telergon
gorlan

Quick selection guide

AC | DC

www.telergon.com

gorlan

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.

telergon
gorlan
The switch specialist

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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.

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

According to:

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

Customized solutions

From 10 A up to 1200 A

Ergonomic handle

With position indicator

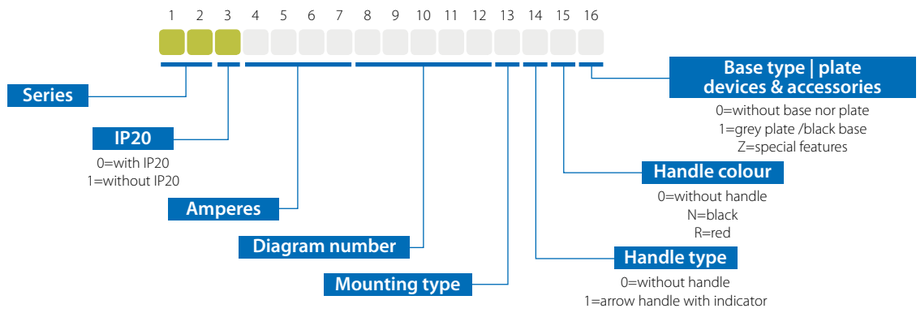
Removable shrouds

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).

Two different bodies depending on mounting type: door or base mounting.

TF series

From 12A up to 32A.

1P up to 12 P.

Square body, smooth sides, axial access to terminal screws.

Two different bodies depending on mounting type: door or base mounting.

TP series

Available for 12A.

1P up to 12 P.

Reduced-sized body.

Door mounting.

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

	Ith		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-0002500010E1N1
	T-011	2P	TP-001000011E1N1	T-0001200011E1N1	T-0002000011E1N1	T-0002500011E1N1
	T-012	3P	TP-001000012E1N1	T-0001200012E1N1	T-0002000012E1N1	T-0002500012E1N1
	T-013	4P	TP-001000013E1N1	T-0001200013E1N1	T-0002000013E1N1	T-0002500013E1N1
	Reversing switches					
	T-101	2P	-	T-0001200101E1N1	T-0002000101E1N1	T-0002500101E1N1
	T-102	3P	-	T-0001200102E1N1	T-0002000102E1N1	T-0002500102E1N1
	Star delta switches					
	T-300	Normal	-	T-0001200300E1N1	T-0002000300E1N1	T-0002500300E1N1
	Dahlander multi-step switches					
	T-330	0-1-2	-	T-0001200330E1N1	T-0002000330E1N1	T-0002500330E1N1
	Changeover switches with center "OFF" 1-0-2					
	T-400	1P	TP-001000400E1N1	T-0001200400E1N1	T-0002000400E1N1	T-0002500400E1N1
	T-401	2P	TP-001000401E1N1	T-0001200401E1N1	T-0002000401E1N1	T-0002500401E1N1
	T-402	3P	TP-001000402E1N1	T-0001200402E1N1	T-0002000402E1N1	T-0002500402E1N1
	T-403	4P	TP-001000403E1N1	T-0001200403E1N1	T-0002000403E1N1	T-0002500403E1N1
	Multi-step switches with "OFF" position 1-0-2 - 1 pole					
	T-410	0+2 positions	-	T-0001200410E1N1	T-0002000410E1N1	T-0002500410E1N1
	T-411	0+3 positions	-	T-0001200411E1N1	T-0002000411E1N1	T-0002500411E1N1
	T-412	0+4 positions	-	T-0001200412E1N1	T-0002000412E1N1	T-0002500412E1N1
	Changeover switches without "OFF" 1-2					
	T-500	1P	-	T-0001200500E1N1	T-0002000500E1N1	T-0002500500E1N1
	T-501	2P	-	T-0001200501E1N1	T-0002000501E1N1	T-0002500501E1N1
	T-502	3P	-	T-0001200502E1N1	T-0002000502E1N1	T-0002500502E1N1
	T-503	4P	-	T-0001200503E1N1	T-0002000503E1N1	T-0002500503E1N1
	Multi-step switches without "OFF" position 1 pole					
	T-510	3 positions	-	T-0001200510E1N1	T-0002000510E1N1	T-0002500510E1N1
	T-511	4 positions	-	T-0001200511E1N1	T-0002000511E1N1	T-0002500511E1N1
	T-512	5 positions	-	T-0001200512E1N1	T-0002000512E1N1	T-0002500512E1N1
	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

Light with white neon lamp

Light with white neon lamp and inscription plate

Tandem drive operation

Blocking operation

Dual voltage locking device

Clutch device with door interlock

Key handle device

Key handle device

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

ARROW HANDLE

PADLOCKABLE HANDLE "MINI" (E TYPE ONLY)

PADLOCKABLE HANDLE

Key lock device

Key lock device with inscription plate

Padlockable handle with inscription plate

Push button blocking system

Push button blocking system with inscription plate

DIN rail mounting device

Front plates for distribution boards

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:

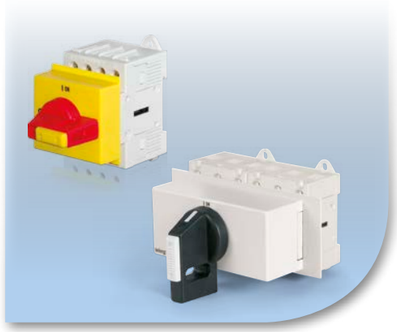
Different modular devices compose the ZBK series, all with a high breaking capacity and contact pressure, allowing an optimized response to short circuits.

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

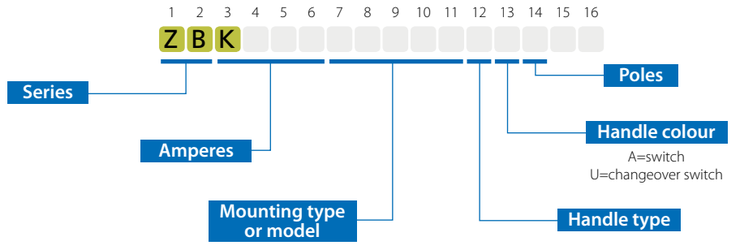
Of mountings

Wide range of currents

from 20 up to 125A

Possibility of incorporate auxiliary terminals

And other accessories



ZBK series

Base mounting switch with padlokable 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.

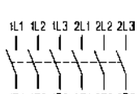
ZBK SERIES | BASE MOUNTING SWITCHES WITH PADLOCKABLE HANDLE AND CLUTCH DEVICE Ø 22

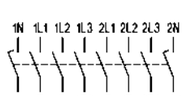
		Red - Yellow		Black	
		3P	3P+N *(1)	3P	3P+N *(1)
Amp	Plate ⍁ (mm)	Code	Code	Code	Code
20	64	**ZBK20VZVHN4A3**	**ZBK20VZVHN4A4**	**ZBK20VZVH4A3**	**ZBK20VZVH4A4**
25	64	**ZBK25VZVHN4A3**	**ZBK25VZVHN4A4**	**ZBK25VZVH4A3**	**ZBK25VZVH4A4**
40	64	**ZBK40VZVHN4A3**	**ZBK40VZVHN4A4**	**ZBK40VZVH4A3**	**ZBK40VZVH4A4**
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).

		Red - Yellow		Black	
		3P	3P+N *(1)	3P	3P+N *(1)
Amp	Plate ⍁ (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.





		Red - Yellow		Black	
		6P	8P *(2)	6P	8P *(2)
Amp	Plate ⍁ (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.

ZBK SERIES | DOOR MOUNTING BY SCREWS SWITCHES

		Red - Yellow		Black	
		3P	3P+N *(1)	3P	3P+N *(1)
Amp	Plate ⍁ (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.

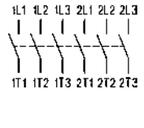
		Red - Yellow		Black	
		3P	3P+N *(1)	3P	3P+N *(1)
Amp	Plate ⍁ (mm)	Code	Code	Code	Code
20	48	**ZBK20EHN1A3**	**ZBK20EHN1A4**	**ZBK20EH1A3**	**ZBK20EH1A4**
25	48	**ZBK25EHN1A3**	**ZBK25EHN1A4**	**ZBK25EH1A3**	**ZBK25EH1A4**
40	48	**ZBK40EHN1A3**	**ZBK40EHN1A4**	**ZBK40EH1A3**	**ZBK40EH1A4**
63	48	**ZBK63EHN1A3**	**ZBK63EHN1A4**	**ZBK63EH1A3**	**ZBK63EH1A4**
80	48	**ZBK80EHN1A3**	**ZBK80EHN1A4**	**ZBK80EH1A3**	**ZBK125EH1A4**

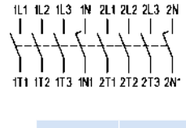
*(1) Neutral pole early make and late break.

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

		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.

