A wide variety of applications

LOCO

High power range of products designed for applications up to 4kVDC, suitable to be used in single-voltage or multi-system locomotives.

EMU

Medium-high power range of products designed for applications up to 4kVDC , suitable to be used for on board applications on EMU trains.

METRO & LRV

Low – Medium power range of products designed for range from 600V to 2kVDC, suitable to be used for applications on Light Rail vehicles,Trolley buses, Tram, Monorail, Metro vehicles

INDUSTRY

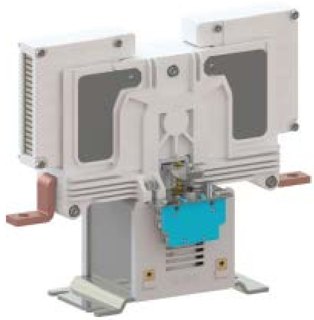
Iron and steel industries
Mining
Cranes
Induction furnaces

Hydroelectric power stations
Photovoltaic power plants
Power distribution
Energy storage

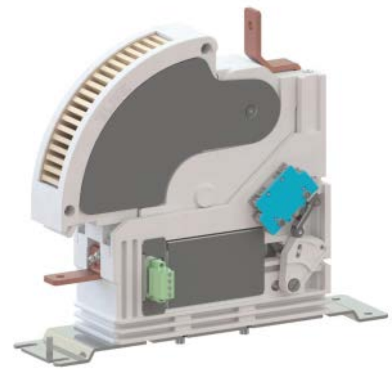
Railway substation
Lighting equipment
Pump stations.

