

T3

NI

Red - Yellow

Black

3P

3P+N ^{*(1)}

3P

3P+N ^{*(1)}

Amp

Plate
Ø (mm)

Code

Code

Code

Code

25

48

ZBK25VZVHN1A3

ZBK25VZVHN1A4

ZBK25VZVH1A3

ZBK25VZVH1A4

40

48

ZBK40VZVHN1A3

ZBK40VZVHN1A4

ZBK40VZVH1A3

ZBK40VZVH1A4

63

48

ZBK63VZVHN1A3

ZBK63VZVHN1A4

ZBK63VZVH1A3

ZBK63VZVH1A4

80

48

ZBK80VZVHN1A3

ZBK80VZVHN1A4

ZBK80VZVH1A3

ZBK80VZVH1A4

125

48

ZBK125VZVHN1A3

ZBK125VZVHN1A4

ZBK125VZVH1A3

ZBK125VZVH1A4

^{*(1)} Neutral pole early make and late break.
Shaft of 152 mm of length included | depth-adjustable.

L1

L2

L3

2L1

2L2

2L3

1T1

1T2

1T3

2T1

2T2

2T3

L1

L2

L3

2L1

2L2

2L3

2N

1N1

1T1

1T2

1T3

2T1

2T2

2T3

2N

Red - Yellow

Black

6P

8P ^{*(2)}

6P

8P ^{*(2)}

Amp

Plate
Ø (mm)

Code

Code

Code

Code

25

64

ZBK25VZVHN4A6

ZBK25VZVHN4A8

ZBK25VZVH4A6

ZBK25VZVH4A8

40

64

ZBK40VZVHN4A6

ZBK40VZVHN4A8

ZBK40VZVH4A6

ZBK40VZVH4A8

80

64

ZBK80VZVHN4A6

ZBK80VZVHN4A8

ZBK80VZVH4A6

ZBK80VZVH4A8

^{*(2)} 6P + 2N Neutral poles early make and late break.
Shaft of 152 mm of length included | depth-adjustable.

Modular switches

► ZBK SERIES | DOOR MOUNTING BY SCREWS SWITCHES

L1

L2

L3

T1

T2

T3

L1

L2

L3

N

T1

T2

T3

NI

Red - Yellow

Black

3P

3P+N ^{*(1)}

3P

3P+N ^{*(1)}

Amp

Plate
Ø (mm)

Code

Code

Code

Code

20

64

ZBK20EHN4A3

ZBK20EHN4A4

ZBK20EH4A3

ZBK20EH4A4

25

64

ZBK25EHN4A3

ZBK25EHN4A4

ZBK25EH4A3

ZBK25EH4A4

40

64

ZBK40EHN4A3

ZBK40EHN4A4

ZBK40EH4A3

ZBK40EH4A4

63

64

ZBK63EHN4A3

ZBK63EHN4A4

ZBK63EH4A3

ZBK63EH4A4

80

64

ZBK80EHN4A3

ZBK80EHN4A4

ZBK80EH4A3

ZBK80EH4A4

125

64

ZBK125EHN4A3

ZBK125EHN4A4

ZBK125EH4A3

ZBK125EH4A4

^{*(1)} Neutral pole early make and late break.
Depth-adjustable shaft.

L1

L2

L3

T1

T2

T3

L1

L2

L3

N

T1

T2

T3

NI

Red - Yellow

Black

3P

3P+N ^{*(1)}

3P

3P+N ^{*(1)}

Amp

Plate
Ø (mm)

Code

Code

Code

Code

20

48

ZBK20EHN1A3

ZBK20EHN1A4

ZBK20EH1A3

ZBK20EH1A4

25

48

ZBK25EHN1A3

ZBK25EHN1A4

ZBK25EH1A3

ZBK25EH1A4

40

48

ZBK40EHN1A3

ZBK40EHN1A4

ZBK40EH1A3

ZBK40EH1A4

63

48

ZBK63EHN1A3

ZBK63EHN1A4

ZBK63EH1A3

ZBK63EH1A4

80

48

ZBK80EHN1A3

ZBK80EHN1A4

ZBK80EH1A3

ZBK125EH1A4

^{*(1)} Neutral pole early make and late break.

Modular switches

► ZBK SERIES | BASE MOUNTING BY SCREWS OR DIN RAIL MOUNTING SWITCHES

L1
L2
L3

T1
T2
T3

L1
L2
L3
N

T1
T2
T3
N1



		Red - Yellow		Black	
		3P	3P+N ^{*(1)}	3P	3P+N ^{*(1)}
Amp	Plate □ (mm)	Code	Code	Code	Code
20	52x45	ZBK20SMAHN1A3	ZBK20SMAHN1A4	ZBK20SMAH1A3	ZBK20SMAH1A4
25	52x45	ZBK25SMAHN1A3	ZBK25SMAHN1A4	ZBK25SMAH1A3	ZBK25SMAH1A4
40	52x45	ZBK40SMAHN1A3	ZBK40SMAHN1A4	ZBK40SMAH1A3	ZBK40SMAH1A4
63	52x45	ZBK63SMAHN1A3	ZBK63SMAHN1A4	ZBK63SMAH1A3	ZBK63SMAH1A4
80	52x45	ZBK80SMAHN1A3	ZBK80SMAHN1A4	ZBK80SMAH1A3	ZBK80SMAH1A4
125	78x45	ZBK125SMAHN1A3	ZBK125SMAHN1A4	ZBK125SMAH1A3	ZBK125SMAH1A4

^{*(1)} Neutral pole early make and late break.

1L1 1L2 1L3 2L1 2L2 2L3

1T1 1T2 1T3 2T1 2T2 2T3

1L1 1L2 1L3 1N 2L1 2L2 2L3 2N

1T1 1T2 1T3 1N1 2T1 2T2 2T3 2N*



		Red - Yellow		Black	
		6P	8P	6P	8P ^{*(2)}
Amp	Plate □ (mm)	Code	Code	Code	Code
25	52x45	ZBK25SMAHN1A6	ZBK25SMAHN1A8	ZBK25SMAH1A6	ZBK25SMAH1A8
40	52x45	ZBK40SMAHN1A6	ZBK40SMAHN1A8	ZBK40SMAH1A6	ZBK40SMAH1A8
80	97x45	ZBK80SMAHN1A6	ZBK80SMAHN1A8	ZBK80SMAH1A6	ZBK80SMAH1A8

^{*(2)} 6P + 2N Neutral poles early make and late break.

► ZBK SERIES | BASE MOUNTING BY SCREWS OR DIN RAIL MOUNTING CHANGEOVER SWITCHES

L1
L2
L3
N

1T1 2T1 1T2 2T2 1T3 2T3 1N1 2N*



		Black	
		3P+N ^{*(1) (2)}	
Amp	Plate □ (mm)	Code	
20	97x45	ZBK20SMAH1U4	
25	97x45	ZBK25SMAH1U4	
40	97x45	ZBK40SMAH1U4	
63	126x45	ZBK63SMAH1U4	

^{*(1)} Neutral pole early make and late break.

^{*(2)} 3P changeovers also available under request.

Supplied with bridging links included.

Also available in plastic enclosure (under request).

Modular switches

► ZBK SERIES | PLASTIC ENCLOSED SOLUTIONS

L1 L2 L3 PE

T1 T2 T3 PE

L1 L2 L3 N PE

T1 T2 T3 N1 PE



		Red - Yellow ^{*(2)}	
		3P	3P+N ^{*(1)}
Amp	Plate □ (mm)	Code	Code
20	64	ZBK20PFHN4A3	ZBK20PFHN4A4
25	64	ZBK25PFHN4A3	ZBK25PFHN4A4
40	64	ZBK40PFHN4A3	ZBK40PFHN4A4
63	64	ZBK63PFLHN4A3	ZBK63PFLHN4A4
80	64	ZBK80PFLHN4A3	ZBK80PFLHN4A4
125	64	ZBK125PFLHN4A3	ZBK125PFLHN4A4

^{*(1)} Neutral pole early make and late break.

1L1 1L2 1L3 2L1 2L2 2L3 PE

1T1 1T2 1T3 2T1 2T2 2T3 PE

1L1 1L2 1L3 1N 2L1 2L2 2L3 2N PE

1T1 1T2 1T3 1N1 2T1 2T2 2T3 2N* PE



		Red - Yellow ^{*(2)}	
		6P	8P ^{*(3)}
Amp	Plate □ (mm)	Code	Code
25	64	ZBK25PFLHN4A6	ZBK25PFLHN4A8
40	64	ZBK40PFLHN4A6	ZBK40PFLHN4A8
80	64	ZBK80PFLHN4A6	ZBK80PFLHN4A8

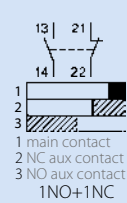
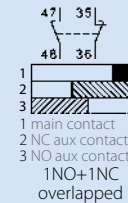
^{*(2)} Black/grey handle under request.

^{*(3)} 6P + 2N Neutral poles early make and late break.

^{*(4)} Enclosed changeovers also available under request.

► ZBK SERIES ACCESSORIES



		Auxiliary contacts		PE - Terminal	N - Terminal		N - Fixed neutral	Extended shaft	
		 1 main contact 2 NC aux contact 3 NO aux contact 1NO+1NC	 1 main contact 2 NC aux contact 3 NO aux contact 1NO+1NC overlapped	 PE PE	 N N1		 N N	 L (mm)	
For currents A (Ith)		20 - 125	20 - 125	20 - 80	20 - 40	63 - 80	20 - 80	20 - 125	L
Code		ZBK1H11	ZBK1H11X	ZBKPE80V	ZBK40V	ZBK80V	ZBKPE80V	ZBK-0002	200
		ZBK1H11	ZBK1H11X	ZBKPE80E	ZBK40E	ZBK80E	ZBKPE80E	-	-

Other options also available under request:

- Products with customized shaft dimensions (max. L = 400mm)

- Products for door mounting ø22

- Terminal shrouds

Switch-disconnectors

Testing and approvals:



All the switch-disconnectors series are based on a sandwich-type body that contains self-cleaning knife contacts, with pre-arc zones to ensure long term and fault-free energy transmission. In addition, the contacts are silver alloy coated with the aim to ensure a long electromechanical life.

According to:

IEC 60947-3 | IEC 61439-2 | RoHS

Functional and ergonomic handle

Direct or external and in different colours: blue or red/yellow (emergency, only external).



Possibility of incorporating

Different devices and accessories



The spring operation provides quick and independent switching due to the accumulation of elastic potential energy, which is transmitted at a high speed to enable the arc extinction.

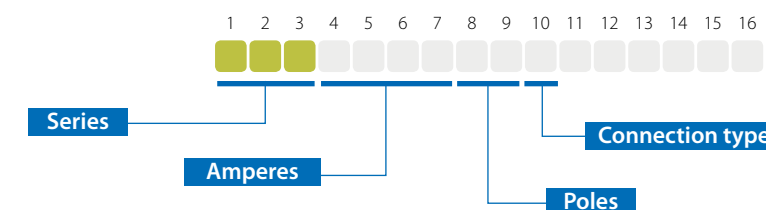
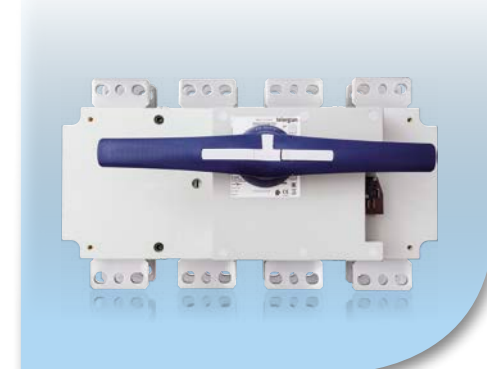
Base mounting

With screws



Wide range of ratings

New switch S6/S6N with great flexibility and versatility of connection



1 2 3 4 5
S 5 -

S5 series

3P & 3P+N.
Available from 40A up to 6300A.
Switching under load up to 800Vac.

Breaking current up to 8 times the operational current.



1 2 3 4 5
S 6 -

S6 & S6N series

3P & 3P+N.
From 1250 A up to 3150 A.
Footprint up to 45% smaller than S5.

Compact design.
Optimized phase to phase distance.



1 2 3 4 5
S 6 -

S6 series

2P, 3P & 3P+N.
Available from 200A up to 800A.

Molded case adjusted to the number of poles.



1 2 3 4 5
S 5 M

S5M series

6P & 8P.
Available from 125A up to 1000A.

Back to back arrangement with operating mechanism in side.



1 2 3 4 5
S 6 N

S6N series

6P & 8P.
Available from 250A.

Back to back arrangement with operating mechanism in front, in order to increase the number of available contacts between 6 and 8.



0-I
1 2 3 4 5
UM - S

UM-S series

Motorized unit kit 0 - 1.
Wide range of currents depending on series:
- For **S5**: From 250A up to 3150A.
- For **S6** (2P, 3P & 4P): From 200A up to 800A.
- For **S5M** y **S6N** (6P & 8P): From 125A up to 3150A.

One or two voltages depending on model
120 - 230 Vac (for DC values, please consult).

For further information, please see pages 22-25.