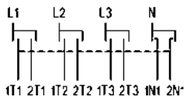




			Red - Yellow		Black	
			6P	8P *(2)	6P	8P *(2)
Amp	Plate ⊠ (mm)		Code	Code	Code	Code
25	52x45	97x45	**ZBK25SMAHN1A6**	**ZBK25SMAHN1A8**	**ZBK25SMAH1A6**	**ZBK25SMAH1A8**
40	52x45	97x45	**ZBK40SMAHN1A6**	**ZBK40SMAHN1A8**	**ZBK40SMAH1A6**	**ZBK40SMAH1A8**
80	97x45	126x45	**ZBK80SMAHN1A6**	**ZBK80SMAHN1A8**	**ZBK80SMAH1A6**	**ZBK80SMAH1A8**

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

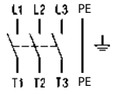
ZBK SERIES | BASE MOUNTING BY SCREWS OR DIN RAIL MOUNTING CHANGEOVER SWITCHES

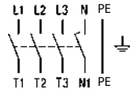


	Black
	3P+N *(1) *(2)
Amp	Plate ⊠ (mm)	Code
20	97x45	**ZBK20SMAH1U4**
25	97x45	**ZBK25SMAH1U4**
40	97x45	**ZBK40SMAH1U4**
63	126x45	**ZBK63SMAH1U4**

*(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).

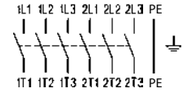
ZBK SERIES | PLASTIC ENCLOSED SOLUTIONS

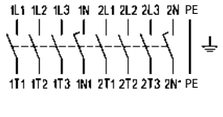




		Red - Yellow *(2)	
		3P	3P+N *(1)
Amp	Plate ⊠ (mm)	Code	Code
20	64	**ZBK20PFHN4A3**	**ZBK20PFHN4A4**
25	64	**ZBK25PFHN4A3**	**ZBK25PFHN4A4**
40	64	**ZBK40PFHN4A3**	**ZBK40PFHN4A4**
63	64	**ZBK63PFLHN4A3**	**ZBK63PFLHN4A4**
80	64	**ZBK80PFLHN4A3**	**ZBK80PFLHN4A4**
125	64	**ZBK125PFLHN4A3**	**ZBK125PFLHN4A4**

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

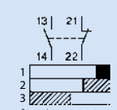
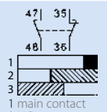




		Red - Yellow *(2)	
		6P	8P *(3)
Amp	Plate ⊠ (mm)	Code	Code
25	64	**ZBK25PFLHN4A6**	**ZBK25PFLHN4A8**
40	64	**ZBK40PFLHN4A6**	**ZBK40PFLHN4A8**
80	64	**ZBK80PFLHN4A6**	**ZBK80PFLHN4A8**

*(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						
For currents A (Ith)		20 - 125	20 - 125	20 - 80	20 - 40	63 - 80	20 - 80	20 - 125	L
Code		**ZBKLH11**	**ZBKLH11X**	**ZBKPE80V**	**ZBKN40V**	**ZBKN80V**	**ZBKPEN80V**	**ZBK-0002**	200
								ZBK-0003	300
		ZBKLH11	**ZBKLH11X**	**ZBKPE80E**	**ZBKN40E**	**ZBKN80E**	**ZBKPEN80E**	-	-

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

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.

Functional and ergonomic handle

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

Base mounting

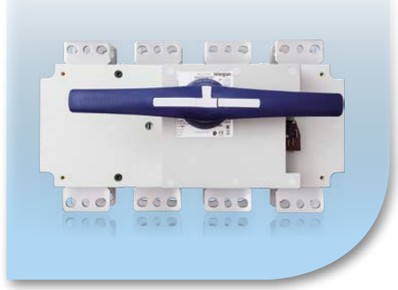
With screws

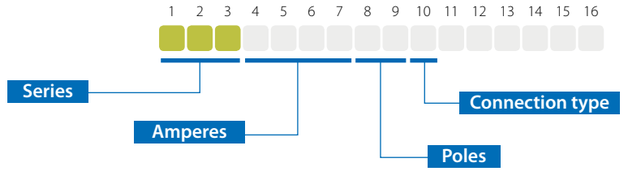
Possibility of incorporating

Different devices and accessories

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 whit 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.

1 2 3 4 5
U M - S

UM-S series

Motorized unit kit 0 - 1.

Wide range of currents depending on series:

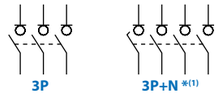
- For **S5**: From 250A up to 3150A.
- For **S6** (2P, 3P & 4P): From 200A up to 800A.
- For **S5M** y **S6N** (6P & 8P): From 125A up to 3150A.

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

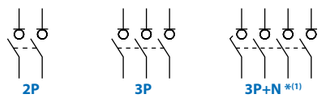
S5, S6 & S6N | BASE MOUNTING SWITCHES | 3 & 4P | 40A-6300A



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	2		S5-05003PR0	S5-05003NR0	DS-LA21	DS-LI21	DS-LR21
630			S5-06303PR0	S5-06303NR0			
800			S5-08003PC0	S5-08003NC0			
1000	3		S5-10003PC0	S5-10003NC0	DS-LA31	DS-LI31	DS-LR31
1250	4 (S6)		S6-12503PS0	S6-12503NS0	3P DS-LA45	3P DS-LI45	3P DS-LR45
1600			S6-16003PS0	S6-16003NS0			
1800			S6-18003PS0	S6-18003NS0	4P DS-LA41	4P DS-LI41	4P DS-LR41
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



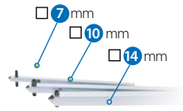
Amp.	Size	Connection	2P	3P	3P+N *(1)	Manual handle		
						External *(2)	Direct	Emergency external *(2)
			Code	Code	Code	Code	Code	Code
200	1		S6-02002PS0	S6-02003PS0	S6-02003NS0	DS-SA11	DS-SI11	DS-SR11
250			S6-02502PS0	S6-02503PS0	S6-02503NS0			
315			S6-03152PS0	S6-03153PS0	S6-03153NS0			
400			S6-04002PD0	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.

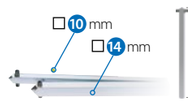
*(1) Neutral pole early make & late break - 4P versions with "simultaneous contacts" are also available (please, consult).
*(2) Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (with the use of a tool). Door interlocked by a padlock in OFF 0 position.
*(3) Slide 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) Type 1 & 2 L	Shaft extensions *(4) Type 1 & 2 Code *(e1)	Auxiliary contacts *(5) 1NO+1NC	Auxiliary contacts *(5) 2NO+2NC	DIN rail mounting Code (2 units)	Safety key lock device *(6) Simple	Safety key lock device *(6) Double	Terminal protection *(7)	Phase barriers 1 unit	Phase barriers 2 units	Phase barriers 3 units	Terminal shrouds *(7) (3P - 1 unit | 4P -2 units) Up 3P	Terminal shrouds *(7) (3P - 1 unit | 4P -2 units) Down 3P	Terminal shrouds *(7) (3P - 1 unit | 4P -2 units) Up or Down 4P	Terminal shrouds *(7) (2 units)
							Code *(e1)	Code *(e1)								
				Code	Code				Code	Code	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	DS-CAB1	DS-CEB1	DS-CU01	-	-	-	-	-	-	-
						-							DS-CU02	DS-CU03	DS-CU04	
						DS-DN01							-	-	-	
		387	DS-EP05			-							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	-	-	-	-	-	-	-	-

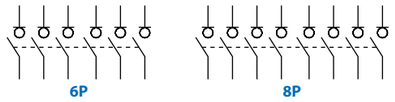
*(P2) The bridging links must be assembled to the switch in order to comply with the operation and electrical features. Please, consult for more information.

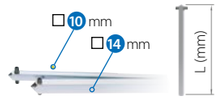


Shaft extensions *(4)			Auxiliary contacts *(5)		Safety key lock device *(6)		Spacers	Phase barriers			Terminal shrouds *(7)		
□	Type 1 & 2 L	Type 1 & 2 Code *(e1)	1NO+1NC	2NO+2NC	Simple	Double	(4 units)	(1 unit)	(2 units)	(3 units)	■	■	■
			Code	Code	Code *(e1)	Code *(e1)	Code	Code	Code	Code	Code	Code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

*(5) 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.
*(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.

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





MOTORIZED HANDLE AVAILABLE - KIT UM - SEE PAGES 18-19

S5M

S6N

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	**DS-EP14**
315			**S6N03156PS0**	**S6N03158PS0**						
400			**S6N04006PD0**	**S6N04008PD0**					536	**DS-EP15**
500			**S6N05006PD0**	**S6N05008PD0**						
630	2 (S6N)		**S6N06306PS0**	**S6N06308PS0**	**DS-LA21**	**DS-LI21**	**DS-LR21**	14	345	**DS-EP23**
800			**S6N08006PD0**	**S6N08008PD0**					535	**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.

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	Down	Up or Down	Only switches
								6P	6P	8P	
	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**	-	-	-	-

*(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 – 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.