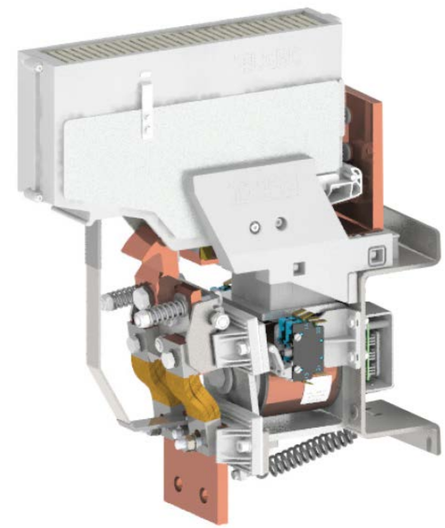
A wide products portfolio

Unidirectional Contactors

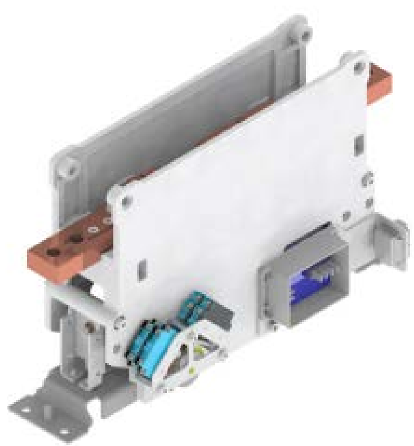


Bidirectional Contactors



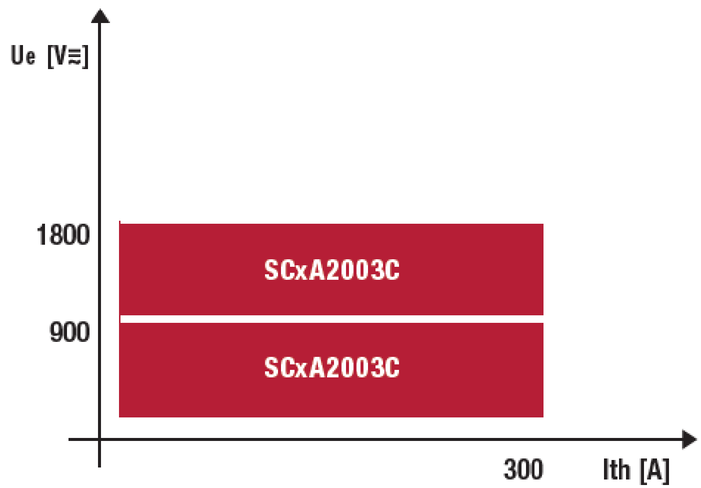


Off Load Disconnectors



High Speed Circuit Breakers

SC type : Light Duty Unidirectional Contactors



Voltage Levels

900 / 1800V

Pole configurations

NO - NC

Thermal Current

300 A per pole

Nr. of Poles

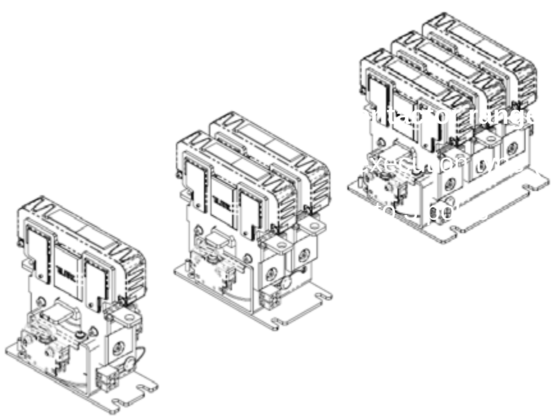
Up to 3 poles

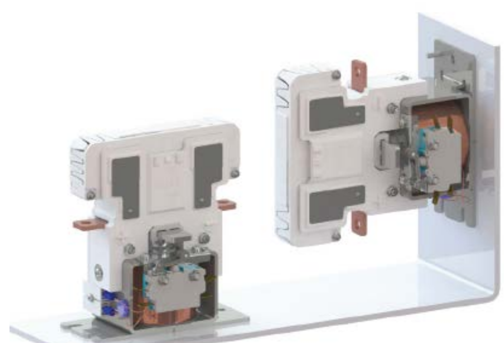
Installation

Floor mounted / Wall Mounted

Reliable Performances

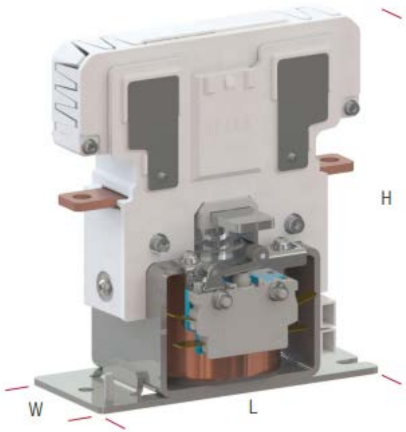
Unidirectional DC or AC application – NO critical currents





Pollution degree	PD3	IEC 60077
Overvoltage category	OV3	IEC 60077
Component category	C3	IEC 60077
Shock and vibration	Cat 1 / Class B	IEC 61373
Mechanical endurance	2M ops	
Max altitude w/o derating	2000 m asl	
Operational temperature	-40°C to +75°C	
Stocking temperature	-50°C to +85°C	

SC Serie



L mm	H mm	W per pole mm
140	157	86

Electrical Data

Rated operational voltage	Ue	900	1800	Vdc/ac
Rated insulation voltage	Ui	2300	2300	Vdc
Rated impulse withstand voltage	Uimp	25	25	kV
Conventional free air thermal current at 40°C (per pole)	Ith 40	300	300	A
Conventional free air thermal current at 75°C (per pole)	Ith 75	250	250	A
Rated operational current (per pole)	Ie	65	20	A
Rated short time withstand current (per pole)	Icw/t	4/5	4/5	kA/ms
Peak short time withstand current (per pole)	Icw	4	4	kA
Max breaking current DC t=15ms (per pole)	Ibc	130	25	A
Max breaking current AC cosq = 0,8 (per pole)	Ibc	250	60	A
Max making current DC t=15ms (per pole)	Imc	2500	2500	A
Max making current AC cosq= 0,8 (per pole)	Imc	2500	2500	A
Electrical endurance @Ue/Ie		8000	8000	cycles

10 Main Digits (Father Part Number) / 5 Configuration Digits (Son Part Number)

1	2	3	4	5	6	7	8	9	10		11	12	13	14	15
S	C	1	A	2	0	0	3	C	L		A	N	0	0	0

Number of poles (1-3)