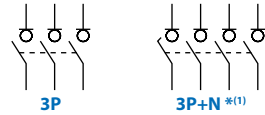
Switch-disconnectors

S5, S6 & S6N | BASE MOUNTING SWITCHES | 3 & 4P | 40A-6300A



Amp.	Size	Connection	3P	3P+N ^{*(1)}	Manual handle 		
					External ^{*(2)}	Direct	Emergency external ^{*(2)}
			Code	Code	Code	Code	Code
40	00		S5-00403PB0	S5-00403NB0	DS-SA01	DS-SI01	DS-SR01
63			S5-00633PB0	S5-00633NB0			
80			S5-00803PB0	S5-00803NB0			
125	0		S5-01253PB0	S5-01253NB0	DS-SA01	DS-SI01	DS-SR01
125			S5-01253PS0	S5-01253NS0			
160			S5-01603PB0	S5-01603NB0			
160			S5-01603PS0	S5-01603NS0			
200			S5-02003PS0	S5-02003NS0			
250			S5-02503PR0	S5-02503NR0			
315	1		S5-03153PR0	S5-03153NR0	DS-SA11	DS-SI11	DS-SR11
400			S5-04003PC0	S5-04003NC0			
500			S5-05003PR0	S5-05003NR0			
630	2		S5-06303PR0	S5-06303NR0	DS-LA21	DS-LI21	DS-LR21
800			S5-08003PC0	S5-08003NC0			
1000	3		S5-10003PC0	S5-10003NC0	DS-LA31	DS-LI31	DS-LR31
1250	4 (S6)		S6-12503PS0	S6-12503NS0	DS-LA41	DS-LI41	DS-LR41
1600			S6-16003PS0	S6-16003NS0			
1800			S6-18003PS0	S6-18003NS0			
2000	5 (S6N)		S6N20003PS0	S6N20003NS0	DS-LA41	DS-LI41	DS-LR41
2500			S6N25003PS0	S6N25003NS0			
3150			S6N31503PS0	S6N31503NS0			
4000	6 (S5)		S5-40003PP0	S5-40003NP0	DS-EN61 ^{*(3)}	-	-
5000			S5-50003PP0	S5-50003NP0			
6300			S5-63003PP0	S5-63003NP0			

New S6 and S6N codes.



S6 | BASE MOUNTING SWITCHES | 2, 3 & 4P | 200A-800A



Amp.	Size	Connection	2P	3P	3P+N ^{*(1)}	Manual handle 		
						External ^{*(2)}	Direct	Emergency external ^{*(2)}
			Code	Code	Code	Code	Code	Code
200	1		S6-02002PS0	S6-02003PS0	S6-02003NS0	DS-SA11	DS-SI11	DS-SR11
250			S6-02502PS0	S6-02503PS0	S6-02503NS0			
315			S6-03152PS0	S6-03153PS0	S6-03153NS0			
400			S6-04002PD0	S6-04003PD0	S6-04003ND0			
500	2		S6-05002PD0	S6-05003PD0	S6-05003ND0	DS-LA21	DS-LI21	DS-LR21
630			S6-06302PS0	S6-06303PS0	S6-06303NS0			
800			S6-08002PD0	S6-08003PD0	S6-08003ND0			

For high performance range (800Vac), please consult the corresponding full details.

For Kit Motorized units - See pages 24-25.

- ^{*(1)} Neutral pole early make & late break - 4P versions with "simultaneous contacts" are also available (please, consult).
- ^{*(2)} Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool). Door interlocked by a padlock in OFF 0 position.
- ^{*(3)} Slide bar handle, only standard door interlock. Please, consult the corresponding full details.
- ^{*(4)} A standard shaft is included with the external handle.

 Please indicate in your order the switch code and the handle code, as these both products are managed separately.



Size	□	Shaft extensions ^{*(4)}		Auxiliary contacts ^{*(5)}		DIN rail mounting	Safety key lock device ^{*(6)}		Terminal protection ^{*(7)}	Phase barriers			Terminal shrouds ^{*(7)} (3P - 1 unit 4P - 2 units)			Terminal shrouds ^{*(7)} (2 units)
		Type 1 & 2		1NO+1NC	2NO+2NC	Code (2 units)	Simple	Double	Code	1 unit	2 units	3 units	Up 3P	Down 3P	Up or Down 4P	Code
		L	Code ^{*(e1)}	Code	Code		Code ^{*(e1)}	Code ^{*(e1)}		Code	Code	Code	Code	Code	Code	
00	7	250	DS-EP04	D5LAU01	D5LAU02	-	DS-CAB1	DS-CEB1	-	-	-	-	-	-	-	-
		387	DS-EP05													
0	7	250	DS-EP04	D5LAU01	D5LAU02	DS-DN01							-	-	-	
		387	DS-EP05			DS-DN01							-	-	-	
													DS-CU02	DS-CU03	DS-CU04	
													-	-	-	
													DS-CU02	DS-CU03	DS-CU04	
													DS-CU05	DS-CU06	DS-CU07	
													DS-CU05	DS-CU06	DS-CU07	
1	10	375	DS-EP14	D5LAU01	D5LAU02	-	DS-CA11	DS-CE11	DS-CU12	-	-	-	-	-	-	DS-CU11
		536	DS-EP15													
2	14	345	DS-EP23	D5LAU01	D5LAU02	-	DS-CB21	DS-CF21	DS-CU22	-	-	-	-	-	-	DS-CU21
		535	DS-EP24													
3	14	345	DS-EP23	D5LAU01	D5LAU02	-	DS-CB31	DS-CF31	-	-	-	-	-	-	-	DS-CU31
		535	DS-EP24													
4 (S6)	14	485	DS-EP44	D5LAU01	D5LAU02	-	DS-CB41	DS-CF41	3P DR-CU41	DR-SF41	DR-SF42	DR-SF43	-	-	-	-
		635	DS-EP45						4P DR-CU42							
5 (S6N)	-	-	-	D5LAU01	D5LAU02	-	DS-CB41	DS-CF41	-	-	DR-SF44	DR-SF45	-	-	-	-
6 (S5)	-	-	-	DS-AU11	DS-AU12	-	DS-CS41	DS-CD41	-	-	-	-	-	-	-	-

^{*(P2)} The bridging links must be assembled to the switch in order to comply with the operation and electrical features. Please, consult for more information.

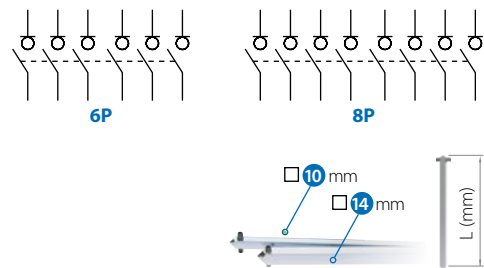


Shaft extensions ^{*(4)}		Auxiliary contacts ^{*(5)}		Safety key lock device ^{*(6)}		Spacers	Phase barriers			Terminal shrouds ^{*(7)}			
□	Type 1 & 2		1NO+1NC	2NO+2NC	Simple	Double	(4 units)	(1 unit)	(2 units)	(3 units)			
	L	Code ^{*(e1)}	Code	Code	Code ^{*(e1)}	Code ^{*(e1)}	Code	Code	Code	Code	Code	Code	Code
10	375 536	DS-EP14 DS-EP15	D5LAU01	D5LAU02	DS-CA11	DS-CE11	DR-EL11	DR-SF11	DR-SF12	DR-SF13	DR-CU11	DR-CU12	DR-CU13
14	345 535	DS-EP23 DS-EP24	D5LAU01	D5LAU02	DS-CB21	DS-CF21	DR-EL21	DR-SF21	DR-SF22	DR-SF23	DR-CU21	DR-CU22	DR-CU23

- ^{*(5)} To be used as signaling or control contacts – I_e = 16A (resistive loads) 4A (inductive loads) at 250 Vac. Whilst closing, it closes after the main contacts. Whilst opening, it opens before the main contacts.
- ^{*(6)} Handle interlocked in OFF 0 position by using a key, that only can be removed when the handle is unlocked. Interlocking in other positions available under request.
- ^{*(7)} One set or one unit for input or output. Terminals shrouds for S5N only for frontal switch. These accessories aren't compatible with each other.
- ^{*(e1)} All these codes are related to the new handle . In case of replacements for old design handles, please consult.

Switch-disconnectors

► S5M & S6N | BASE MOUNTING SWITCHES | 6 & 8P | 125A-1800A



Amp.	Size	Connection	6 pole (6P)	8 pole (8P)	Manual handle			Shaft extensions ^{*(2)}		
					External ^{*(1)}	Direct	Emergency external ^{*(1)}		Type 1 & 2	
			Code	Code	Code	Code	Code		L	Code ^{*(e1)}
125	0 (S5M)		S5M01256PS0	S5M01258PS0	DS-LA01	DS-SI01	DS-LR01	-	-	-
160			S5M01606PS0	S5M01608PS0						
200			S5M02006PS0	S5M02008PS0						
250	1 (S6N)		S6N02506PS0	S6N02508PS0	DS-SA11	DS-SI11	DS-SR11	10	375 536	DS-EP14
315			S6N03156PS0	S6N03158PS0						DS-EP15
400			S6N04006PD0	S6N04008PD0						
500			S6N05006PD0	S6N05008PD0						
630	2 (S6N)		S6N06306PS0	S6N06308PS0	DS-LA21	DS-LI21	DS-LR21	14	345 535	DS-EP23
800			S6N08006PD0	S6N08008PD0						DS-EP24
1000	3 (S5M)		S5M10006PC0	S5M10008PC0	DS-LA41	DS-LI41	DS-LR41	-	-	-
1250	4 (S6N)		S6N12506PS0	S6N12508PS0	DS-LA41	DS-LI41	DS-LR41	-	-	-
1600			S6N16006PS0	S6N16008PS0						
1800			S6N18006PS0	S6N18008PS0						

For Kit Motorized units - See pages 24-25.

^{*(1)} Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool). Door interlocked by a padlock in OFF 0 position.
^{*(2)} A standard shaft is included with the external handle.
^{*(3)} To be used as signaling or control contacts – I_e = 16A (resistive loads) 4A (inductive loads) at 250 Vac. Whilst closing, it closes after the main contacts. Whilst opening, it opens before the main contacts.

Please indicate in your order the switch code and the handle code, as these both products are managed separately.



Size	Auxiliary contacts ^{*(3)}		Safety key lock device ^{*(4)}		Phase barriers ^{*(5)}			Terminal shrouds ^{*(5)} (1 unit)			Terminal shrouds ^{*(5)} (2 units)
	1NO+1NC	2NO+2NC	Simple	Double	1 unit	2 units	3 units	Up 6P	Down 6P	Up or Down 8P	Only switches
	Code	Code	Code ^{*(e1)}	Code ^{*(e1)}	Code	Code	Code	Code	Code	Code	Code
0 (S5M)	DS-AU11	DS-AU12	DS-CAB1	DS-CEB1	-	-	-	DS-CU02	DS-CU03	DS-CU04	-
								DS-CU02	DS-CU03	DS-CU04	
								DS-CU05	DS-CU06	DS-CU07	
1 (S6N)	D5LAU01	D5LAU02	DS-CA11	DS-CE11	-	-	-	-	-	-	-
2 (S6N)	D5LAU01	D5LAU02	DS-CB21	DS-CF21	-	-	-	-	-	-	-
3 (S5M)	DS-AU11	DS-AU12	DS-CB21	DS-CF21	-	-	-	-	-	-	DS-CU31
4 (S6N)	D5LAU01	D5LAU02	DS-CB41	DS-CF41	DR-SF41	DR-SF42	DR-SF43	-	-	-	-

^{*(4)} Handle interlocked in OFF 0 position by using a key, that only can be removed when the handle is unlocked. Interlocking in other positions available under request.
^{*(5)} One set or one unit for input or output. Terminals shrouds for S5M only for frontal switch. These accessories aren't compatible with each other.
^{*(e1)} All these codes are related to the new handle. In case of replacements for old design handles, please consult.

Changeover switches

Testing and approvals:    

All the changeover series offer a high operating load capacity and a high-level disconnection insulation, which ensures reliability and safety in unusual

According to:

IEC 60947-3 | IEC 61439-2 | RoHS

situations. The compact models are with visible cutoff and performed internally the common output without the need for external connections.

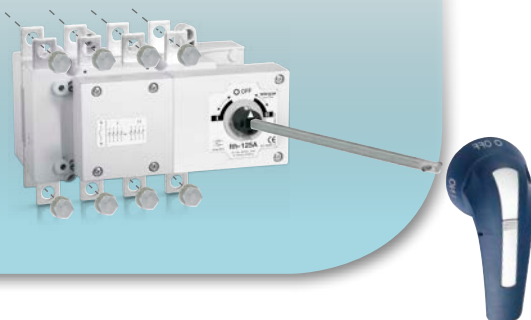
Direct or external

In blue colour



Base mounting

With screws



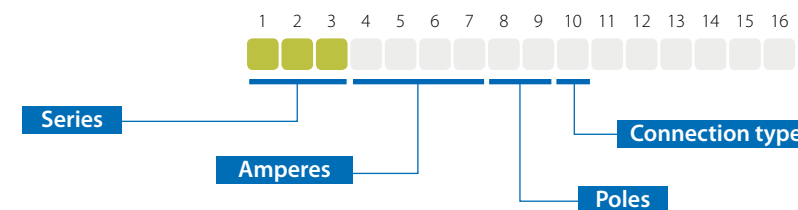
Possibility of incorporate

Different devices and accessories



Preventive security in all these series

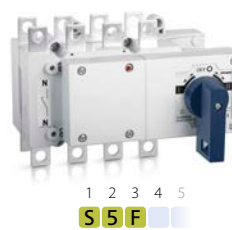
Neutral pole early-make & late-break for 3P+N



CEC series

Compact efficient changeover switch.
3P & 3P+N.
Available from 63A up to 125A.
Modular design and reduced sized.
High electrical performance (AC23A).