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

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

According to:

IEC 60947-3 | IEC 61439-2 | RoHS

Direct or external

In blue colour

Base mounting

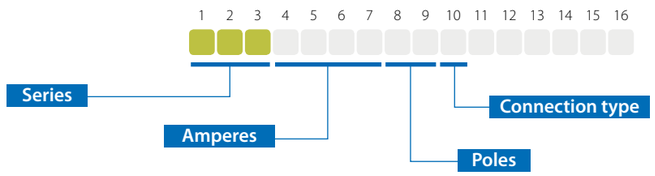
With screws

Possibility of incorporate

Different devices and accessories

Preventive security in all these series

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



1 2 3 4 5
C E C

CEC series

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

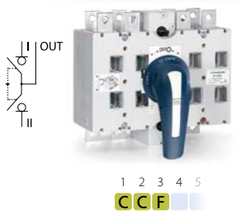
Common output form the up (captive nut allows for a one-handed wire installation process).
Flexible mounting.

1 2 3 4 5
S 5 F

S5F series

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

Back to back arrangement.

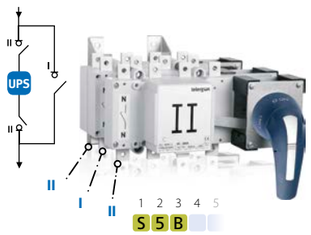


1 2 3 4 5
C C F

CCF series

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

Visible cut-off.
Common output from the front.



1 2 3 4 5
S 5 B

S5B series

Bypass changeover.
3P & 3P+N.

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

1 2 3 4 5
U M - C

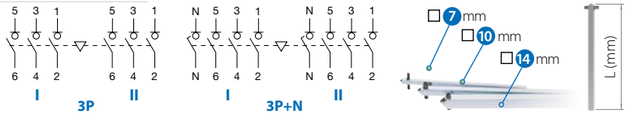
UM-C series

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.

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



MOTORIZED HANDLE AVAILABLE - SEE PAGES 24-25

CEC

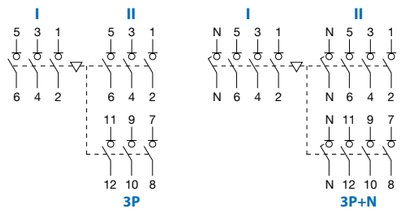
S5F

CCF

Amp.	Size	Connection	Series	3P	3P+N *(1)	Manual handle External *(3)	Manual handle Direct	Shaft extensions *(4) □	Shaft extensions Type 1 & 2 L	Shaft extensions Type 1 & 2 Code *(e1)
				Code	Code	Code	Code			
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			CEC	CEC01253PS0	CEC01253NS0					
125	0		S5F	S5F01253PS0	S5F01253NS0	D5LLA01	D5LSI01	7	250	DS-EP04
160			S5F	S5F01603PS0	S5F01603NS0				387	DS-EP05
200			S5F	S5F02003PS0	S5F02003NS0					
200	1		CCF	CCF02003PS0	CCF02003NS0	DCCLA11	DCCLI11	10	375	DS-EP14
250			CCF	CCF02503PS0	CCF02503NS0				536	DS-EP15
315			CCF	CCF03153PS0	CCF03153NS0					
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					

Size	Auxiliary contacts *(6) 1NO+1NC	Auxiliary contacts *(6) 2NO+2NC	Safety *(7) key lock device Simple	Safety *(7) key lock device Double	Rear protective plate Code	Bridging links Code (4 units)	Terminal shrouds *(8) 3P input	Terminal shrouds *(8) 3P common output	Terminal shrouds *(8) 4P input position I & II	Terminal shrouds *(8) 4P common output	Terminal shrouds *(8) (1 unit) Up 3P	Terminal shrouds *(8) (1 unit) Down 3P	Terminal shrouds *(8) (1 unit) Up or Down 4P	Phase barrier *(8) Only changeover switches 3P	Phase barrier *(8) Only changeover switches 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	-	-	-	-	-	-	-	-	-	-	-

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



MOTORIZED HANDLE AVAILABLE - SEE PAGES 24-25

Amp.	Size	Connection	3P	3P+N *(1)	Manual handle External *(3)	Manual handle Direct
			Code	Code	Code	Code
125	0		S5B01253PS0	S5B01253NS0	D5LLA01	D5LSI02
160			S5B01603PS0	S5B01603NS0		
200			S5B02003PS0	S5B02003NS0		
250	1		S5B02503PR0	S5B02503NR0	D5LLA11	D5LLI12
315			S5B03153PR0	S5B03153NR0		
400			S5B04003PC0	S5B04003NC0		
500	2		S5B05003PR0	S5B05003NR0	D5LLA21	D5LLI22
630			S5B06303PR0	S5B06303NR0		
800	3		S5B08003PR0	S5B08003NR0	D5LLA31	D5LLI32
1000			S5B10003PC0	S5B10003NC0		
1250	4		S5B12503PS0	S5B12503NS0		
1600			S5B16003PS0	S5B16003NS0		
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) 1NO+1NC	Auxiliary contacts *(6) 2NO+2NC	Safety key lock device Simple	Safety key lock device Double	Terminal *(8) protection Code	Terminal shrouds *(8) (2 units) Only changeover switches	Terminal shrouds *(8) (1 unit) Up 3P	Terminal shrouds *(8) (1 unit) Down 3P	Terminal shrouds *(8) (1 unit) Up or Down 4P
	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.

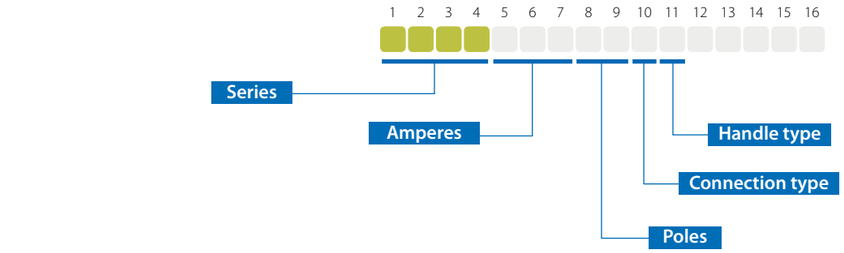
Motorized switch-disconnectors & changeover

Testing and approvals: CE IEC

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

According to:

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



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

*(1) Consult for DC values, please.

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

For switch-disconnectors:

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

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-1000A

S5

UM

UM (MODBUS) MB

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

For Kit Motorized Units for Size 4 & 5, please consult.

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

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

S6

UM

Amp.	Size	Connection	2P	3P	3P+N *(1)	UM-S Motorized unit kit (O - I) *(2)
						230Vac *(3)
			Code	Code	Code	Code
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	2		**S6-05002PSC**	**S6-05003PSC**	**S6-05003NSC**	**UM-S2A230Z**
630			**S6-06302PSC**	**S6-06303PSC**	**S6-06303NSC**	
800			**S6-08002PDC**	**S6-08003PDC**	**S6-08003NDC**	

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

S6N

S5M

UM

UM (MODBUS) MB

Amp.	Size	Connection	6P	8P	UM-S Motorized unit kit (O - I) *(2)	
					120Vac *(3)	230Vac *(3)
			Code	Code	Code	Code
250	1 (S6N)		**S6N02506PSC**	**S6N02508PSC**	-	**UM-S2A230Z**
315			**S6N03156PSC**	**S6N03158PSC**		
400			**S6N04006PDC**	**S6N04008PDC**		
500			**S6N05006PDC**	**S6N05008PDC**		
630	2 (S6N)		**S6N06306PSC**	**S6N06308PSC**	MB **UM-S26120M**	MB **UM-S26230M**
800			**S6N08006PDC**	**S6N08008PDC**	MB **UM-S35120M**	MB **UM-S35230M**
1000	3 (S5M)		**S5M10006PCC**	**S5M10008PDC**		

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

UM + **S6N** normal mounting
UM + **S5M** size 3 normal mounting

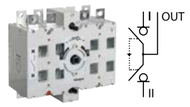
UM + **S5M** size 3 inverted mounting (please consult UM codes)

*(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



CCF

UM

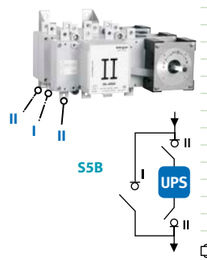
UM (MODBUS) MB

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
125	0		S5F	**S5F01253PS0**	**S5F01253NS0**	-	**UM-C0A230Z**
160			S5F	**S5F01603PS0**	**S5F01603NS0**		
200			S5F	**S5F02003PS0**	**S5F02003NS0**		
200	1		CCF	**CCF02003PS0**	**CCF02003NS0**	-	**UM-C1A230Z**
250			CCF	**CCF02503PS0**	**CCF02503NS0**		
315			CCF	**CCF03153PS0**	**CCF03153NS0**		
400			CCF	**CCF04003PS0**	**CCF04003NS0**		
500	2		CCF	**CCF05003PS0**	**CCF05003NS0**	MB **UM-C21120M**	**UM-C2A230Z**
630			CCF	**CCF06303PS0**	**CCF06303NS0**		MB **UM-C21230M**
800			CCF	**CCF08003PS0**	**CCF08003NS0**		
1000	3		CCF	**CCF10003PS0**	**CCF10003NS0**	MB **UM-C31120M**	MB **UM-C31230M**
1250			CCF	**CCF12503PS0**	**CCF12503NS0**		
1600	4		S5F	**S5F16003PS0**	**S5F16003NS0**	MB **UM-C45120M**	MB **UM-C45230M**
1800			S5F	**S5F18003PS0**	**S5F18003NS0**		
2000			S5F	**S5F20003PD0**	**S5F20003ND0**		
2500	5		S5F	**S5F25003PP0**	**S5F25003NP0**	-	MB **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