Poles configuration

Normally Open	A
Normally Closed	R

Arc chute size and type

900V/1800, plastic arc chute	20

Thermal current per pole @40°C

300 Amp	03

Coil actuator

direct drive, monostable actuation	C

Terminals configuration

L	Standard terminals	L

Project Digits

XX	special versions ID

Aux Contact Model

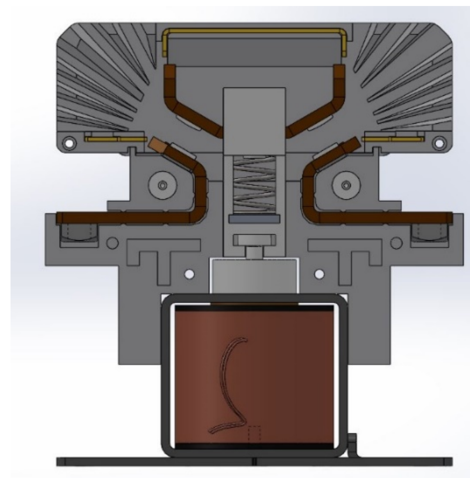
0	-	Y	Others
C	PBX	V	1 c/o type
U	S826	Z	2 c/o type

No. Of aux contacts (S=screw / F=faston)

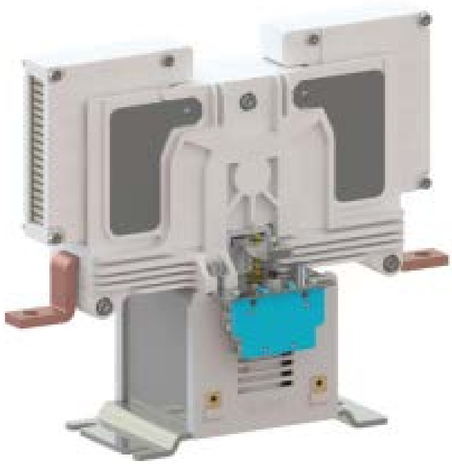
N	No aux contacts		
C	1 NO + 1 NC S	L	3 NO + 3 NC S
F	1 NO + 1 NC F	M	3 NO + 3 NC F
K	2 NO + 2 NC S	P	4 NO + 4 NC S
J	2 NO + 2 NC F	Q	4 NO+4 NC F

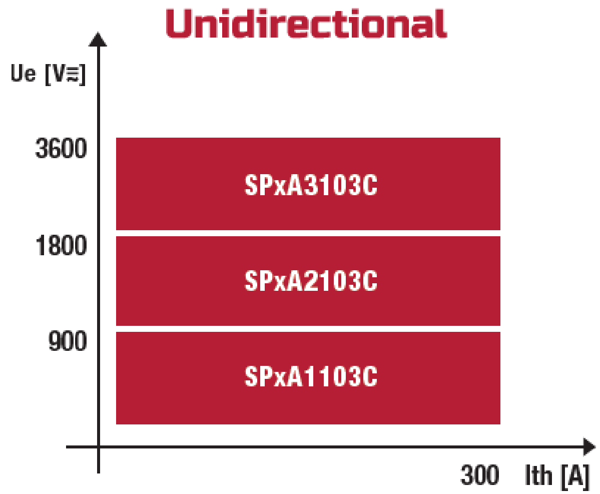
Control voltage Vc (+25%/-30%)

PURE DC SUPPLY	A	24 V_{DC}	I	96 V_{DC}	M	132 V_{DC}
	B	36 V_{DC}	L	100 V_{DC}	F	220 V_{DC}
	C	48 V_{DC}	E	110 V_{DC}	W	250 V_{DC}
	D	72 V_{DC}	U	125 V_{DC}		
RECTIFIED DC SUPPLY	R	-	S	110 V_{AC}	T	220 V_{AC}
	Rectified AC supply to be used on DC side					