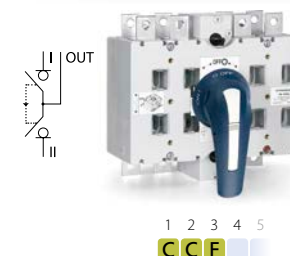
Common output from the up (captive nut allows for a one-handed wire installation process).
Flexible mounting.



S5F series

3P & 3P+N.
Available from 125A up to 200A and from 1600A up to 3150A.

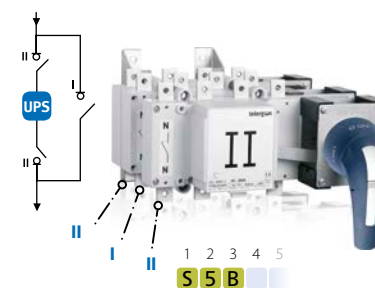
Back to back arrangement.



CCF series

Compact changeover.
3P & 3P+N.
Available from 200A up to 1250A.

Visible cut-off.
Common output from the front.



S5B series

Bypass changeover.
3P & 3P+N.

Available from 125A up to 2000A.
Overlapped contacts I I + II II available under request.



UM-C series

Motorized unit kit 1 - 0 - 2.
- For **S5F** from 125A up to 200A and from 1600A up to 3150A.
- For **CCF** from 200A up to 1250A.
- For **S5B** from 125A up to 2000A.

One or two voltages depending on model 120 - 230 Vac (for DC values, please consult).
For further information, please see pages 24-25.

Changeover switches

CEC, S5F & CCF SERIES
BASE MOUNTING CHANGEOVER SWITCHES
3 & 4P | 63A-3150A



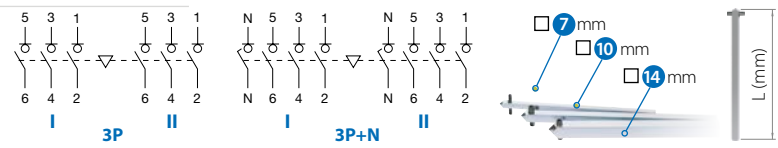
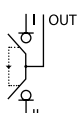
CEC



S5F

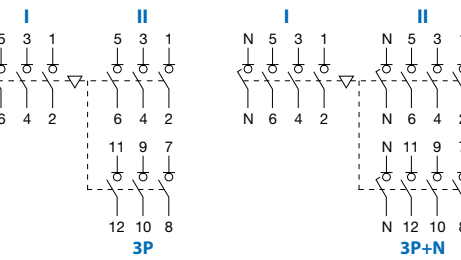
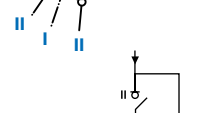


CCF



Amp.	Size	Connection	Series	3P	3P+N ^{*(1)}	Manual handle		Shaft extensions ^{*(4)}		
				Code	Code	External ^{*(3)}	Direct		Type 1 & 2	
						Code	Code		L	Code ^{*(e1)}
63	00		CEC	CEC00633PB0	CEC00633NB0	DCELAB1	D5LSI01	7	250	DS-EP04
63			CEC	CEC00633PS0	CEC00633NS0				387	DS-EP05
80			CEC	CEC00803PB0	CEC00803NB0					
80			CEC	CEC00803PS0	CEC00803NS0					
100			CEC	CEC01003PS0	CEC01003NS0					
125	0		CEC	CEC01253PS0	CEC01253NS0	D5LLA01	D5LSI01	7	250	DS-EP04
125			S5F	S5F01253PS0	S5F01253NS0				387	DS-EP05
160			S5F	S5F01603PS0	S5F01603NS0					
200			S5F	S5F02003PS0	S5F02003NS0					
200			CCF	CCF02003PS0	CCF02003NS0					
250	1		CCF	CCF02503PS0	CCF02503NS0	DCCLA11	DCCLI11	10	375	DS-EP14
315			CCF	CCF03153PS0	CCF03153NS0				536	DS-EP15
400			CCF	CCF04003PS0	CCF04003NS0					
500	2		CCF	CCF05003PS0	CCF05003NS0	DCCLA21	DCCLI21	14	345	DS-EP23
630			CCF	CCF06303PS0	CCF06303NS0				535	DS-EP24
800			CCF	CCF08003PS0	CCF08003NS0					
1000	3		CCF	CCF10003PS0	CCF10003NS0	DCCLA31	DCCLI31	14	345	DS-EP23
1250			CCF	CCF12503PS0	CCF12503NS0				535	DS-EP24
1600	4		S5F	S5F16003PS0	S5F16003NS0	D5LLA31	D5LLI32	-	-	-
1800			S5F	S5F18003PS0	S5F18003NS0					
2000			S5F	S5F20003PD0	S5F20003ND0					
2500	5		S5F	S5F25003PS0	S5F25003NS0	D5LEN51	DS-EI61	-	-	-
3150			S5F	S5F31503PS0	S5F31503NS0					

S5B SERIES
BYPASS CHANGEOVER SWITCHES
3 & 4P | 125A-2000A



Amp.	Size	Connection	3P	3P+N ^{*(1)}	Manual handle	
			Code	Code	External ^{*(3)}	Direct
					Code	Code
125	0		S5B01253PS0	S5B01253NS0	D5LLA01	D5LSI02
160			S5B01603PS0	S5B01603NS0		
200			S5B02003PS0	S5B02003NS0		
250			S5B02503PR0	S5B02503NR0		
315			S5B03153PR0	S5B03153NR0		
400	1		S5B04003PC0	S5B04003NC0	D5LLA11	D5LLI12
500			S5B05003PR0	S5B05003NR0		
630			S5B06303PR0	S5B06303NR0		
800	2		S5B08003PR0	S5B08003NR0	D5LLA21	D5LLI22
1000			S5B10003PC0	S5B10003NC0		
1250			S5B12503PS0	S5B12503NS0		
1600	4		S5B16003PS0	S5B16003NS0	D5LLA31	D5LLI32
1800			S5B18003PS0	S5B18003NS0		
2000			S5B20003PD0	S5B20003ND0		

^{*(1)} Neutral pole early make & late break - 4P versions with "simultaneous contacts" are also available (please, consult).

^{*(2)} There are versions of changeover switches without OFF 0 position:
S5F (I - II) = S5D _____ - Please, consult.
CCF "overlapped" (I - I+II - II) = CCS _____ - Please, consult.

^{*(3)} Padlockable handle only in OFF 0 position.

^{*(4)} A standard shaft is included with the external handle.

Please indicate in your order the switch code and the handle code, as these both products are managed separately.

For Kit Motorized units - See pages 24-25.



Size	Auxiliary contacts ^{*(6)}		Safety ^{*(7)} key lock device		Rear protective plate	Bridging links	Terminal shrouds ^{*(8)}				Terminal shrouds ^{*(8)} (1 unit)			Phase barrier ^{*(8)}	
	1NO+1NC	2NO+2NC	Simple	Double	Code	Code (4 units)	3P input	3P common output	4P input position I & II	4P common output	Up 3P	Down 3P	Up or Down 4P	Only changeover switches	
	Code	Code	Code ^{*(e1)}	Code ^{*(e1)}			Code	Code	Code	Code	Code	Code	Code	3P	4P
	Code	Code	Code ^{*(e1)}	Code ^{*(e1)}			Code	Code	Code	Code	Code	Code	Code	Code	Code
00	DCEAUB1	-	-	-	-	-	-	-	-	-	-	-	-	DCECUB1	DCECUB2
0	DS-AU11	DS-AU12	D5LCBB1	D5LCFB1	-	D5LPC03	-	-	-	-	DS-CU02	DS-CU03	DS-CU04	DS-PB01	DS-PB02
											DS-CU02	DS-CU03	DS-CU04	DS-PB01	DS-PB02
											DS-CU05	DS-CU06	DS-CU07	DS-PB04	DS-PB03
1	D5LAU01	D5LAU02	D5LCB11	D5LCF11	3P DCCPP11	-	position I DM2CU12	DCCCU11	DM2CU13	DCCCU12	-	-	-	-	-
					4P DCCPP12	-	position II DM2CU11								
2	D5LAU01	D5LAU02	D5LCB21	D5LCF21	3P DCCPP21	-	position I DM2CU22	DCCCU21	DM2CU23	DCCCU22	-	-	-	-	-
					4P DCCPP22	-	position II DM2CU21								
3	D5LAU01	D5LAU02	D5LCB31	D5LCF31	3P DCCPP31	-	position I DM2CU32	DCCCU31	DM2CU33	DCCCU32	-	-	-	-	-
					4P DCCPP32	-	position II DM2CU31								
4	DS-AU11	DS-AU12	D5LCB41	D5LCF41	-	D5LPC42	-	-	DS-CU41	DS-CU41	-	-	-	-	-
5	DS-AU11	DS-AU12	D5LCB41	D5LCF41	-	-	-	-	-	-	-	-	-	-	-



Size	Auxiliary contacts ^{*(6)}		Safety key lock device ^{*(7)}		Terminal ^{*(8)} protection	Terminal shrouds ^{*(8)} (2 units)	Terminal shrouds ^{*(8)} (1 unit)		
	1NO+1NC	2NO+2NC	Simple	Double	Code	Only changeover switches	Up 3P	Down 3P	Up or Down 4P
	Code	Code	Code ^{*(e1)}	Code ^{*(e1)}		Code	Code	Code	Code
	Code	Code	Code ^{*(e1)}	Code ^{*(e1)}		Code	Code	Code	Code
0	DS-AU11	DS-AU12	D5LCBB1	D5LCFB1	DS-CU01	-	DS-CU02	DS-CU03	DS-CU04
							DS-CU05	DS-CU06	DS-CU07
1	DS-AU11	DS-AU12	D5LCB11	D5LCF11	DS-CU12	DS-CU11	-	-	-
2	DS-AU11	DS-AU12	D5LCB21	D5LCF21	-	DS-CU21	-	-	-
3	DS-AU11	DS-AU12	D5LCB31	D5LCF31	-	DS-CU31	-	-	-
4	DS-AU11	DS-AU12	D5LCB41	D5LCF41	-	DS-CU41	-	-	-

^{*(5)} There are versions of bypass changeover switch without OFF 0 position "overlapped":
S5B "overlapped" (I - I + II - II) = S5S _____ - Please, consult.

^{*(6)} To be used as signaling or control contacts - Ie = 16A (resistive loads) 4A (inductive loads) at 250 Vac. Whilst closing, it closes after the main contacts. Whilst opening, it opens before the main contacts.

^{*(7)} Handle interlocked in OFF 0 position by using a key, that only can be removed when the handle is unlocked.

^{*(8)} One set or one unit for input or output. Terminals shrouds for S5B and S5F only for frontal switch. These accessories aren't compatible with each other.

^{*(e1)} All these codes are related to the new handle. In case of replacements for old design handles, please consult.

Motorized switch-disconnectors & changeover

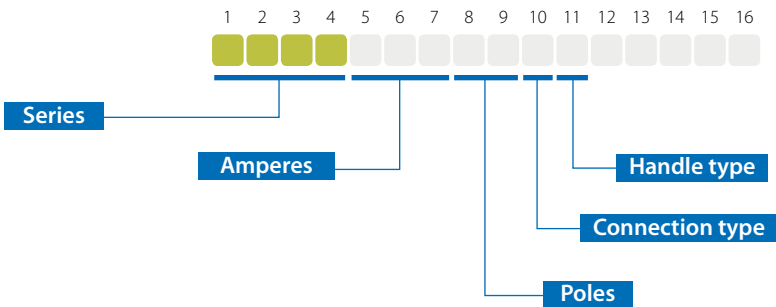
Testing and approvals:  

Motorized units to automate the drive system of the switch-disconnectors, changeover switches and by-pass changeover switches. The kit concept simplifies

According to:

IEC 60947-1&3 | RoHS | European Standard 2014/35/UE
European standard 2014/30/UE of EMC.

both logistics and maintenance, since allows an easy and simple assembly. All the series are equipped with a selector for automatic-manual-lock operating modes.



1 2 3 4 5
UM-S

UM-S series

Supply voltage - 230 Vac ^{*(1)}.

For switch-disconnectors:

S5 Sizes 1-2 | 3P & 3P+N
ready to motorize (250A... 800A).

S6 Sizes 1-2 | 2P, 3P & 3P+N
ready to motorize (200A... 800A).

Supply voltage 120 - 230 Vac ^{*(1)} with MODBUS.

For switch-disconnectors:

S5 Size 3 | 3P & 3P+N
ready to motorize (1000A).

S6N Size 1 | 6P & 8P
ready to motorize (250A... 500A).

^{*(1)} Consult for DC values, please.

S6N Size 2 | 6P & 8P
ready to motorize (630A... 800A).

S5M Size 3 | 6P & 8P
ready to motorize (1000A).

^{*(1)} Consult for DC values, please.



1 2 3 4 5
UM-C

UM-C series

Supply voltage 230 Vac ^{*(1)}.

For changeover switches:

S5F Size 0 | 3P & 3P+N
standard (125A... 200A).

CCF Size 1 | 3P & 3P+N
standard (200A...400A)

CCF Size 2 | 3P & 3P+N
standard (500A... 800A).

S5B Size 0 | 3P & 3P+N
standard (125A... 200A).

S5B Size 1 | 3P & 3P+N
ready to motorize (250A... 400A).

^{*(1)} Consult for DC values, please.

Supply voltage 120 - 230 Vac ^{*(1)} with MODBUS

For changeover switches:

CCF Size 2 | 3P & 3P+N
standard (500A... 800A).

CCF Size 3 | 3P & 3P+N
standard (1000A.....1250A)

S5F Sizes 4-5 | 3P & 3P+N
standard (1600A... 3150A)

S5B Sizes 2-3 | 3P & 3P+N
ready to motorize (500A... 1000A)

S5B Size 4 | 3P & 3P+N
standard (1250A... 2000A).