UM

UM (MODBUS) MB

Amp.	Size	Connection	3P	3P+N *(4)	UM-C Motorized unit kit (I - O - II) *(6)	
					120Vac *(8)	230Vac *(8)
			Code	Code	Code	Code
125	0		**S5B01253PS0**	**S5B01253NS0**	-	**UM-C0A230Z**
160			**S5B01603PS0**	**S5B01603NS0**		
200			**S5B02003PS0**	**S5B02003NS0**		
250	1		**S5B02503PRC**	**S5B02503NRC**	-	MB **UMC14230Z**
315			**S5B03153PRC**	**S5B03153NRC**		
400			**S5B04003PCC**	**S5B04003NCC**		
500	2		**S5B05003PRC**	**S5B05003NRC**	MB **UM-C24120M**	MB **UM-C24230M**
630			**S5B06303PRC**	**S5B06303NRC**		
800	3		**S5B08003PRC**	**S5B08003NRC**	MB **UM-C34120M**	MB **UM-C34230M**
1000			**S5B10003PCC**	**S5B10003NCC**		
1250	4		**S5B12503PS0**	**S5B12503NS0**	-	MB **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

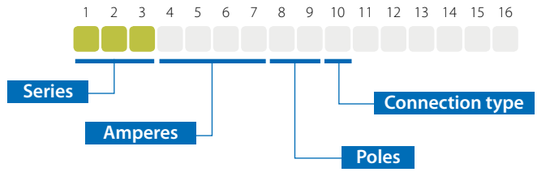
UM + **S5B** sizes 2 - 3 - 4 inverted mounting (please consult **UM** codes)

*(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
C I S

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
C T R

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
C T R

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.

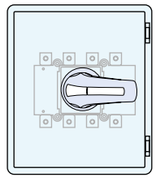
Back to back model.

Protection rating IP54.

Power section protected against accidental contacts.

Manual handle included (for emergency operation or maintenance).

CIS25C SERIES | ENCLOSED SWITCH-DISCONNECTORS

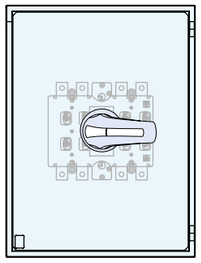


Size	Amp.	3P	3P+N *(2)
		Code	Code
00	40	**CIS25C00403PB**	**CIS25C00403NB**
	63	**CIS25C00633PB**	**CIS25C00633NB**
	80	**CIS25C00803PB**	**CIS25C00803NB**
0	125	**CIS25C01253PB**	**CIS25C01253NB**
	160	**CIS25C01603PB**	**CIS25C01603NB**
	200	**CIS25C02003PS**	**CIS25C02003NS**
1	250	**CIS25C02503PR**	**CIS25C02503NR**
	315	**CIS25C03153PR**	**CIS25C03153NR**
	400	**CIS25C04003PC**	**CIS25C04003NC**
2	630	**CIS25C06303PR**	**CIS25C06303NR**
3	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

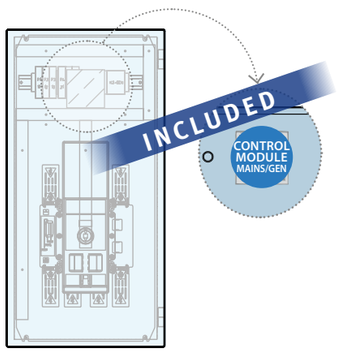


Size	Amp.	3P	3P+N *(2)
		Code	Code
00	63	**CTR2EC00633PS**	**CTR2EC00633NS**
	80	**CTR2EC00803PS**	**CTR2EC00803NS**
	100	**CTR2EC01003PS**	**CTR2EC01003NS**
	125	**CTR2EC01253PS**	**CTR2EC01253NS**
0	160	**CTR2FC01603PS**	**CTR2FC01603NS**
	200	**CTR2FC02003PS**	**CTR2FC02003NS**
1	250	**CTR2CC02503PS**	**CTR2CC02503NS**
	315	**CTR2CC03153PS**	**CTR2CC03153NS**
	400	**CTR2CC04003PS**	**CTR2CC04003NS**
2	500	**CTR2CC05003PS**	**CTR2CC05003NS**
	630	**CTR2CC06303PS**	**CTR2CC06303NS**
	800	**CTR2CC08003PS**	**CTR2CC08003NS**
3	1000	**CTR2CC10003PS**	**CTR2CC10003NS**
	1250	**CTR2CC12503PS**	**CTR2CC12503NS**
4	1600	**CTR2FC16003PS**	**CTR2FC16003NS**
	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 CHANGEOVER SWITCHES WITH MOTORIZED UNIT AND CONTROL MODULE



Amp.	3P+N *(1)
	Code
125	**CTRCFC01253NSBJ**
200	**CTRCFC02003NSBJ**
250	**CTRCCC02503NSBJ**
400	**CTRCCC04003NSBK**
630	**CTRCCC06303NSBK**
1000	**CTRCCC10003NSBK**
1250	**CTRCCC12503NSBK**
1600	**CTRCFC16003NSBK**
2000	**CTRCFC20003NDBK**

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

Switch fuses

Testing and approvals:

Our two switch-disconnectors with fuses 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 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.

According to:

IEC 60947-3 | IEC 61439-2 | UL98* | RoHS

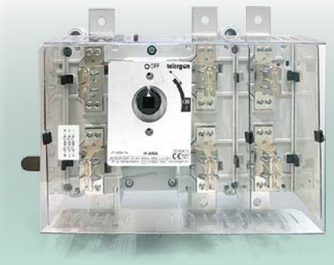
* under request

Different handles

Depending on the installation mode (panel or direct)

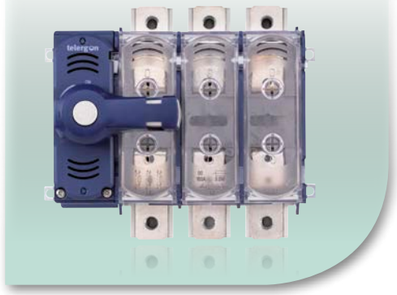
Extreme safety

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



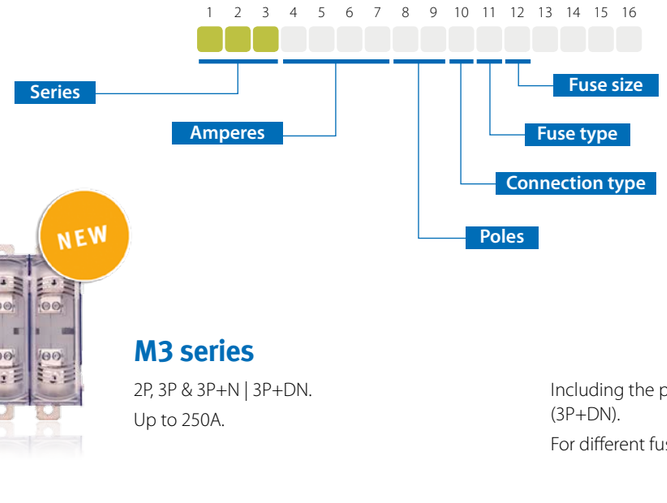
M3 series

New fully modular range with compact design



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

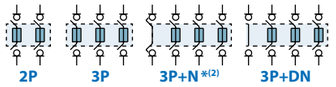
Protection rating IP65.

External padlockable handle with locking door in ON 1 position.

Removing door blocked by padlock when handle is in OFF 0 position.

Switch fuses

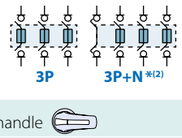
M3 SERIES | SWITCH-FUSES | 2P, 3P, 3P+N & 3P+DN | 32A-250A



Amp.	Fuse *(1)	Size	Connection	2P	3P	3P+N *(2)	3P+DN (detachable neutral)	Front operation: Direct handle	L	Front operation: Standard / Emergency — External handle *(3) (shaft included) ON-OFF	ON-OFF TEST
				Code	Code	Code	Code	Code		Code	Code
32	BS-A1-A2	00		M3-00322PBB10	M3-00323PBB10	M3-00323NBB10	M3-00323DBB10	DM3SIB1	177	DM3SAB2	DM3SAB1
50	14x51			M3-00502PBC20	M3-00503PBC20	M3-00503NBC20	M3-00503DBC20				
63	BS-A2-A3			M3-00632PBB20	M3-00633PBB20	M3-00633NBB20	M3-00633DBB20				
	NH000			M3-00632PBD20	M3-00633PBD20	M3-00633NBD20	M3-00633DBD20			DM3SRB2	DM3SRB1
80	BS-A3			M3-00802PBB30	M3-00803PBB30	M3-00803NBB30	M3-00803DBB30				
100	22x58			M3-01002PBC30	M3-01003PBC30	M3-01003NBC30	M3-01003DBC30				
	NH000			M3-01002PBD30	M3-01003PBD30	M3-01003NBD30	M3-01003DBD30				
125	BS-A3	0		M3-01252PTB30	M3-01253PTB30	M3-01253NTB30	M3-01253DTB30	DM3SIB1	177	DM3SAB2	DM3SAB1
	22x58			M3-01252PTC30	M3-01253PTC30	M3-01253NTC30	M3-01253DTC30				
	NH00			M3-01252PTD40	M3-01253PTD40	M3-01253NTD40	M3-01253DTD40			DM3SRB2	DM3SRB1
160	NH00			M3-01602PTD40	M3-01603PTD40	M3-01603NTD40	M3-01603DTD40				
160	BS-A4	1		M3-01602PSB50	M3-01603PSB50	M3-01603NSB50	M3-01603DSB50	DM3SI11	227	DM3SA12	DM3SA11
200	BS-B1-B2			M3-02002PSB60	M3-02003PSB60	M3-02003NSB60	M3-02003DSB60				
250	NH1, 0, 0S			M3-02502PSD50	M3-02503PSD50	M3-02503NSD50	M3-02503DSD50			DM3SR12	DM3SR11
	BS-B3			M3-02502PSB80	M3-02503PSB80	M3-02503NSB80	M3-02503DSB80				

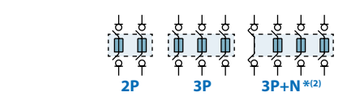
* For UL references, please consult.