SP type : High Duty Unidirectional Contactors





Voltage Levels

900V / 1800V / 3600V

Pole configurations

NO - NC

Thermal Current

300 A per pole

Nr. of Poles

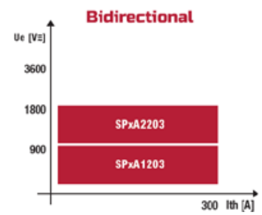
Up to 3 poles

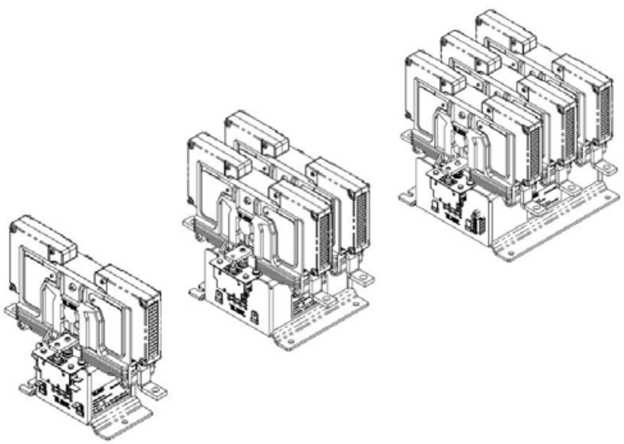
Installation

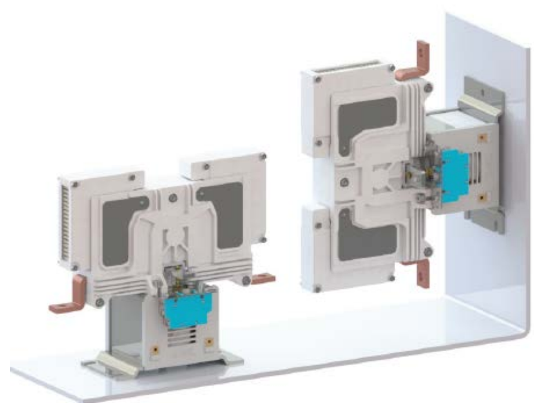
Floor mounted / Wall Munted

Flexibility

Special version for bidirectional DC currents available

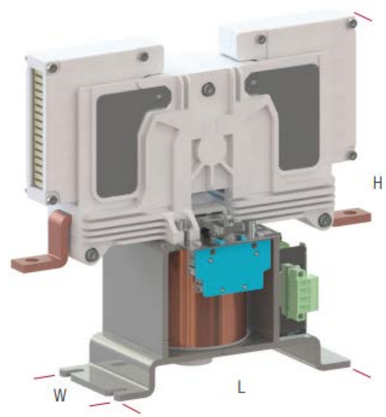






Pollution degree	PD3	IEC 60077
Overvoltage category	OV3	IEC 60077
Component category	C3	IEC 60077
Shock and vibration	Cat 1 / Class B	IEC 61373
Mechanical endurance	2M ops	
Max altitude w/o derating	2000 m asl	
Operational temperature	-40°C to +75°C	
Stocking temperature	-50°C to +85°C	

SP Serie



Voltage V	L mm	H mm	W per pole mm
900	250	180	105
1800	250	190	105
3600	250	190	105

Electrical Data		NO pole	NC pole	
Rated operational voltage	Ur	1800		Vdc/ac
Rated insulation voltage	U_{Nm}	4200		Vdc
Rated impulse withstand voltage	U_{Ni}	22		kV
Conventional free air thermal current at 40°C (per pole)	Ith 40	300		A
Conventional free air thermal current at 75°C (per pole)	Ith 75	270		A
Rated short time withstand current (per pole)	Icw/t	2,5/20		kA/ms
Peak short time withstand current (per pole)	Icw	2,5		kA
Max breaking current DC τ= 10 ms (per pole)	Ibc	150		A
Max breaking current AC cosφ = 0,8 (per pole)	Ibc	400		A
Max making current DC τ= 10 ms (per pole)	Imc	1500		A
Max making current AC cosφ= 0,8 (per pole)	Imc	1500		A
Electrical endurance @Ur/Ir		8000		cycles

10 Main Digits (Father Part Number)											5 Configuration Digits (Son Part Number)				
1	2	3	4	5	6	7	8	9	10		11	12	13	14	15
S	P	1	A	1	0	0	3	C	L		A	N	0	0	0

Number of poles (1-3)

Poles configuration

Normally Open	A
Normally Closed	R

Arc chute size and type

900 V, plastic arc chute	10
900 V, ceramic arc chute	11
900 V, ceramic arc chute - bidirectional	12
1800V, ceramic arc chute	21
1800 V, ceramic arc chute - bidirectional	22
3600 V, ceramic arc chute	31