^{*(1)} Consult for DC values, please.

Kit motorized unit for switch-disconnectors & changeover switches

S5 SERIES | SWITCHES | 3 & 4P | 250A-3150A

 S5	Amp.	Size	Connection	3P	3P+N ^{*(1)}	UM-S Motorized unit kit (O - I) ^{*(2)}	
						120Vac ^{*(3)}	230Vac ^{*(3)}
				Code	Code	Code	Code
 UM	250	1		S5-02503PRC	S5-02503NRC	-	UM-S1A230Z
	315			S5-03153PRC	S5-03153NRC		
	400			S5-04003PCC	S5-04003NCC		
	500			S5-05003PRC	S5-05003NRC		
	630			S5-06303PRC	S5-06303NRC		
 UM	800	2		S5-08003PCC	S5-08003NCC	-	UM-S2A230Z
	1000			S5-10003PCC	S5-10003NCC		
		3				UM-S31120M	UM-S31230M

For Kit Motorized Units for S6 Size 4, please consult.

- UM + S5 sizes 1 - 2 normal mounting
- UM + S5 size 3 normal mounting

S6 SERIES | SWITCHES | 2, 3 & 4P | 200A-800A

 S6	Amp.	Size	Connection	2P	3P	3P+N ^{*(1)}	UM-S Motorized unit kit (O - I) ^{*(2)}	
							230Vac ^{*(3)}	
				Code	Code	Code	Code	
 UM	200	1		S6-02002PSC	S6-02003PSC	S6-02003NSC	UM-S1A230Z	
	250			S6-02502PSC	S6-02503PSC	S6-02503NSC		
	315			S6-03152PSC	S6-03153PSC	S6-03153NSC		
	400			S6-04002PDC	S6-04003PDC	S6-04003NDC		
	500			S6-05002PSC	S6-05003PSC	S6-05003NSC		
 UM	630	2		S6-06302PSC	S6-06303PSC	S6-06303NSC	UM-S2A230Z	
	800			S6-08002PDC	S6-08003PDC	S6-08003NDC		

S5M & S6N SERIES | SWITCHES | 6 & 8P | 125A-2000A

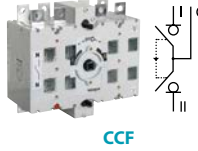
 S6N	Amp.	Size	Connection	6P	8P	UM-S Motorized unit kit (O - I) ^{*(2)}	
						120Vac ^{*(3)}	230Vac ^{*(3)}
				Code	Code	Code	Code
 S5M	250	1 (S6N)		S6N02506PSC	S6N02508PSC	-	UM-S2A230Z
	315			S6N03156PSC	S6N03158PSC		
	400			S6N04006PDC	S6N04008PDC		
	500			S6N05006PDC	S6N05008PDC		
	630			S6N06306PSC	S6N06308PSC		
 UM	800	2 (S6N)		S6N08006PDC	S6N08008PDC	UM-S26120M	UM-S26230M
	1000			S5M10006PCC	S5M10008PCC	UM-S35120M	UM-S35230M

For Kit Motorized Units for S6 Size 4, please consult.

- UM + S6N normal mounting
- UM + S5M size 3 normal mounting
- UM + S5M size 3 inverted mounting (please consult UM codes)

^{*(1)} Neutral pole early make & late break - 4P versions with "simultaneous contacts" are also available (please, consult).
^{*(2)} UM Kit code is just available for the standard corresponding switch or changeover-switch. Please, consult for a different type of mounting or different code of switch or UM kit.
^{*(3)} For DC values, please consult.
For all solutions, please indicate in your order the switch code and the UM Kit code, as these both products are managed separately.

S5F & CCF SERIES | MOTORIZED CHANGEOVER SWITCHES | 3 & 4P | 125A-3150A

 S5F	Amp.	Size	Connection	Series	3P	3P+N ^{*(4)}	UM-C Motorized unit kit (I - O - II) ^{*(6)}	
							120Vac ^{*(8)}	230Vac ^{*(8)}
					Code	Code	Code	Code
 CCF	125	0		S5F	S5F01253PS0	S5F01253NS0	-	UM-C0A230Z
	160			S5F	S5F01603PS0	S5F01603NS0		
	200			S5F	S5F02003PS0	S5F02003NS0		
	200			CCF	CCF02003PS0	CCF02003NS0		
	250			CCF	CCF02503PS0	CCF02503NS0		
 UM	315	1		CCF	CCF03153PS0	CCF03153NS0	-	UM-C1A230Z
	400			CCF	CCF04003PS0	CCF04003NS0		
	500			CCF	CCF05003PS0	CCF05003NS0		
	630			CCF	CCF06303PS0	CCF06303NS0	UM-C21120M	UM-C2A230Z
	800			CCF	CCF08003PS0	CCF08003NS0	UM-C21230M	UM-C21230M
 UM	1000	3		CCF	CCF10003PS0	CCF10003NS0	UM-C31120M	UM-C31230M
	1250			CCF	CCF12503PS0	CCF12503NS0		
	1600			S5F	S5F16003PS0	S5F16003NS0		
	1800			S5F	S5F18003PS0	S5F18003NS0		
	2000			S5F	S5F20003PD0	S5F20003ND0		
 UM	2500	5		S5F	S5F25003PP0	S5F25003NP0	-	UM-C55230M
	3150			S5F	S5F31503PP0	S5F31503NP0		

- UM + S5F size 0 normal mounting
- UM + CCF sizes 1 - 2 normal mounting
- UM + CCF size 3 normal mounting
- UM + S5F sizes 4 - 5 normal mounting
- UM + CCF size 3 inverted mounting (please consult UM codes)
- UM + S5F sizes 4 - 5 inverted mounting (please consult UM codes)

S5B SERIES | MOTORIZED BYPASS CHANGEOVER SWITCHES | 3 & 4P | 125A-2000A

 S5B	Amp.	Size	Connection	3P	3P+N ^{*(4)}	UM-C Motorized unit kit (I - O - II) ^{*(6)}	
						120Vac ^{*(8)}	230Vac ^{*(8)}
				Code	Code	Code	Code
 UM	125	0		S5B01253PS0	S5B01253NS0	-	UM-C0A230Z
	160			S5B01603PS0	S5B01603NS0		
	200			S5B02003PS0	S5B02003NS0		
	250			S5B02503PRC	S5B02503NRC		
	315			S5B03153PRC	S5B03153NRC	UM-C14230Z	
 UM	400	2		S5B04003PCC	S5B04003NCC	UM-C24120M	UM-C24230M
	500			S5B05003PRC	S5B05003NRC		
	630			S5B06303PRC	S5B06303NRC		
	800			S5B08003PRC	S5B08003NRC		
	1000			S5B10003PCC	S5B10003NCC		
 UM	1250	4		S5B12503PS0	S5B12503NS0	-	UM-C44230M
	1600			S5B16003PS0	S5B16003NS0		
	1800			S5B18003PS0	S5B18003NS0		
	2000			S5B20003PD0	S5B20003ND0		

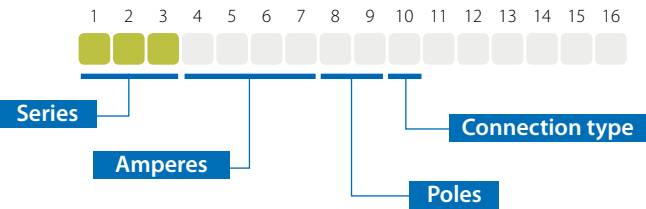
- UM + S5B sizes 0 - 1 normal mounting
- UM + S5B sizes 2 - 3 - 4 normal mounting
- UM + S5B sizes 2 - 3 - 4 inverted mounting (please consult UM codes)

^{*(4)} Neutral pole early make & late break - 4P versions with "simultaneous contacts" are also available (please, consult).
^{*(5)} There are versions of changeover switches without 0 - OFF position (please, consult):
S5F (I - II) = S5D _____
CCF "overlapped" (I - I+II - II) = CCS _____
^{*(6)} UM Kit code is just available for the standard corresponding switch or changeover-switch. Please, consult for a different type of mounting or different code of switch or UM kit.
^{*(4)} There are versions of bypass changeover switch without OFF 0 position "overlapped" (please, consult):
S5B "overlapped" (I - I + II - II) = S5S _____
^{*(8)} For DC values, please consult.

Please indicate in your order the changeover switch code and the UM Kit code, as these both products are managed separately.

Enclosed solutions

Switch-disconnectors and changeover switches in metal enclosures with external padlockable handle in OFF 0 position and the highest protection standards.



1 2 3 4 5
CIS

CIS25C series

Metal enclosed switch.
3P or 3P+N.
Available from 40A up to 3150A.
Protection rating IP55 - IP65.

Possibility of unlocking the door in ON I position (with the use of a tool).
Opening of the door also can be blocked by padlock in OFF 0 position.



1 2 3 4 5
CTR

CTR2 series

Metal enclosed changeover switch.
3P or 3P+N.

Available from 63A up to 3150A.
Protection rating IP55 - IP65.



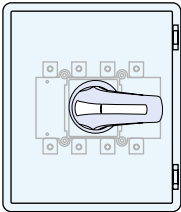
1 2 3 4 5
CTR

CTRCCC & CTRCFC series

Metal enclosed changeover switch 3P+N with gen-set control module integrated and motorized unit.
Operated by motorized unit.
Control module mounted on the door:
For the generators control with automatic switching Mains – Gen set.
Configurable through programming software.

Available from 125A up to 2000A.
Back to back model.
Protection rating IP54.
Power section protected against accidental contacts.
Manual handle included (for emergency operation or maintenance).

► CIS25A & CIS25C SERIES | ENCLOSED SWITCH-DISCONNECTORS (IP65)

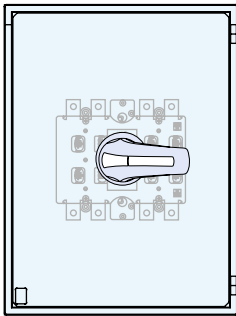


Size	Amp.	3P	3P+N ^{*(2)}
		Code	Code
00	40	CIS25C00403PB	CIS25C00403NB
	63	CIS25C00633PB	CIS25C00633NB
	80	CIS25C00803PB	CIS25C00803NB
0	125	CIS25C01253PB	CIS25C01253NB
	160	CIS25C01603PB	CIS25C01603NB
	200	CIS25C02003PS	CIS25C02003NS
1	250	CIS25C02503PR	CIS25C02503NR
	315	CIS25C03153PR	CIS25C03153NR
	400	CIS25C04003PC	CIS25C04003NC
2	630	CIS25C06303PR	CIS25C06303NR
	800	CIS25C08003PR	CIS25C08003NR
	1000	CIS25C10003PC	CIS25C10003NC
4	1250	CIS26C12503PS	CIS26C12503NS
	1600	CIS26C16003PS	CIS26C16003NS
	1800	CIS26C18003PS	CIS26C18003NS
5	2000	CIS26C20003PS ^{*(3)}	CIS26C20003NS ^{*(3)}
	2500	CIS26C25003PS ^{*(3)}	CIS26C25003NS ^{*(3)}
	3150	CIS26C31503PS ^{*(3)}	CIS26C31503NS ^{*(3)}

^{*(2)} Neutral pole early make-late break.

^{*(3)} IP55.

► CTR2 SERIES | ENCLOSED CHANGEOVER SWITCHES (IP65)

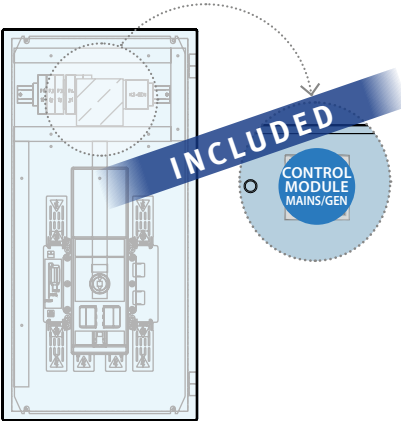


Size	Amp.	3P	3P+N ^{*(2)}
		Code	Code
00	63	CTR2EC00633PB	CTR2EC00633NB
	80	CTR2EC00803PB	CTR2EC00803NB
	100	CTR2EC01003PS	CTR2EC01003NS
0	125	CTR2EC01253PS	CTR2EC01253NS
	160	CTR2FC01603PS	CTR2FC01603NS
	200	CTR2FC02003PS	CTR2FC02003NS
1	250	CTR2CC02503PS	CTR2CC02503NS
	315	CTR2CC03153PS	CTR2CC03153NS
	400	CTR2CC04003PS	CTR2CC04003NS
2	500	CTR2CC05003PS	CTR2CC05003NS
	630	CTR2CC06303PS	CTR2CC06303NS
	800	CTR2CC08003PS	CTR2CC08003NS
3	1000	CTR2CC10003PS	CTR2CC10003NS
	1250	CTR2CC12503PS	CTR2CC12503NS
	1600	CTR2FC16003PS	CTR2FC16003NS
4	1800	CTR2FC18003PS	CTR2FC18003NS
	2000	CTR2FC20003PD	CTR2FC20003ND
5	2500	CTR2FC25003PP ^{*(2)}	CTR2FC25003NP ^{*(2)}
	3150	CTR2FC31503PP ^{*(2)}	CTR2FC31503NP ^{*(2)}

^{*(1)} Neutral pole early make-late break.

^{*(2)} IP55.