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	CIF23C01002PBD3	CIF23C01003PBD3	CIF23C01003NBD3
125	NH00	0		M3	CIF23C01252PTD4	CIF23C01253PTD4	CIF23C01253NTD4
250	NH1	1		M3	CIF23C02502PSD5	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.

*(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	Side operation: Direct handle *(4)	L	Standard / Emergency — External handle *(3) (shaft included)	ON-OFF	ON-OFF TEST	Auxiliary contacts *(5) (1 unit)	Shaft extensions: L	Shaft extensions	Safety key lock device *(6): Simple	Double	Phase barriers *(7) P	Terminal shrouds *(8)
	Code			Code	Code	Code		Code	Code	Code		Code
00	DM3SSB1	177		DM3SBB2	DM3SBB1	DM3AUB1	250	DS-EP04	DS-CAB1	DS-CEB1	-	-
				DM3SEB2	DM3SEB1		387	DS-EP05				
0	DM3SSB1	177		DM3SBB2	DM3SBB1	DM3AUB1	250	DS-EP04	DS-CAB1	DS-CEB1	2P	DM3SF01 / DM3CU01
				DM3SEB2	DM3SEB1		387	DS-EP05			3P	DM3SF02 / DM3CU02
											4P	DM3SF03 / DM3CU03
1	DM3SS11	227		DM3SB12	DM3SB11	DM3AUB1	375	DS-EP14	DS-CA11	DS-CE11	2P	DM3SF11 / DM3CU11
				DM3SE12	DM3SE11		536	DS-EP15			3P	DM3SF12 / DM3CU12
											4P	DM3SF13 / DM3CU13

Size	Shaft extensions *(4): □	Type 1: L	Type 1: Code *(e1)	Auxiliary contacts *(5): 1NO+1NC	2NO+2NC	Safety key lock device *(6): Simple	Double	Rear protective plate: 160-200A	250A	Terminal shrouds *(7): 3P input	3P output	4P input or output
			Code	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		DM2CU31	DM2CU32	DM2CU33

Size	Auxiliary contacts *(5): 1NO+1NC	2NO+2NC	Safety key lock device *(6): Simple	Double	Terminal shrouds *(7): 3P input	3P output	4P input or output
	Code	Code	Code *(e1)	Code *(e1)	Code	Code	Code
00	DM3AUB1	-	DS-CAB1	DS-CEB1	-	-	-
0	DM3AUB1	-	DS-CAB1	DS-CEB1	-	DM3CU02	DM3CU03
1	DM3AUB1	-	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

*(5) 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.

*(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.

*(8) With the direct side handle code, the auxiliary contacts holder is included

*(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.

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

According to:

IEC 60947-1&3 | UL508i* | UL98B* | RoHS

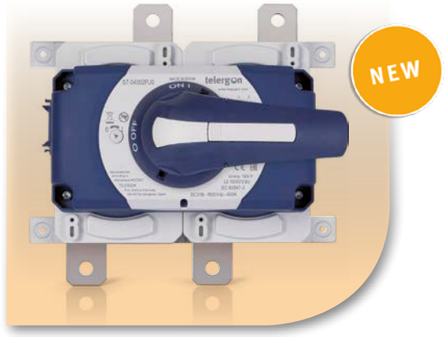
* under request

Ergonomic handle

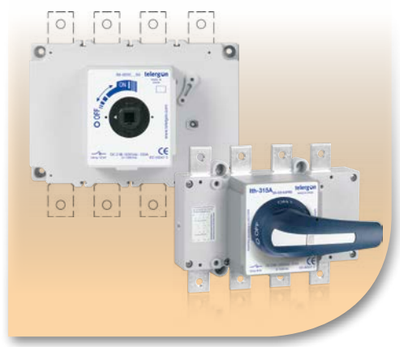
with specific identification
for the isolation only models

S7 series

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

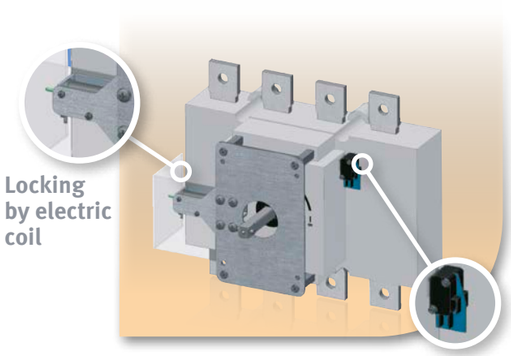


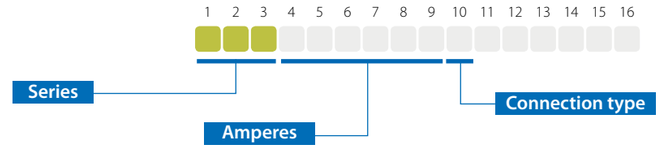
Diverse sizes & models



Safety devices

Quick and easy installation





ZFC & ZFV series

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

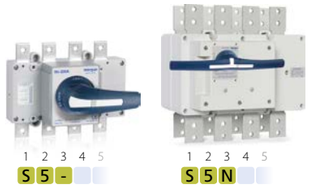
Base mounting by screws or DIN rail.
Non polarized.

S6 DC series

Ue MAX 1000 Vdc Ie MAX 630 A DC 21B.
1P & 2P.

Different configurations input/output.
Non polarized.

1000 V DC



S5 & S5N DC series

Ue MAX 1000 Vdc Ie 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.

1000 V DC

NEW

S7 DC series

Ue MAX 1500 Vdc Ie MAX 500 A DC 21B pure 2P.
Maximized electrical performance.

Easy to install and maintain.

1500 V DC

S5M series

Ue MAX 1500 Vdc Ie MAX 1800A DC 21B.
4P+4P.

Back to back with operating mechanism in side.

1500 V DC

1000 V DC

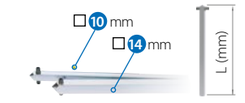
DC switch-disconnectors

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

	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	Diagram *(2)	Manual handle	
						External*(1)	Direct
	Ue				Code	Code	Code
1P 2P *(2)	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.

*(2) 1M 1Q 1S 1U 1V 1W 2L



Size	Shaft extensions *(3)				Auxiliary contacts *(5)		Safety key lock device *(6)		Spacers (4 units)	Terminal lug (2 units)	Terminal shrouds (1 unit) *(4)			Phase barriers		
		Type 1 & 2			1NO+1NC	2NO+2NC	Simple	Double								
		L	Code *(e1)		Code	Code	Code *(e1)	Code *(e1)	Code	Code	Code	Code	Code	1 unit Code	2 units Code	3 units Code
1	10	375	**DS-EP14**		**D5LAU01**	**D5LAU02**	**DS-CA11**	**DS-CE11**	**DR-EL11**	-	**DR-CU11**	**DR-CU12**	**DR-CU13**	**DR-SF11**	**DR-SF12**	**DR-SF13**
		536	**DS-EP15**													
2	14	345	**DS-EP23**		**D5LAU01**	**D5LAU02**	**DS-CB21**	**DS-CF21**	**DR-EL21**	-	**DR-CU21**	**DR-CU22**	**DR-CU23**	**DR-SF21**	**DR-SF22**	**DR-SF23**
		535	**DS-EP24**													
1	10	375	**DS-EP14**		**D5LAU01**	**D5LAU02**	-	-	**DR-EL11**	**DR-TL11**	**DR-CU11**	**DR-CU12**	**DR-CU13**	**DR-SF11**	**DR-SF12**	**DR-SF13**
		536	**DS-EP15**													
2	14	345	**DS-EP23**		**D5LAU01**	**D5LAU02**	-	-	**DR-EL21**	**DR-TL22**	**DR-CU21**	**DR-CU22**	**DR-CU23**	**DR-SF21**	**DR-SF22**	**DR-SF23**
		535	**DS-EP24**													