Thermal current per pole @40°C

300 Amp	03

Coil actuator

direct drive, monostable actuation	C

Terminals configuration

L	Standard terminals	L

Project Digits

XX	special versions ID

Aux Contact Model

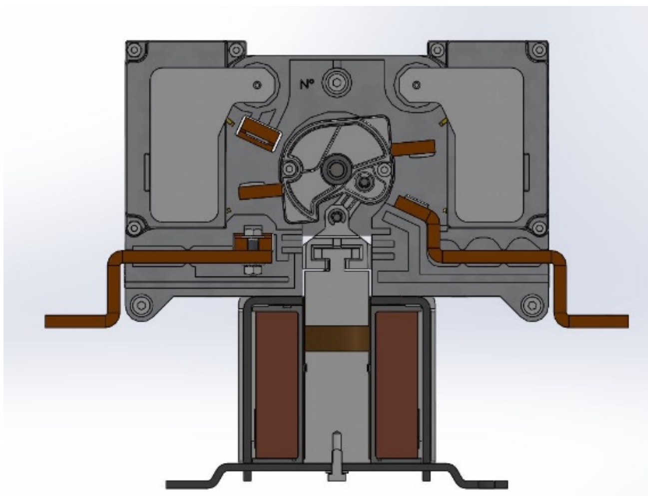
0	-	Y	Others
C	PBX	V	1 c/o type
U	S826	Z	2 c/o type

No. Of aux contacts (S=screw / F=faston)

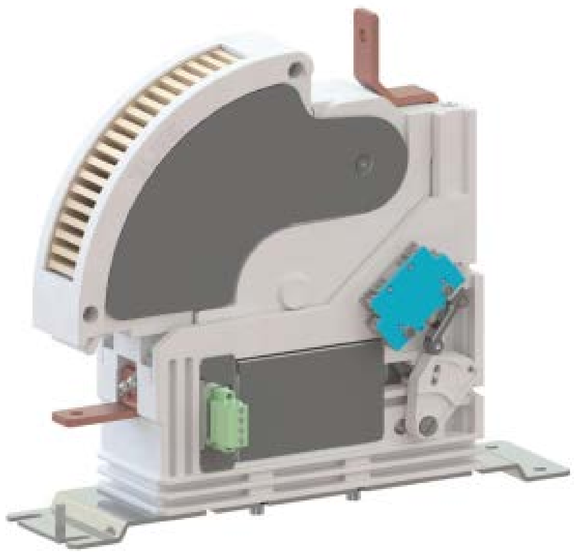
N	No aux contacts		
C	1 NO + 1 NC S	L	3 NO + 3 NC S
F	1 NO + 1 NC F	M	3 NO + 3 NC F
K	2 NO + 2 NC S	P	4 NO + 4 NC S
J	2 NO + 2 NC F	Q	4 NO + 4 NC F

Control voltage Vc (+25%/-30%)

PURE DC SUPPLY	A	24 V_{DC}	I	96 V_{DC}	M	132 V_{DC}
	B	36 V_{DC}	L	100 V_{DC}	F	220 V_{DC}
	C	48 V_{DC}	E	110 V_{DC}	W	250 V_{DC}
	D	72 V_{DC}	U	125 V_{DC}		
RECTIFIED DC SUPPLY	R	-	S	110 V_{AC}	T	220 V_{AC}
	Rectified AC supply to be used on DC side					



SI type : Bidirectional Contactors up to 1300A



High Performance

High making and breaking capacity

Fully bidirectional – No critical currents

Flexible Configuration

Combination of N.O. and N.C. poles

Voltage Levels

900V / 1800V / 3600V

Pole configurations

NO – NC (possible combination)

Thermal Current

Up to 1300A per pole

Nr. of Poles

Up to 4 poles

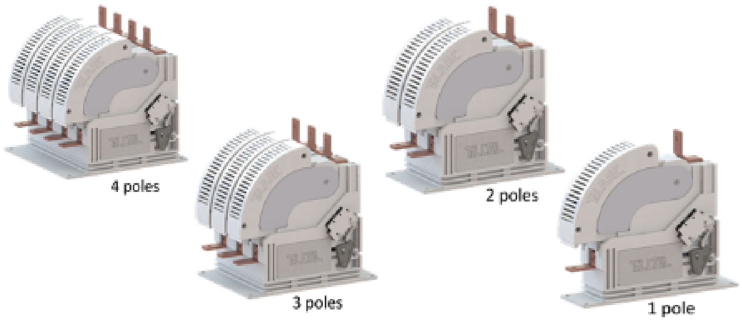
Ue [V≡] \ Ith [A]	250	350	400	450	650	800	1000	1300
3600	SIxA3102	SIxA3103	SIxA3104	SIxA3105	SIxA3107	SIxA3108	SIxA3110	SIxA3113
1800	SIxA2102	SIxA2103	SIxA2104	SIxA2105	SIxA2107	SIxA2108	SIxA2110	SIxA2113
900	SIxA1102	SIxA1103	SIxA1104	SIxA1105	SIxA1107	SIxA1108	SIxA1110	SIxA1113