► CTR SERIES | ENCLOSED MOTORIZED CHANGEOVER SWITCHES AND CONTROL MODULE (IP54)



Amp.	3P+N ^{*(1)}
	Code
125	CTRCCF01253NSBJ
200	CTRCCF02003NSBJ
250	CTRCCC02503NSBJ
400	CTRCCC04003NSBK
630	CTRCCC06303NSBK
1000	CTRCCC10003NSBK
1250	CTRCCC12503NSBK
1600	CTRCCF16003NSBK
2000	CTRCCF20003NDBK

^{*(1)} Neutral pole early make-late break.

Fuse switches

Testing and approvals:   

Our two fuse switches series –M3 & M21– offer both a high operating load capacity and a high level of insulation. M21 series consist of a sandwich-type body with external housings to insert fuses according

According to:
IEC 60947-3 | IEC 61439-2 | UL98* | RoHS
* under request

Different handles

Depending on the installation mode
(panel or direct)



M3 series

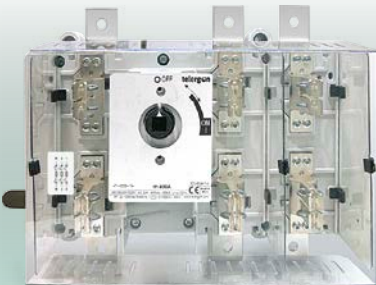
New fully modular range
with compact design



to the appropriate format, while M3 series is a new fully modular range of switch-disconnectors with fuses, conceived to be the most compact products in the market.

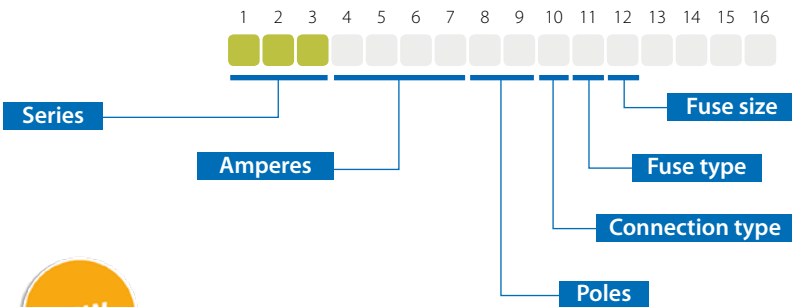
Extreme safety

The interlocked fuse protection covers
cannot be opened while the switch is in
"ON" position.



Possibility of incorporate

Different devices and accessories



M3 series

2P, 3P & 3P+N | 3P+DN.
Up to 250A.

Including the possibility of detachable neutral
(3P+DN).
For different fuses standards.



M21 series

3P & 3P+N.
Available from 400A up to 800A.

Compact model.
Fuse links: NH/DIN and BS.



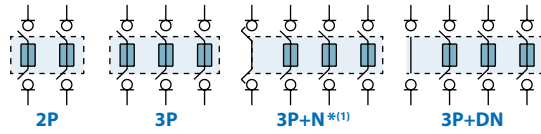
CIF22C & CIF23C series

Metal enclosed fuse switch 3P & 3P+N
Available from 63A up to 800A
Protection rating IP65.

External padlockable handle with locking door
in ON 1 position.
Removing door blocked by padlock when
handle is in OFF 0 position.

Switch fuses

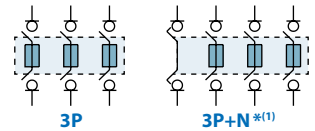
► M3 SERIES | SWITCH-FUSES | 2P, 3P, 3P+N & 3P+DN | 32A-250A



Amp.	Fuse	Size	Connection	2P	3P	3P+N ^{*(1)}	3P+DN (detachable neutral)	Manual handle 	
								External handle	Direct handle
				Code	Code	Code	Code	Frontal ^{*(2)}	Frontal
32	10x38	000		M3-00322PBC00	M3-00323PBC00	M3-00323NBC00	-	-	-
32	BS-A1	00		M3-00322PBB10	M3-00323PBB10	M3-00323NBB10	M3-00323DBB10	DM3SAB1	DM3SIB1
50	14x51			M3-00502PBC20	M3-00503PBC20	M3-00503NBC20	M3-00503DBC20		
63	BS-A2			M3-00632PBB20	M3-00633PBB20	M3-00633NBB20	M3-00633DBB20		
	NH000			M3-00632PBD20	M3-00633PBD20	M3-00633NBD20	M3-00633DBD20		
100	22x58			M3-01002PBC30	M3-01003PBC30	M3-01003NBC30	M3-01003DBC30		
	BS-A3			M3-01002PBB30	M3-01003PBB30	M3-01003NBB30	M3-01003DBB30		
	NH000			M3-01002PBD30	M3-01003PBD30	M3-01003NBD30	M3-01003DBD30		
125	NH00	0		M3-01252PTD40	M3-01253PTD40	M3-01253NTD40	M3-01253DTD40	DM3SAB1	DM3SIB1
160	NH00			M3-01602PTD40	M3-01603PTD40	M3-01603NTD40	M3-01603DTD40		
200	BS-A4	1		M3-02002PSB50	M3-02003PSB50	M3-02003NSB50	M3-02003DSB50	DM3SA11	DM3SI11
	BS-B1-B2			M3-02002PSB60	M3-02003PSB60	M3-02003NSB60	M3-02003DSB60		
	NH1, 0, 0S			M3-02502PSD50	M3-02503PSD50	M3-02503NSD50	M3-02503DSD50		
250	BS-B3			M3-02502PSB80	M3-02503PSB80	M3-02503NSB80	M3-02503DSB80		

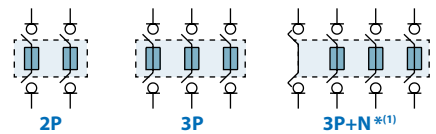
*For UL references, please consult.

► M21 SERIES | SWITCHES | 3P & 4P | 400A-800A



Amp.	Fuse	Size	Connection	3P	3P+N ^{*(1)}	Manual handle 		
						External ^{*(2)}	Direct	Emergency external ^{*(2)}
				Code	Code	Code	Code	Code
400	NH2	2		M2104003PSD20	M2104003NSD20	DS-LA22	DM2SI21	DS-LR22
400	BSB4			M2104003PSB50	M2104003NSB50			
630	NH3	3		M2106303PSD30	M2106303NSD30	DS-LA31	DM2SI31	DS-LR31
800	NH3			M2108003PSD30	M2108003NSD30			
630	BSC1... BSC2			M2106303PSB70	M2106303NSB70			
800	BSC1... BSC3			M2108003PSB80	M2108003NSB80			

► CIF SERIES | METAL ENCLOSED | IP65



Amp.	Fuse	Size	Connection	Series	2P	3P	3P+N ^{*(1)}
					Code	Code	Code
63	NH000	00		M3	CIF23C00632PBD2	CIF23C00633PBD2	CIF23C00633NBD2
100	NH000			M3	CIF23C01003PBD3	CIF23C01003PBD3	CIF23C01003NBD3
125	NH00	0		M3	CIF23C01253PTD4	CIF23C01253PTD4	CIF23C01253NTD4
200	NH1	1		M3	-	-	-
250	NH1			M3	CIF23C02503PSD5	CIF23C02503PSD5	CIF23C00633NBD2
400	NH2	2		M-21	-	CIF22C04003PSD2	CIF22C04003NSD2
630	NH3	3		M-21	-	CIF22C06303PSD3	CIF22C06303NSD3
800	NH3			M-21	-	CIF22C08003PSD3	CIF22C08003NSD3

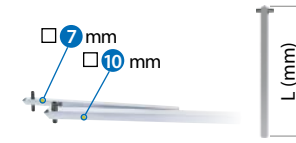
*⁽¹⁾ Neutral pole early make & late break. Also available 4P & 3P+NF under request.

*⁽²⁾ Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool). Also door interlocked by a padlock in OFF 0 position.

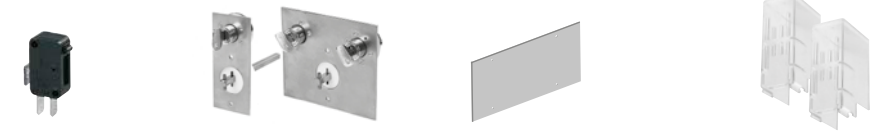
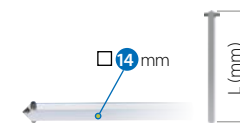
*⁽³⁾ Fuses are not included.



Please indicate in your order the switch code and the handle code, as these both products are managed separately.



Size	Shaft (included with panel handle)	Shaft extensions ^{*(4)}		Auxiliary contacts ^{*(5)}		Safety key lock device ^{*(6)}		Phase barriers	Terminal shrouds ^{*(7)}
				1NO+1NC	2NO+2NC	Simple	Double		
		L	Code ^{*(e1)}	Code	Code	Code ^{*(e1)}	Code ^{*(e1)}	Code	Code
000	-	-	-	DM3AUB1	DM3AUB2	-	-	-	-
00	177	387	DS-EP05	DM3AUB1	DM3AUB2	DS-CAB1	DS-CEB1	-	-
0	177	387	DS-EP05	DM3AUB1	DM3AUB2	DS-CAB1	DS-CEB1	DM3SF01 - 2P	DM3CU01 - 2P
1	227	376	DS-EP14	DM3AUB1	DM3AUB2	DS-CA11	DS-CE11	DM3SF02 - 3P	DM3CU02 - 3P
								DM3SF03 - 4P	DM3CU03 - 4P
								DM3SF11 - 2P	DM3CU11 - 2P
								DM3SF12 - 3P	DM3CU12 - 3P
								DM3SF13 - 4P	DM3CU13 - 4P



Size	Shaft extensions ^{*(4)}		Auxiliary contacts ^{*(5)}		Safety key lock device ^{*(6)}		Rear protective plate		Terminal shrouds ^{*(7)}		
			1NO+1NC	2NO+2NC	Simple	Double	160-200A	250A	3P input	3P output	4P input or output
	Type 1	Code ^{*(e1)}	Code	Code	Code ^{*(e1)}	Code ^{*(e1)}	Code	Code	Code	Code	Code
2	14 345	DS-EP23	D5LAU01	D5LAU02	DS-CB21	DS-CF21	3P DM2PP21	4P DM2PP22	DM2CU21	DM2CU22	DM2CU23
3	14 345	DS-EP23	D5LAU01	D5LAU02	DS-CB31	DS-CF31	3P DM2PP31	4P DM2PP32			



Size	Auxiliary contacts ^{*(5)}		Safety key lock device ^{*(6)}		Terminal shrouds ^{*(7)}		
	1NO+1NC	2NO+2NC	Simple	Double	3P input	3P output	4P input or output
	Code	Code	Code ^{*(e1)}	Code ^{*(e1)}	Code	Code	Code
00	DM3AUB1	DM3AUB2	DS-CAB1	DS-CEB1	-	-	-
0	DM3AUB1	DM3AUB2	DS-CAB1	DS-CEB1	-	DM3CU02	DM3CU03
1	DM3AUB1	DM3AUB2	DS-CA11	DS-CE11	-	DM3CU12	DM3CU13
2	D5LAU01	D5LAU02	DS-CB21	DS-CF21	DM2CU21	DM2CU22	DM2CU23
3	D5LAU01	D5LAU02	DS-CB31	DS-CF31	DM2CU31	DM2CU32	DM2CU33

*⁽⁴⁾ A standard shaft is included with the external handle.

*⁽⁵⁾ To be used as signaling or control contacts – I_e = 16A (resistive loads) 4A (inductive loads) at 250 Vac.

Whilst closing, it closes after the main contacts. Whilst opening, it opens before the main contacts.

*⁽⁶⁾ Handle interlocked in OFF 0 position by using a key, that only can be removed when the handle is unlocked. Interlocking in other positions available under request.

*⁽⁷⁾ One set for input or output.

*^(e1) All these codes are related to the new handle. In case of replacements for old design handles, please consult.

DC switch-disconnectors

Testing and approvals:     



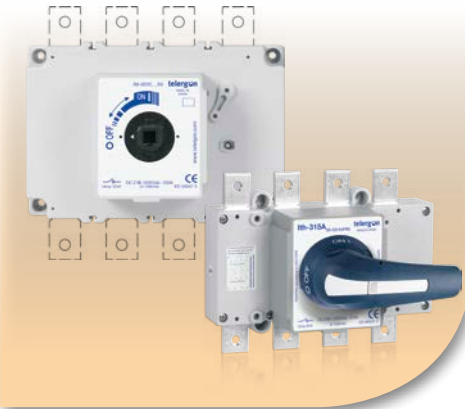
All the DC series offer accurate specifications for photovoltaic applications, as well as a high level of insulation and safety.

According to:
IEC 60947-1&3 | UL508i* | UL98B* | RoHS
* under request

Ergonomic handle
with specific identification
for the isolation only models

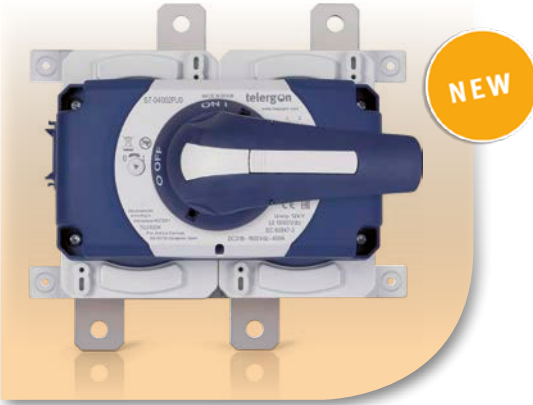


**Diverse sizes
& models**

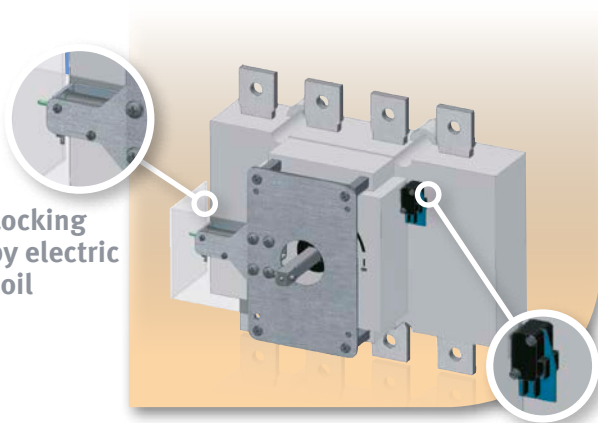


All of them present an easy assembly, which allows a faster installation, while the dimensions and weight are in all cases fully optimized.