*(2) 2A 2B 2C 2D 2E 2F

*(2) 2G 2H 2J 2K 2X 2Y

KIT UM MOTORIZED HANDLE AVAILABLE - SEE PAGES 24-25

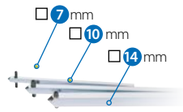
S5 & S5N SERIES | SWITCHES | 4P | 850A-3150A

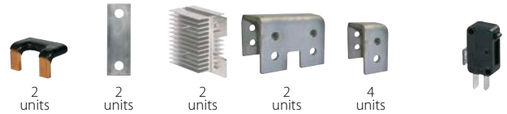
4P *(p1)

S5 DC

S5N DC

	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	4 pole (4P) *(p1)	Manual handle	
						External*(1)	Direct
	Ue				Code	Code	Code
4P *(p1)	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**		
4P + 4P *(p1)		2000	5 (S5N)		**S5N20002ES0**	**DS-LA41**	**DS-LI41**
		2500			**S5N25002ES0**	**DS-LA41**	**DS-LI41**
		3150			**S5N31502ES0**	**DS-LA41**	**DS-LI41**





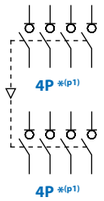
Size	Shaft extensions *(3)			Bridging links *(p1)		Auxiliary contacts *(5)		Terminal protection		Terminal shrouds (2 units) *(4)
		Type 1 & 2				1NO+1NC	2NO+2NC			
		L	Code *(e1)		Code	Code	Code	Connection	Code	Code
3	14	345	**DS-EP23**		**DS-PI31**	**D5LAU01**	**D5LAU02**	-	-	**DS-CU30**
		535	**DS-EP24**		**DS-PI3D**					**DS-CU31**
										DS-CU38
										DS-CU39
4	14	485	**DS-EP44**		**DS-PI41** (S5-18004PS0)	**D5LAU01**	**D5LAU02**	-	-	**DS-CU40**
		635	**DS-EP45**		**DS-PI4D** (S5-18002ES0 - S5-20002ED0)					**DS-CU41**
										DS-CU48
										DS-CU49
5 (S5N)	-	-	-		**DS-PI51 + D5LPC45**	**D5LAU01**	**D5LAU02**	-	-	-
		-	-		**DS-PI51 + D5LPC45**					
					DS-PI4D + D5LPC45 (x2)					

DC switch-disconnectors

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

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

* References only UL.
* For side operation, please consult.



MOTORIZED HANDLE AVAILABLE KIT UM PLEASE CONSULT

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

S5M DC

S5N DC

	Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	4P + 4P *(p1) Code	Manual handle External *(1) Code	Manual handle Direct Code
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

	Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	Code
2P	1500 V DC21B	16	00 (ZFC)		**ZFC16SMAH1NA4O**
		25			**ZFC25SMAH1NA4O**
	1500 V DC21B / DC-PV1	32	00 (ZFV)		**ZFV32SMAH1A4O**
		40			**ZFV40SMAH1A4O**
		55			**ZFV55SMAH1A4O**

*(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.

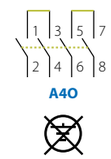
Size	Manual handle External*(1) Code	Manual handle Direct Code	Auxiliary contacts *(5) 1NO+1NC Code	Auxiliary contacts *(5) 2NO+2NC Code	Captive Nut Code *(e2)	Spacer Fixing Brackets 2 units Code
1	**DS-SA11**	**DS-SI11**	**DM-AU11**	**DM-AU12**	-	**DM-EL11**
					DM-PT11	
					DM-PT12	
					-	
				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

3 units | 2 units | 2 units | 4 units | 2 units

Size	Bridging links *(p1) Code	Auxiliary contacts *(2) 1NO+1NC Code	Auxiliary contacts *(2) 2NO+2NC 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		

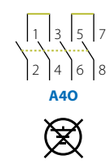
ZFC & ZFV DC SERIES | SWITCHES | 2P | 16A-55A

	Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	Code
2P	1500V DC21B	16	00		**ZFC16VZVH4A4O**
		25			**ZFC25VZVH4A4O**
		32			**ZFV32VZVH4A4O**
		40			**ZFV40VZVH4A4O**
		55			**ZFV55VZVH4A4O**



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

	Rated operational voltage Ue	Rated operational current Ie (A)	Size	Connection	Code
2P	1000V DC21B	16	00		**ZFC16PFLH4A4O**
		32			**ZFV32PFLH4A4O**
		55			**ZFV55PFLH4A4O**



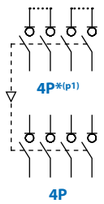
*(2) To be used as signaling or control contacts – Ie = 16A (resistive loads) 4A (inductive loads) at 250 Vac.
Whilst closing, it closes after the main contacts. Whilst opening, it opens before the main contacts.
*(3) Padlockable handle in OFF 0 position. Possibility of unlocking the door in ON I position (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:

According to:
IEC 60947-3 | RoHS

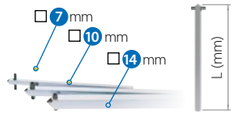
S5F AC/DC SERIES | CHANGEOVER SWITCHES BASE MOUNTING | 4P + 4P | 160A-500A



S5F

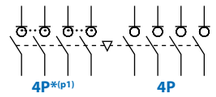
UM

	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	Code	Code
4P + 4P	50 A/800V	160	0		**S5F01604PS0PA4**	**D5LLA01**	**D5LSI01**	**UM-C0A230Z**
	160 A/1000V	200	1		**S5F02004PR0PA4**	**D5LLA11**	**D5LLI12**	**UM-C15230Z**
	250 A/1000V	315			**S5F03154PR0PA4**	**D5LLA11**	**D5LLI12**	**UM-C15230Z**
	400 A/1000V	400			**S5F04004PC0PA4**	**D5LLA11**	**D5LLI12**	**UM-C15230Z**
	500 A/1000V	630	2		**S5F06304PR0PA4**	**D5LLA21**	**D5LLI22**	**UM-C25230M**

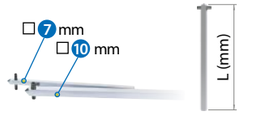


Size	Shaft extensions *(2)			Auxiliary contacts *(3)		Bridging links *(p1)	
	□	Type 1 & 2		1NO+1NC	2NO+2NC	Connection	2 units
		L	Code *(e1)	Code	Code	Code	Code
0	7	250	**DS-EP04**	**DS-AU11**	**DS-AU12**		**DS-PI01**
1	10	375	**DS-EP14**	**DS-AU11**	**DS-AU12**		**DS-PI11**
							DS-PI11
							DS-PI14
2	14	345	**DS-EP23**	**DS-AU11**	**DS-AU12**		**DS-PI21**

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



	Rated operational voltage		Size	Connection	4P + 4P *(p1)	Manual handle	
	DC	AC				External *(1)	Direct
	DC21B	Amp			Code	Code	Code
4P + 4P	50 A/800V	160	0		**S5L01604PB0PA4**	**D5LLA01**	**D5LSI01**
	160 A/1000V	200	1		**S5L02004PR0PA4**	**D5LLA11**	**D5LLI12**
	250 A/1000V	315			**S5L03154PR0PA4**	**D5LLA11**	**D5LLI12**



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
0	7	250	**DS-EP04**	**D5LAU01**	**D5LAU02**		**DS-PI05**
1	10	375	**DS-EP14**	**D5LAU01**	**D5LAU02**		**DS-PI11**

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

ZFC

	Rated operational voltage		Size	Connection	Code
	DC	AC			
	DC21B	Amp			
	38 A/1000V	45	00		**ZFC38SMAH1NU4DC**

*(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.

DC | DC CHANGEOVER SWITCHES

DC | DC

- 1000Vdc | S5F 160A up to 500A.
- 1000Vdc | S5L 160A up to 250A.
- 1500Vdc | 250A up 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:

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

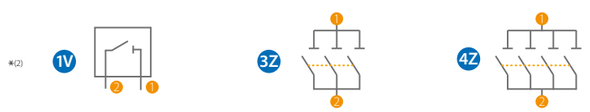
1P

S5 DC
ISOLATION ONLY

S6 DC
ISOLATION ONLY

	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	Unipolar (1P) *(p1)		Manual handle ISOLATION ONLY	
							External*(1)	Direct
	Ue				Code	Diagram	Code	Code
1P *(p1)	1500V DC20A	160	1		S6-01601VS0P38	1V	DS-SA11T	DS-SI11T
		200			S6-02001VS0P38	1V		
		250			S6-02501VS0P38	1V		
		400			S6-04001VD0P38	1V		
		800	1		S5-04003ZC0P38	3Z	DS-SA11T	DS-SI11T
		1000			S5-04004ZC0P38	4Z		
		630	2		S6-06301VS0P38	1V	DS-LA21T	DS-LI21T
		1600			S5-08004ZC0P38	4Z		
		2000	3		S5-12504ZC0P38	4Z	DS-LA31T	DS-LI31T

*(2)



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		Code	Code	Code	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	D5LAU01	D5LAU02	-	-	-	DS-CU12	-
		536	DS-EP15	DS-PI1H							
2	14	345	DS-EP23	-	D5LAU01	D5LAU02	DR-SF21	DR-SF22	DR-EL21	-	DR-CU21
		535	DS-EP24	DS-PI2H	D5LAU01	D5LAU02	-	-	-	DS-CU22	-
3	14	345	DS-EP23	DS-PI3H	D5LAU01	D5LAU02	-	-	-	-	-
		535	DS-EP24								

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

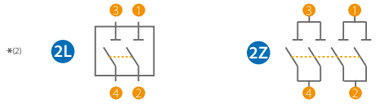
2P

S5 DC
ISOLATION ONLY

S6 DC
ISOLATION ONLY

	Rated operational voltage	Rated operational current Ie (A)	Size	Connection	Bipolar (2P) *(p1)		Manual handle ISOLATION ONLY	
							External*(1)	Direct
	Ue				Code	Diagram	Code	Code
2P *(p1)	1500V DC20A	160	1		S6-01602LS0P38	2L	DS-SA11T	DS-SI11T
		200			S6-02002LS0P38	2L		
		250			S6-02502LS0P38	2L		
		400			S6-04002LD0P38	2L		
		630	2		S6-06302LS0P38	2L	DS-LA21T	DS-LI21T
		800			S6-08002LD0P38	2L		
		1600	3		S5-12504ZC0P38	2Z	DS-LA31T	DS-LI31T
		2500	4		S5-16004ZS0P38	2Z	DS-LA41T	DS-LI41T
		3150			S5-18004ZS0P38	2Z		

*(2)



*(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.

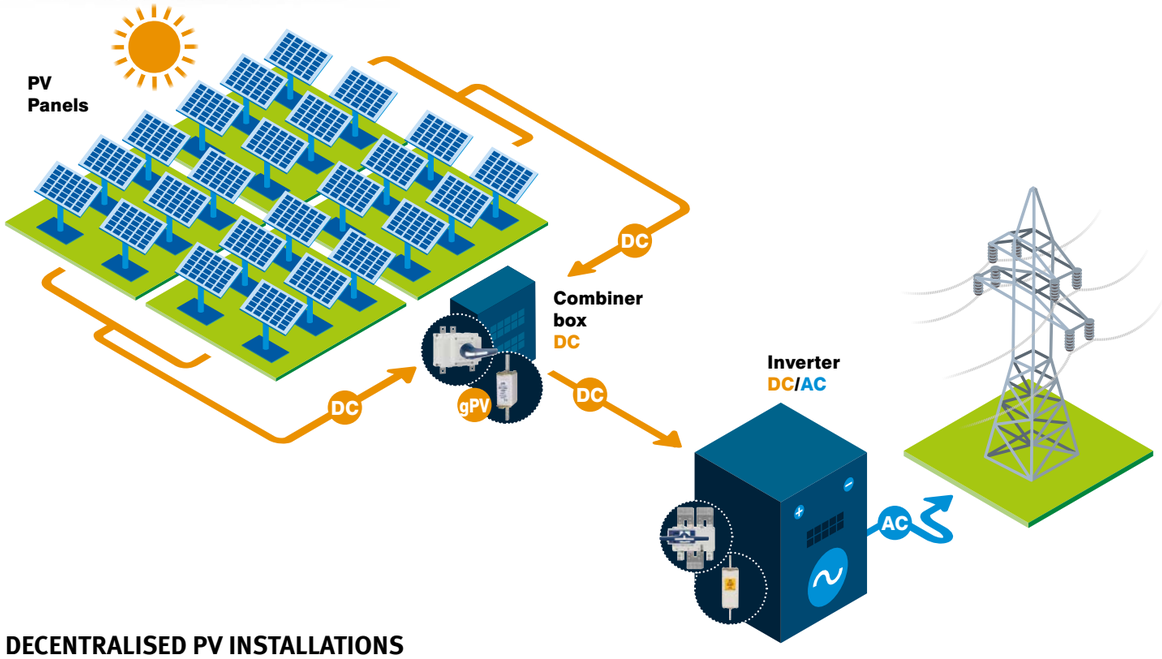
Please indicate in your order the switch code and the handle code, as these both products are managed separately.

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		Code	Code	Code	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-PI3L x 2	D5LAU01	D5LAU02	-	-	-	-
		535	DS-EP24							
4	14	485	DS-EP44	DS-PI4K x 2	D5LAU01	D5LAU02	-	-	-	-
		635	DS-EP45							

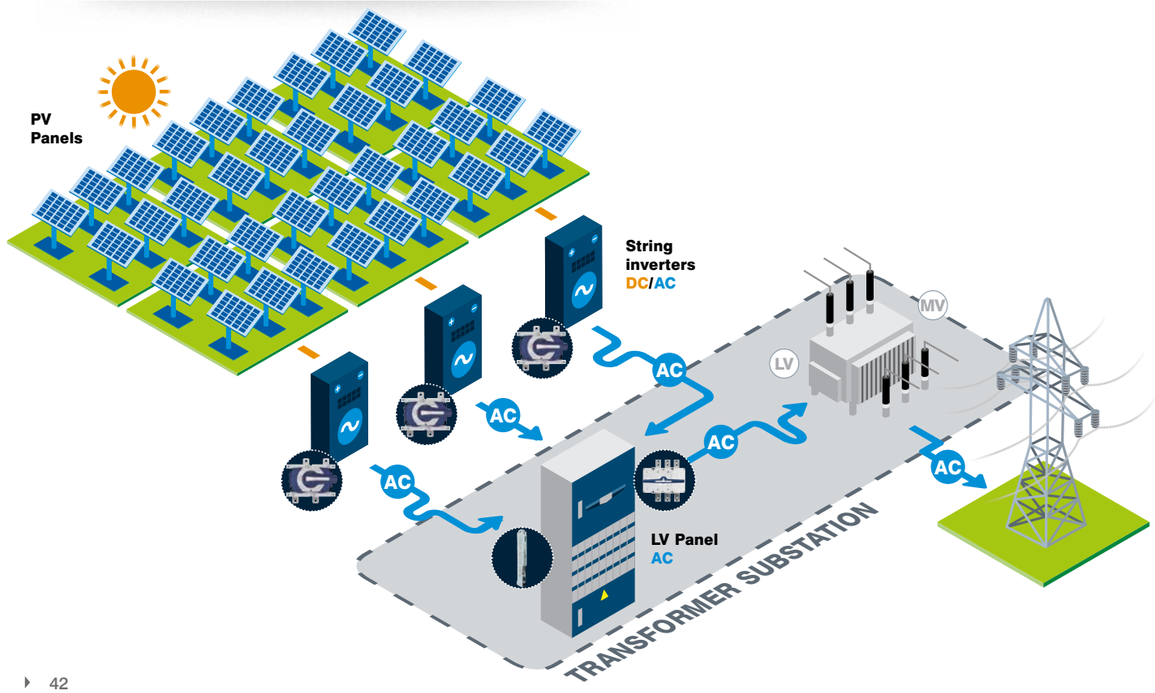
*(3) A standard shaft is included with the external handle.
*(4) To be used as signaling or control contacts - Ie = 16A (resistive loads) 4A (inductive loads) at 250 Vac. Whilst closing, it closes after the main contacts. Whilst opening, it opens before the main contacts.
*(5) One unit for input or output.