S7 series
High performance switch-disconnector
capable of reaching 500A - 1500 Vdc
(750 Vdc per pole)

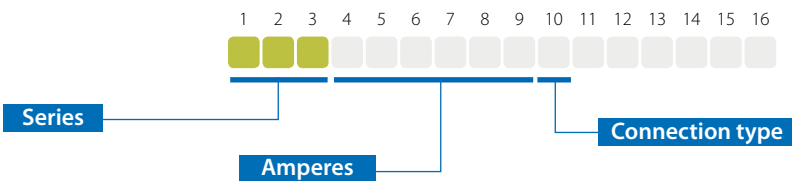


Safety devices
Quick and easy installation



Locking
by electric
coil

Signaling and control
by auxiliary contacts



ZFC & ZFV series

U_e MAX 1000 | 1500 Vdc I_e MAX 65 A DC 21B.
Modular switches and small design.
Multi-string options (multi-MPP).

Base mounting by screws or DIN rail.
Non polarized.

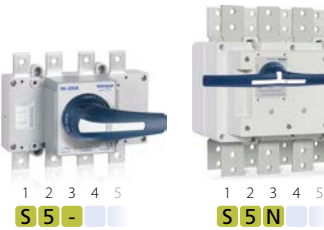


S6 DC series

U_e MAX 1000 Vdc I_e MAX 630 A DC 21B.
1P & 2P.

Different configurations input/output.
Non polarized.

1000V
DC



S5 & S5N DC series

U_e MAX 1000 Vdc I_e MAX 3150 A DC 21B.
4P.
Non polarized.

S5N: Back to back arrangement with
operating mechanism in front (4P +4P).
From 2000A up to 3150A.

1000V
DC



S7 DC series

U_e MAX 1500 Vdc I_e MAX 500 A DC 21B pure 2P.
Maximized electrical performance.

Easy to install and maintain.

1500V
DC



S5M series

U_e MAX 1500 Vdc I_e MAX 1800A DC 21B.
4P+4P.

Back to back with operating mechanism
in side.

1500V
DC



DC switch-disconnectors

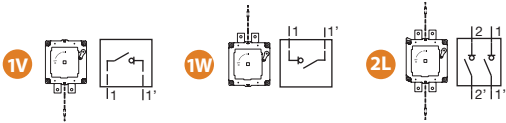
S6 DC SERIES | SWITCHES | 1P & 2P | 125A-630A



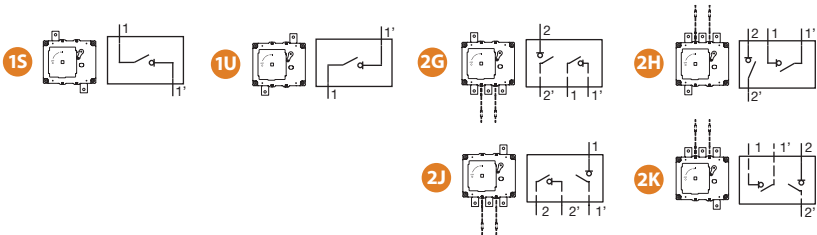
1P 2P *(2)	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	Diagram *(2)	Manual handle	
	Ue				Code	External*(1) Code	Direct Code
	500V - 750V - 1000V DC21B	125	1		S6-0125__S0	DS-SA11	DS-SI11
		160			S6-0160__S0		
		200			S6-0200__S0		
		250			S6-0250__S0		
		315			S6-0315__S0		
		400			S6-0400__D0		
		500	2		S6-0500__S0	DS-LA21	DS-LI21
		630			S6-0630__S0		
	500V - 750V - 1000V DC21B	250	1		S6-0250__S00L*	DS-SA11	-
		400	2		S6-0400__S00L*	DS-LA21	-

* References only UL.

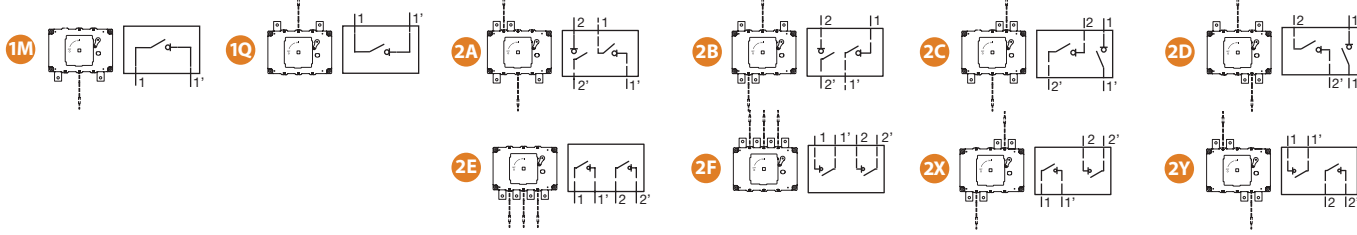
500V DC



750V DC



1000V DC



S5 & S5N SERIES | SWITCHES | 4P | 850A-3150A

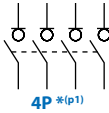


S5 DC



S5N DC

4P *(p1)	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	4 pole (4P) *(p1)	Manual handle	
	Ue				Code	External*(1) Code	Direct Code
	1000V DC21B	850	3		S5-12504PC0	DS-LA31	DS-LI31
		1250			S5-12502EC0		
		1250	4		S5-18004PS0	DS-LA41	DS-LI41
		1800			S5-18002ES0		
		2000			S5-20002ED0		
		2000			S5N20002ES0		
		2500	5 (S5N)		S5N25002ES0	DS-LA41	DS-LI41
		3150			S5N31502ES0	DS-LA41	DS-LI41

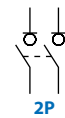


Size	Shaft extensions *(3)		Bridging links *(p1)		Auxiliary contacts *(5)		Terminal protection		Terminal shrouds (2 units) *(4)
	□	Type 1 & 2 L	Code *(e1)	Code	1NO+1NC Code	2NO+2NC Code	Connection	Code	Code
3	14	345	DS-EP23		DS-PI31	D5LAU01	-	-	DS-CU30
		535	DS-EP24		DS-PI3D				DS-CU31
4	14	485	DS-EP44		DS-PI41 (S5-18004PS0)	D5LAU01	-	-	DS-CU38
		635	DS-EP45		DS-PI4D (S5-18002ES0 - S5-20002ED0)				DS-CU39
		-	-		DS-PI51 + D5LPC45				DS-CU40
5 (S5N)	-	-	-		DS-PI51 + D5LPC45	D5LAU01	-	-	DS-CU41
		-	-		DS-PI4D + D5LPC45 (x2)				DS-CU48
									DS-CU49



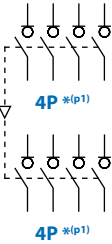
DC switch-disconnectors

► S7 DC SERIES | HIGH-PERFORMANCE SWITCHES | 2P | 160A-500A



2P	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	2P
	Ue				Code
2P	1500 V DC21B	160	1		S7-01602PS0
		200			S7-02002PS0
		250			S7-02502PS0
		315			S7-03152PS0
		400			S7-04002PS0
	1500 V DC UL98B	500			S7-05002PS0
		250			S7-02502PS00L*
		320			S7-03202PS00L*
		400			S7-04002PS00L*
		500			S7-05002PS00L*

* References only UL.



► S5M & S5N SERIES | SWITCHES | 4P+4P | 630A-1800A



S5M DC



S5N DC

4P + 4P *(p1)	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	4P + 4P *(p1)	Manual handle	
	Ue				Code	External *(1)	Direct
4P + 4P *(p1)	1500V DC21B	630	2		S5M080044C0	DS-LA22	DS-LI22
		800	3		S5M080044R0	DS-LA41	DS-LI41
		1000			S5M125044C0	DS-LA41	DS-LI41
		1250	4 (S5N)		S5N160044S0	DS-LA41	DS-LI41
		1800			S5N180044S0	DS-LA41	DS-LI41

► ZFC DC & ZFV DC SERIES | SWITCHES | 2P | 16A-55A

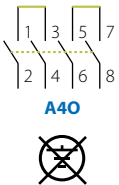


ZFC DC



ZFV DC

2P	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	Code
	Ue				
2P	1500 V DC21B	16	00 (ZFC)		ZFC16SMAH1NA40
		25			ZFC25SMAH1NA40
	1500 V DC21B / DC-PV1	32	00 (ZFV)		ZFV32SMAH1A40
		40			ZFV40SMAH1A40
		55			ZFV55SMAH1A40



*(1) Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool). Door interlocked by a padlock in OFF 0 position.

*(p1) In order to comply with the operation and electrical features, the bridging links must be assembled to the switch.

For references S6N | 2P, S6R | 1P & 2P, please consult Commercial Department.

⚠ Please indicate in your order the switch code and the handle code, as these both products are managed separately.



Size	Manual handle		Auxiliary contacts *(5)		Captive Nut	Spacer Fixing Brackets
	External*(1)	Direct	1NO+1NC	2NO+2NC	Code *(e2)	4 units
	Code	Code	Code	Code		Code
1	DS-SA11	DS-SI11	DM-AU11	DM-AU12	- DM-PT11 DM-PT12 - - -	DM-EL11



3 units



2 units



2 units



4 units



2 units

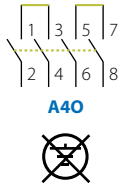


Size	Bridging links *(p1)		Auxiliary contacts *(2)	
	Code		1NO+1NC	2NO+2NC
	Code		Code	Code
2		DS-PI230L	DS-AU11	DS-AU12
		DS-PI2D		
3		DS-PI3D	DS-AU11	DS-AU12
4 (S5N)		DS-PI430U	D5LAU01	D5LAU02
		DS-PI4D		

► ZFC & ZFV DC SERIES | SWITCHES | 2P | 16A-55A



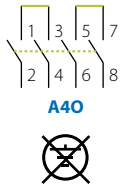
2P	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	Code
	Ue				
2P	1500V DC21B	16	00		ZFC16VZVH4A40
		25			ZFC25VZVH4A40
		32			ZFV32VZVH4A40
		40			ZFV40VZVH4A40
		55			ZFV55VZVH4A40



► ZFC - ZFV DC SERIES | SWITCHES | 2P | 16A-55A



2P	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	Code
	Ue				
2P	1000V DC21B	16	00		ZFC16PFLH4A40
		32			ZFV32PFLH4A40
		55			ZFV55PFLH4A40



*(2) To be used as signaling or control contacts – Ie = 16A (resistive loads) 4A (inductive loads) at 250 Vac.

Whilst closing, it closes after the main contacts. Whilst opening, it opens before the main contacts.

*(3) Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool). Door interlocked by a padlock in OFF 0 position.

*(4) A standard shaft is included with the external handle.

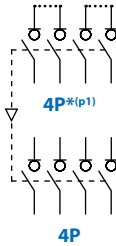
*(e1) All these codes are related to the new handle , in case of replacements for old design handles, please consult.

*(e2) Only IEC.

Changeover AC | DC & DC | DC

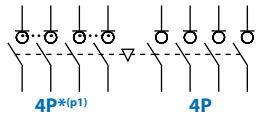
Testing and approvals:    

► S5F AC/DC SERIES | CHANGEOVER SWITCHES BASE MOUNTING | 4P + 4P | 160A-500A



4P + 4P	Rated operational voltage		Size	Connection	4P + 4P ^{*(p1)}	Manual handle 		UM-C Motorized unit kit (I - O - II)
	DC	AC				External ^{*(1)}	Direct	
	DC21B	Amp				Code	Code	
	50 A/800V	160				S5F01604PS0PA4	D5LLA01	
	160 A/1000V	200				S5F02004PR0PA4	D5LLA11	
	250 A/1000V	315	1			S5F03154PR0PA4	D5LLI12	UM-C15230Z
	400 A/1000V	400				S5F04004PC0PA4	D5LLA11	UM-C15230Z
	500 A/1000V	500	2			S5F06304PR0PA4	D5LLA21	UM-C25230M

► S5L AC/DC SERIES | CHANGEOVER SWITCHES BASE MOUNTING | 4P + 4P | 160A-315A



4P + 4P	Rated operational voltage		Size	Connection	4P + 4P ^{*(p1)}	Manual handle 	
	DC	AC				External ^{*(1)}	Direct
	DC21B	Amp				Code	Code
	50 A/800V	160				S5L01604PB0PA4	D5LLA01
	160 A/1000V	200				S5L02004PR0PA4	D5LLA11
	250 A/1000V	315	1			S5L03154PR0PA4	D5LLI12

► ZFC AC/DC SERIES | COMPACT CHANGEOVER SWITCHES | 45A



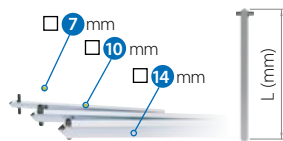
	Rated operational voltage		Size	Connection	Code
	DC	AC			
	DC21B	Amp			
	38 A/1000V	45			ZFC385MAH1NU4DC

^{*(1)} Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool). Door interlocked by a padlock in OFF 0 position.

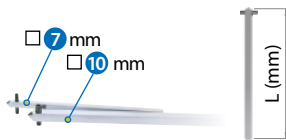
^{*(2)} A standard shaft is included with the external handle.



According to:
IEC 60947-3 | RoHS



Size	Shaft extensions ^{*(2)}			Auxiliary contacts ^{*(3)}		Bridging links ^{*(p1)}	
		Type 1 & 2		1NO+1NC	2NO+2NC	Connection	2 units
		L	Code ^{*(e1)}	Code	Code	Code	Code
		7	250	DS-EP04	DS-AU11	DS-AU12	DS-PI01
0	7	250	DS-EP04	DS-AU11	DS-AU12		DS-PI11
1	10	375	DS-EP14	DS-AU11	DS-AU12		DS-PI11
2	14	345	DS-EP23	DS-AU11	DS-AU12		DS-PI14



Size	Shaft extensions ^{*(2)}			Auxiliary contacts ^{*(3)}		Bridging links ^{*(p1)}	
		Type 1 & 2		1NO+1NC	2NO+2NC	Connection	2 units
		L	Code ^{*(e1)}	Code	Code	Code	Code
		7	250	DS-EP04	D5LAU01	D5LAU02	DS-PI05
0	7	250	DS-EP04	D5LAU01	D5LAU02		DS-PI11
1	10	375	DS-EP14	D5LAU01	D5LAU02		DS-PI11

► DC | DC CHANGEOVER SWITCHES

- 1000Vdc | S5F 160A uo to 500A.
- 1000Vdc | S5L 160A uo to 250A.
- 1500Vdc | 250A uo to 315A.
- 4P+4P.
- For customization and other amperages, please consult.

^{*(3)} For use as signaling and control contacts. In closing operation, they switch after the main contacts. In opening operation, they switch before the main contacts. Ie= 16 (4) A (250 V).

^{*(p1)} In order to comply with the operation and electrical features, the bridging links must be assembled to the switch.

 Please indicate in your order the switch code and the handle code, as these both products are managed separately.

DC ISOLATION ONLY

Testing and approvals: CE cULus IEC

S5 DC & S6 DC SERIES | DISCONNECTORS | 1P | 160A-2000A

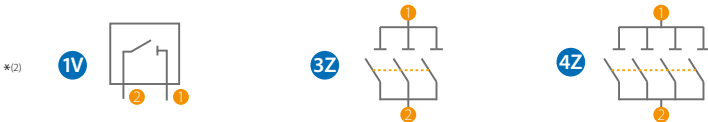


S5 DC
ISOLATION ONLY



S6 DC
ISOLATION ONLY

1P *(p1)	Rated operational voltage	Rated operational current le (A)	Size	Connection	Unipolar (1P) *(p1)		Manual handle ISOLATION ONLY	
	Ue				Code	Diagram	External*(1)	Direct
							Code	Code
1500V DC20A	1	160	1		S6-01601VS0P38	1V	DS-SA11T	DS-SI11T
		200			S6-02001VS0P38	1V		
		250			S6-02501VS0P38	1V		
		400			S6-04001VD0P38	1V		
		800			S5-04003ZC0P38	3Z		
	2	1000	1		S5-04004ZC0P38	4Z	DS-SA11T	DS-SI11T
		630			S6-06301VS0P38	1V		
		1600			S5-08004ZC0P38	4Z		
		2000			S5-12504ZC0P38	4Z		



S5 DC & S6 DC SERIES | DISCONNECTORS | 2P | 160A-3150A

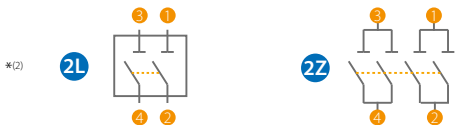


S5 DC
ISOLATION ONLY



S6 DC
ISOLATION ONLY

2P *(p1)	Rated operational voltage	Rated operational current le (A)	Size	Connection	Bipolar (2P) *(p1)		Manual handle ISOLATION ONLY	
	Ue				Code	Diagram	External*(1)	Direct
							Code	Code
1500V DC20A	1	160	1		S6-01602LS0P38	2L	DS-SA11T	DS-SI11T
		200			S6-02002LS0P38	2L		
		250			S6-02502LS0P38	2L		
		400			S6-04002LD0P38	2L		
		630			S6-06302LS0P38	2L		
	2	800	2		S6-08002LD0P38	2L	DS-LA21T	DS-LI21T
		1600			S5-12504ZC0P38	2Z		
		2500			S5-16004ZS0P38	2Z		
		3150			S5-18004ZS0P38	2Z		



*(1) Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool). Door interlock by a padlock in OFF 0 position.

*(2) Other configurations are available. Please, consult.

*(p1) In order to comply with the operation and electrical features, the bridging links must be assembled to the switch.

⚠ Please indicate in your order the switch code and the handle code, as these both products are managed separately.



According to:
IEC 60947-1&3 | UL98 | RoHS



Size	Shaft extensions *(3)		Bridging links *(p1)		Auxiliary contacts *(4)		Phase barriers		Spacers (4 units)	Terminal protection *(5)	Terminal shrouds *(5)
	□	Type 1 & 2		Code	1NO+1NC	2NO+2NC	1 unit	2 units	Code	Code	Code
		L	Code								
1	10	375	DS-EP14	-	D5LAU01	D5LAU02	DR-SF11	DR-SF12	DR-EL11	-	DR-CU11
		536	DS-EP15								
1	10	375	DS-EP14	DS-PI1G DS-PI1H	D5LAU01	D5LAU02	-	-	-	DS-CU12	-
		536	DS-EP15								
2	14	345	DS-EP23	-	D5LAU01	D5LAU02	DR-SF21	DR-SF22	DR-EL21	-	DR-CU21
		535	DS-EP24								
3	14	345	DS-EP23	DS-PI3H	D5LAU01	D5LAU02	-	-	-	-	-
		535	DS-EP24								



Size	Shaft extensions *(3)		Bridging links *(p1)		Auxiliary contacts *(4)		Phase barriers		Spacers (4 units)	Terminal shrouds *(5)
	□	Type 1 & 2		Code	1NO+1NC	2NO+2NC	1 unit	2 units	Code	Code
		L	Code							
1	10	375	DS-EP14	-	D5LAU01	D5LAU02	DR-SF11	DR-SF12	DR-EL11	DR-CU11
		536	DS-EP15							
2	14	345	DS-EP23	-	D5LAU01	D5LAU02	DR-SF21	DR-SF22	DR-EL21	DR-CU21
		535	DS-EP24							
3	14	345	DS-EP23	DS-PI3Lx2	D5LAU01	D5LAU02	-	-	-	-
		535	DS-EP24							
4	14	485	DS-EP44	DS-PI4Kx2	D5LAU01	D5LAU02	-	-	-	-
		635	DS-EP45							

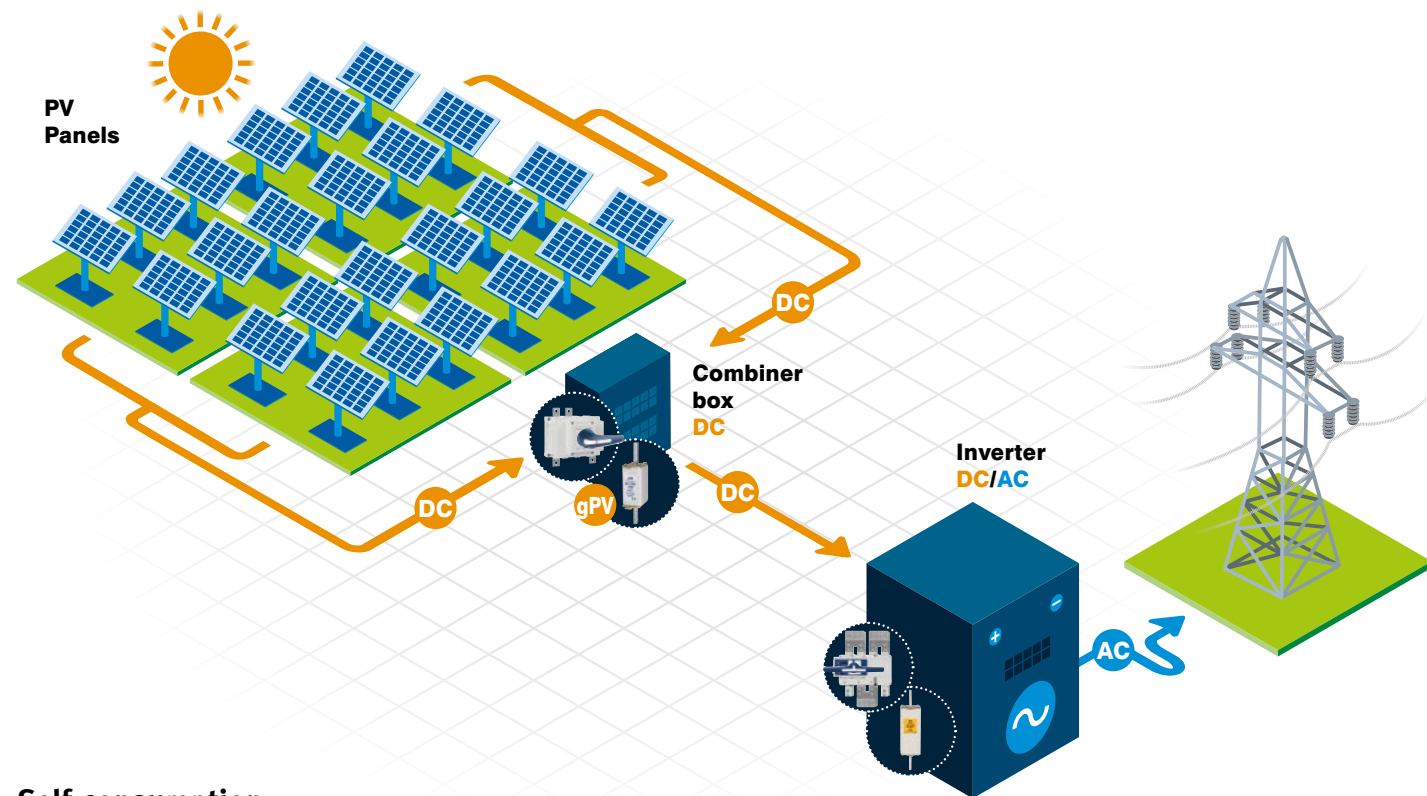
*(3) A standard shaft is included with the external handle.

*(4) To be used as signaling or control contacts - le = 16A (resistive loads) 4A (inductive loads) at 250 Vac. Whilst closing, it closes after the main contacts. Whilst opening, it opens before the main contacts.

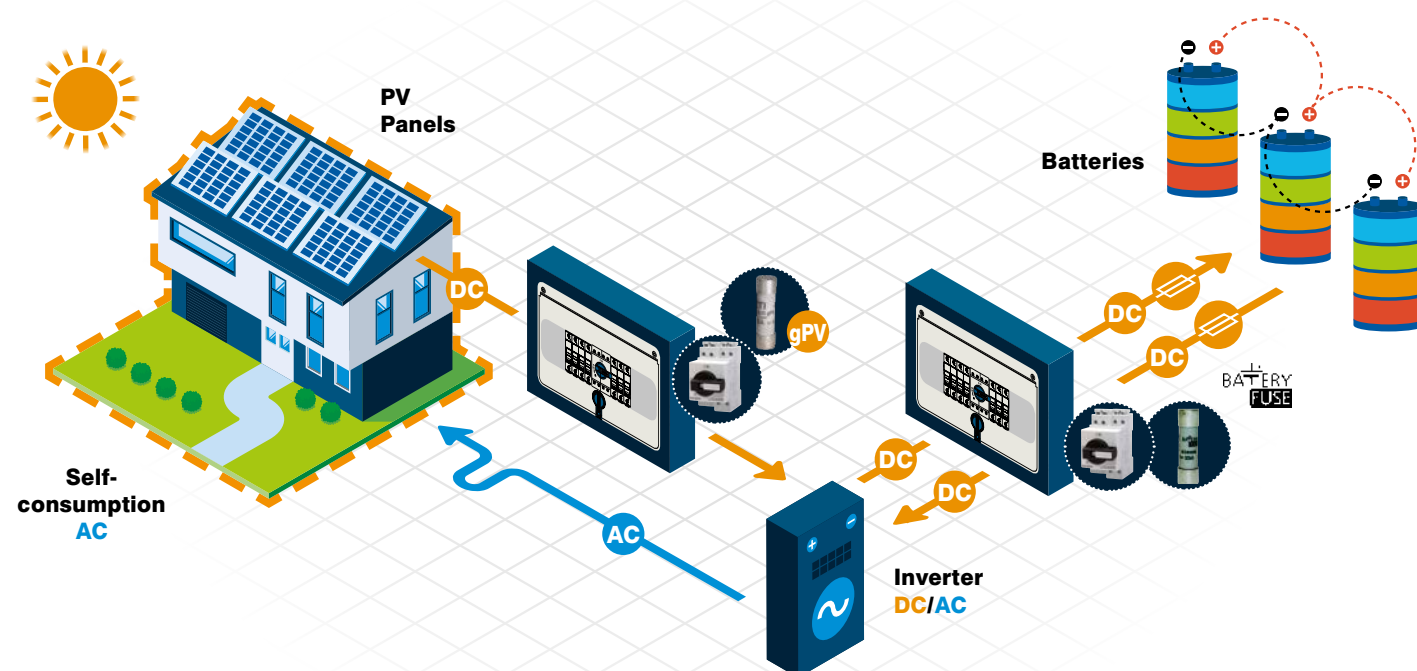
*(5) One unit for input or output.