Green energy applications

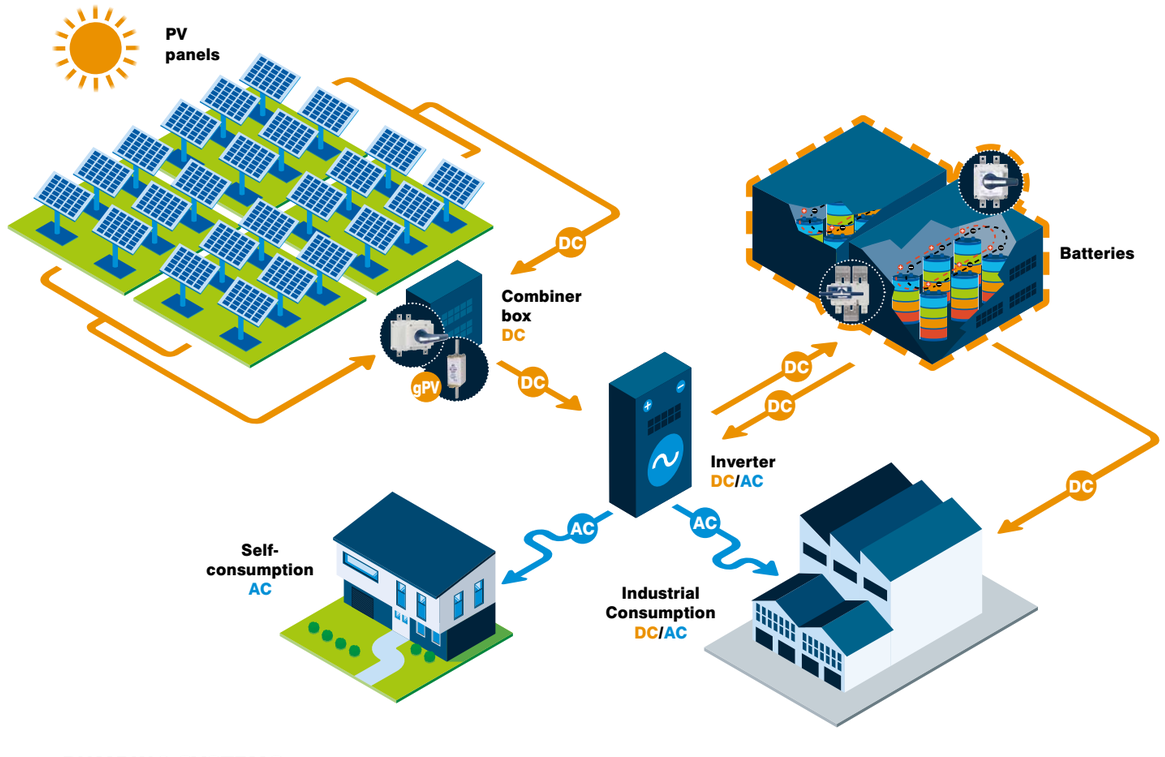
CENTRALISED PV INSTALLATIONS



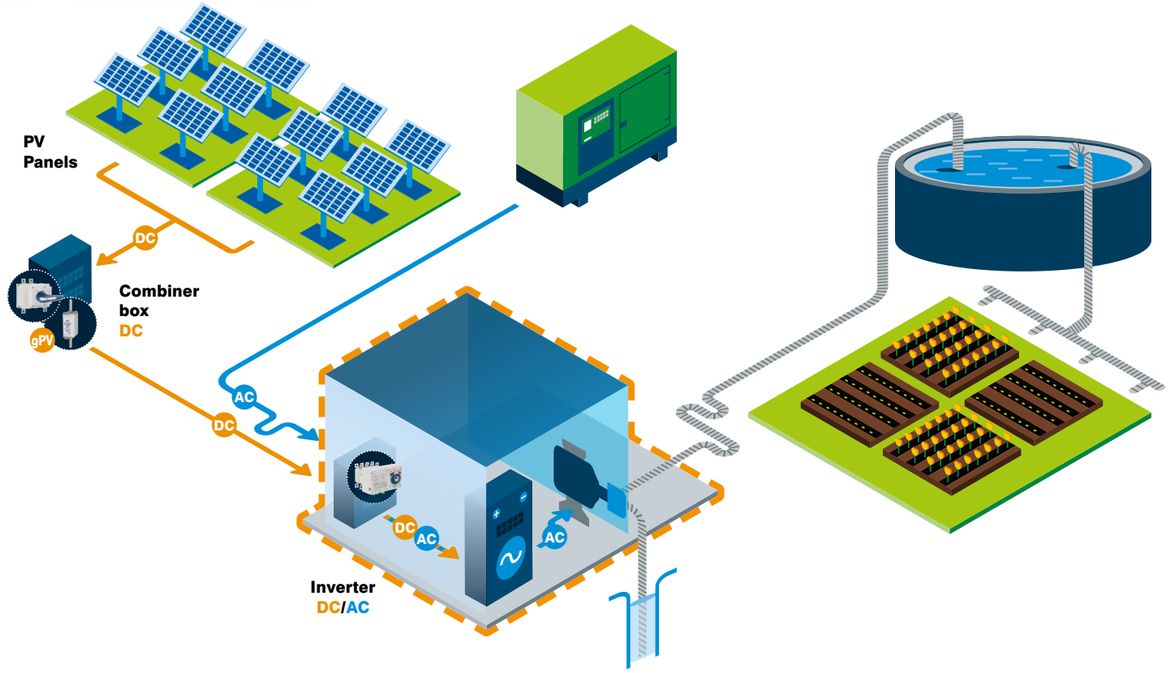
DECENTRALISED PV INSTALLATIONS



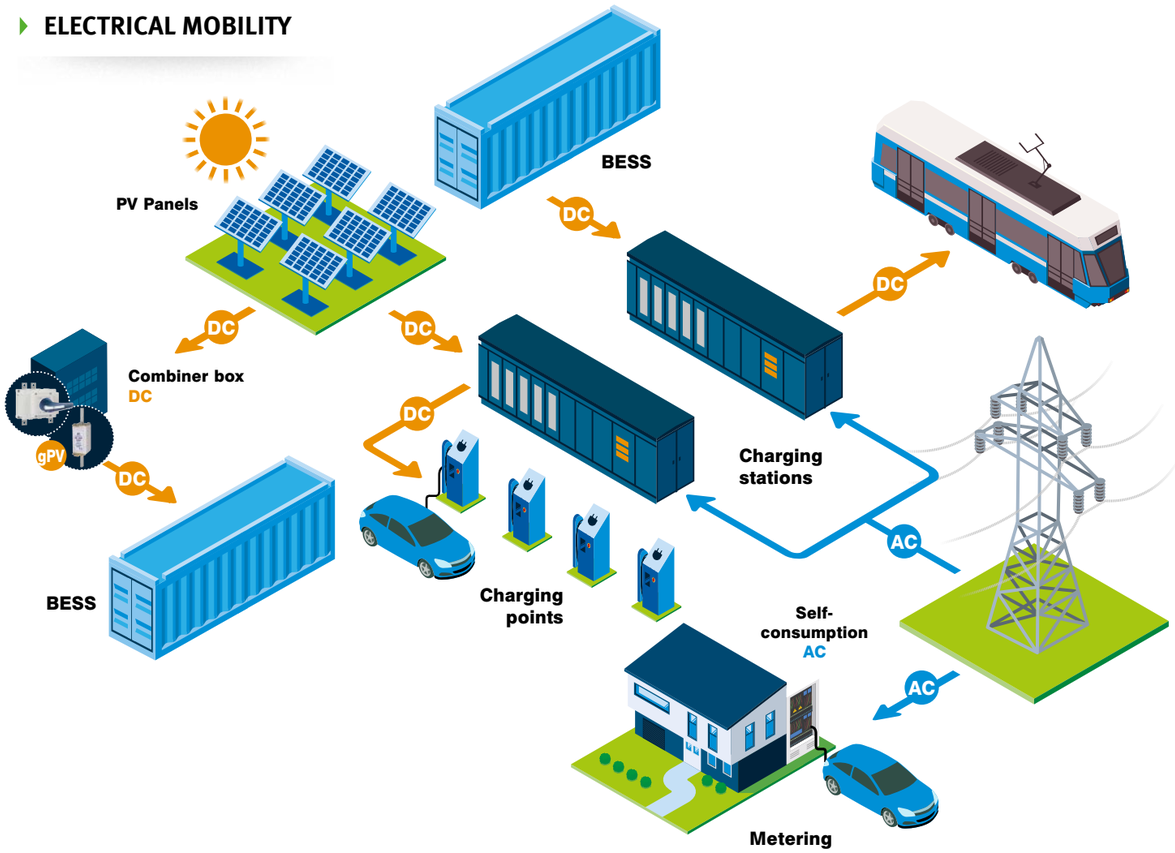
BATTERY ENERGY STORAGE SYSTEMS

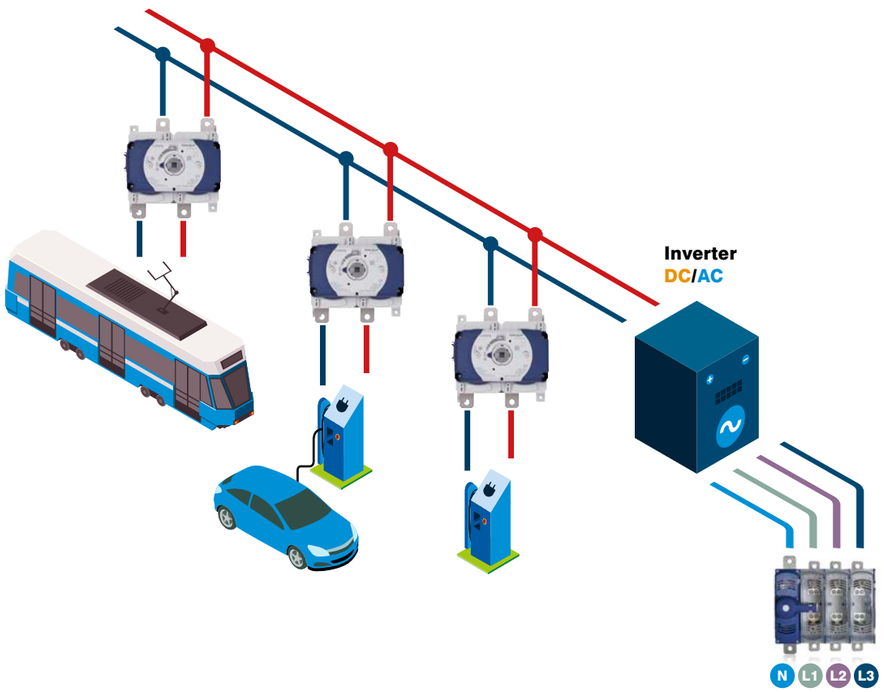


PUMPING SYSTEMS



ELECTRICAL MOBILITY





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.

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PEFC/14-38-00201

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TDM-GUIDE-ING-022022