Green energy applications

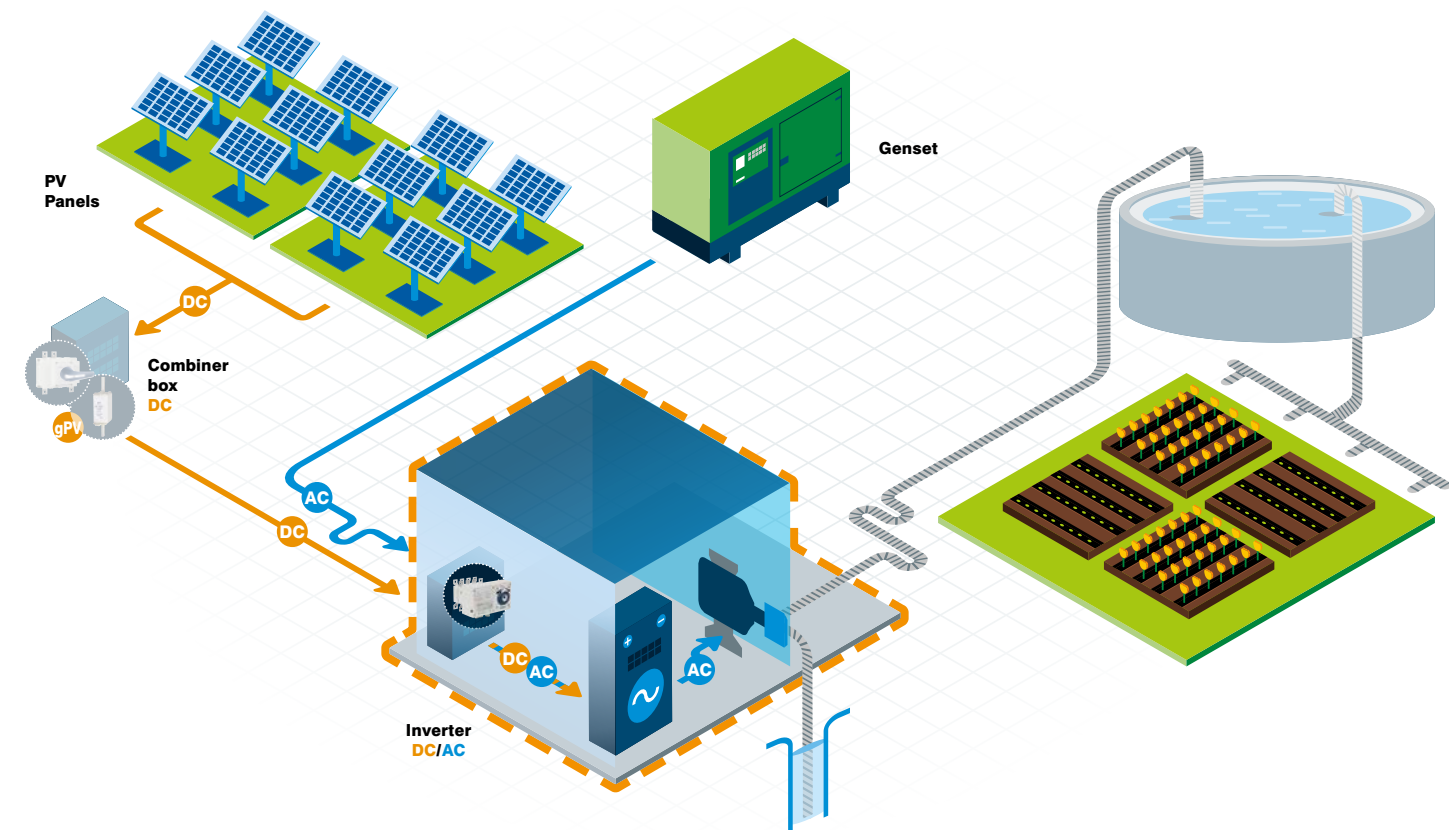
► Photovoltaics Installations



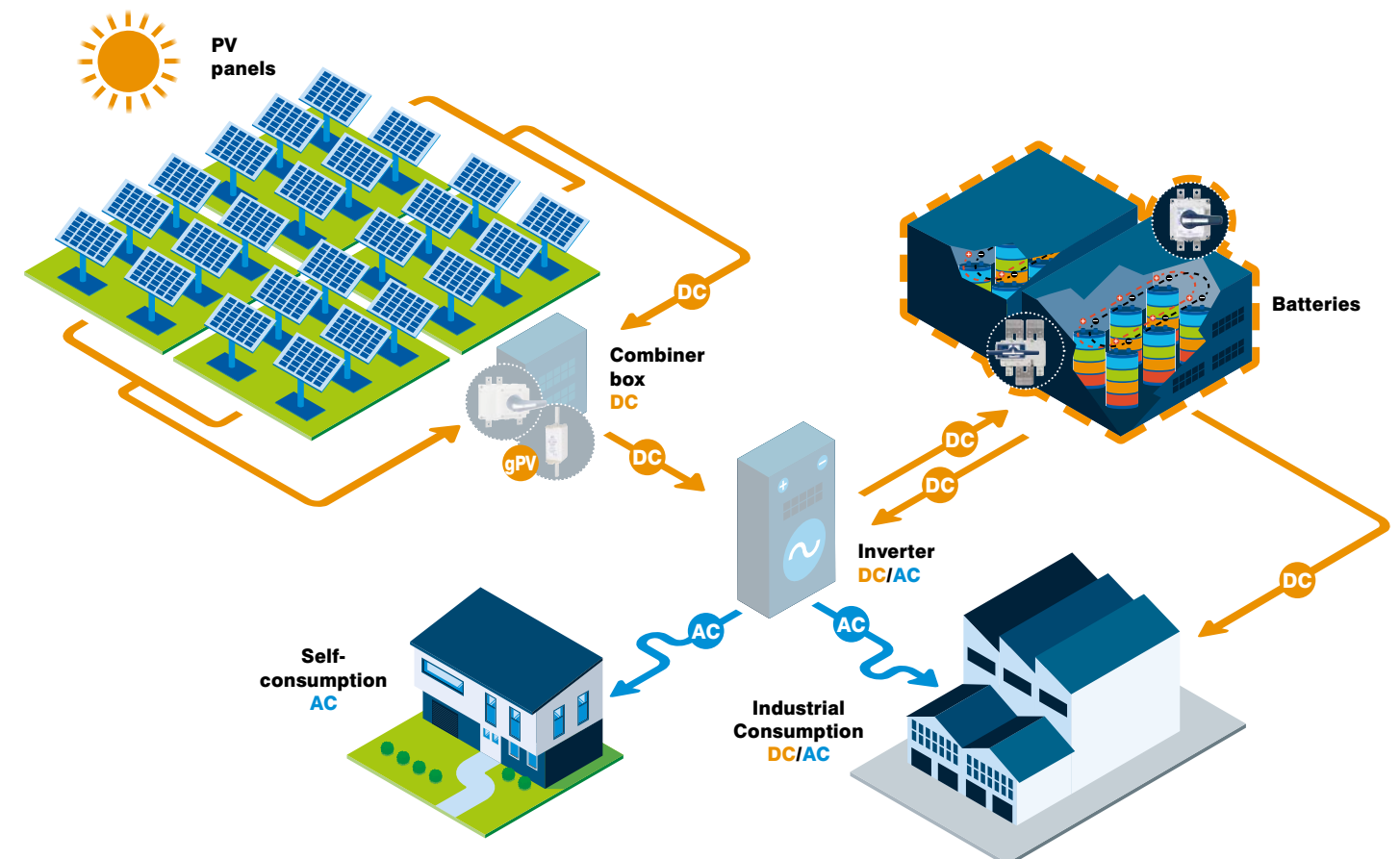
► Self-consumption



► Pumping Systems

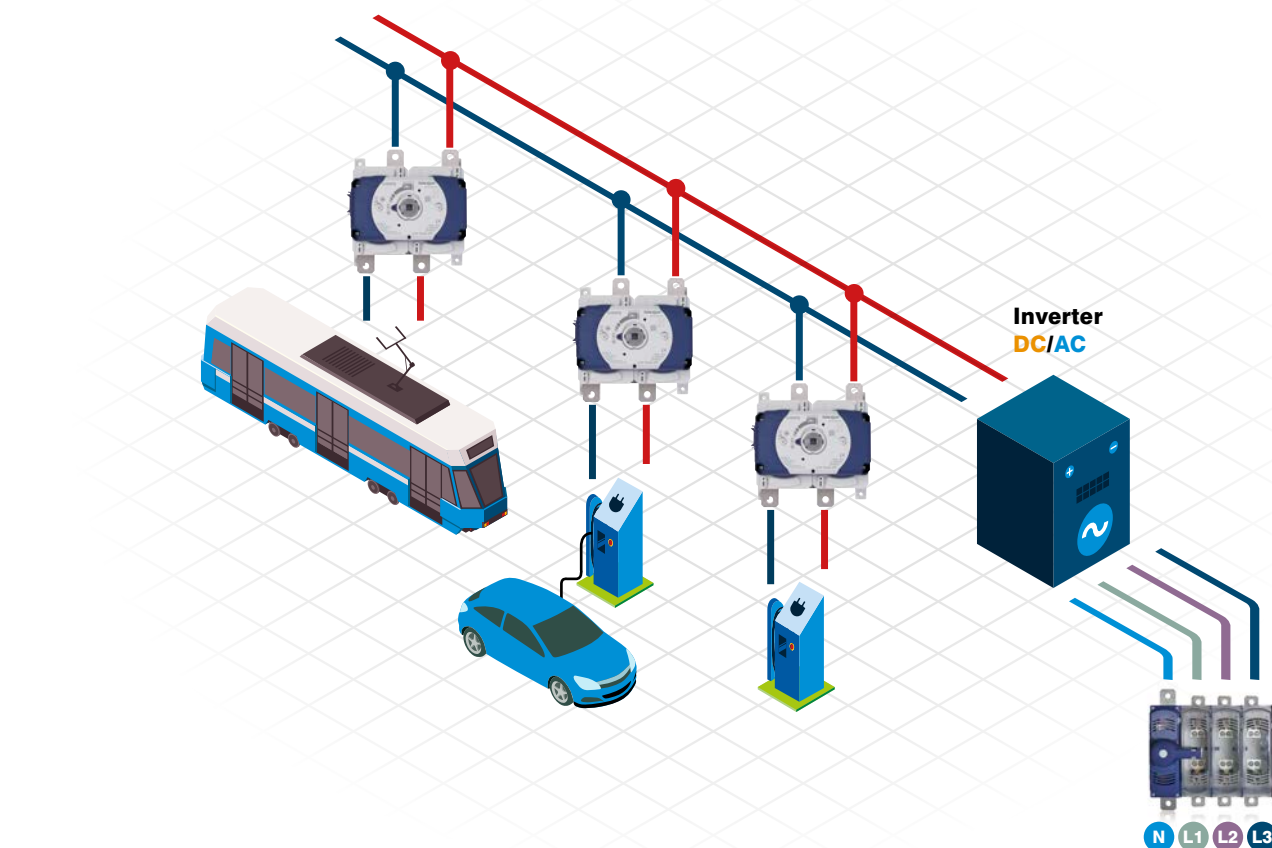


► Battery Energy Storage Systems



The diagram illustrates the architecture of an electrical mobility system. It shows the flow of energy from various sources to different types of vehicles. Key components include:

- Energy Sources:** PV Panels (solar) and BESS (Battery Energy Storage System) units.
- Power Conversion and Distribution:** A Combiner box DC and multiple BESS units are connected via DC lines to a central Charging stations unit.
- Charging Infrastructure:** The Charging stations unit is connected to Charging points (for cars) and a Self-consumption AC unit (for buildings).
- Vehicles:** The system supports different vehicle types: a car connected to a charging point, a car connected to a self-consumption AC unit, and a tram connected to the main DC distribution line.
- Monitoring and Control:** A Metering unit is shown at the bottom, likely for monitoring energy consumption and system performance.



» MAINTENANCE RECOMMENDATIONS:

Electrical installations and their components should be periodically inspected to check they are in good condition. Operability of switches should be checked after an incident, during maintenance or due to ageing.

Tightening torque of electrical connections should be revised as vibrations in the environment and electrical conductivity may loose them affecting to the performance and durability of all components as well.

Not performing preventive maintenance may damage and spoil parts, systems and machines. Moreover it can also cause accidents and injure people.

Before working on equipment or components which may be electrically live, the appropriate safety cautions must be taken by operators, end-users or other staff. Right personal protective equipment (e.g. safety clothes, gloves, goggles, helmet, insulating footwear) should be used, and the appropriate tools for the operation. At the same time, caution measures should be taken to prevent damages to third parties such as warning signs, barriers, mechanical locks, etc.

Prior to use any protective equipment or tools, they must be checked to be in good condition.

Maintenance or repair works should be performed in areas not electrically live by qualified and authorized staff following the applicable regulations and good practices.

Products supplied by Telergon are warranted for a period of 2 years against any manufacturing defect. TELERGON's guarantee is limited to the repair or replacement of the defective goods in the shortest possible time. This warranty does not cover the abuse or improper use by the user according to the technical instructions included in the sale by Telergon, according to the current legislation, or their tampering or misuse. This warranty does not reach in any way third parties, being only applicable to the Customer.

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