Size S   Size M   Size L

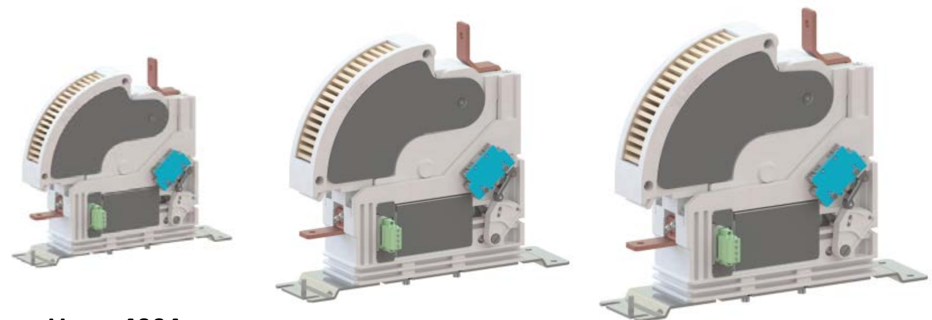
Pollution degree	PD3
Overvoltage category	OV3
Component category	C3
Shock and vibration	Cat 1 / Class B
Mechanical endurance	2M ops

SI Series

1-4 Poles Units

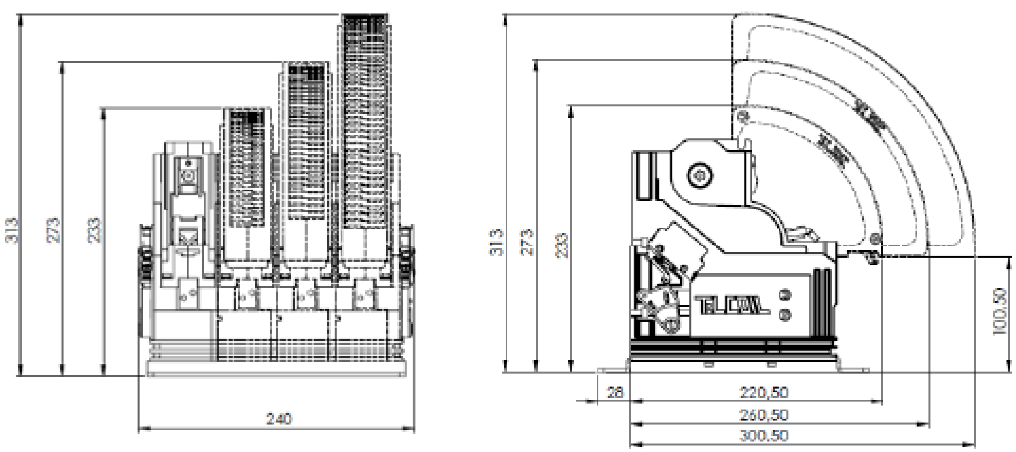


3 Sizes – 1 Range

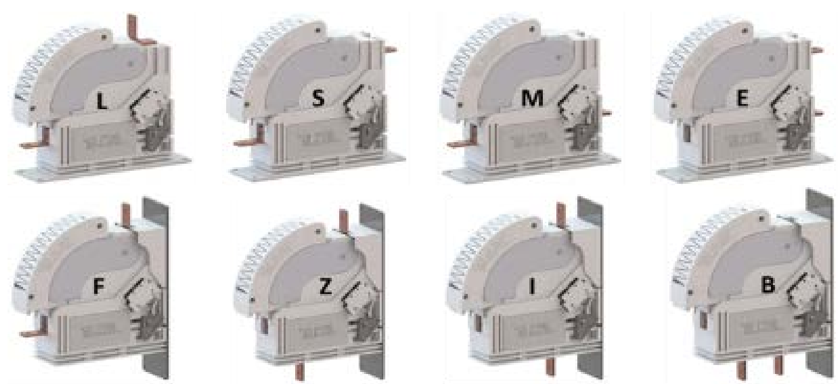


Up to 400A **Up to 800A** **Up to 1300A**

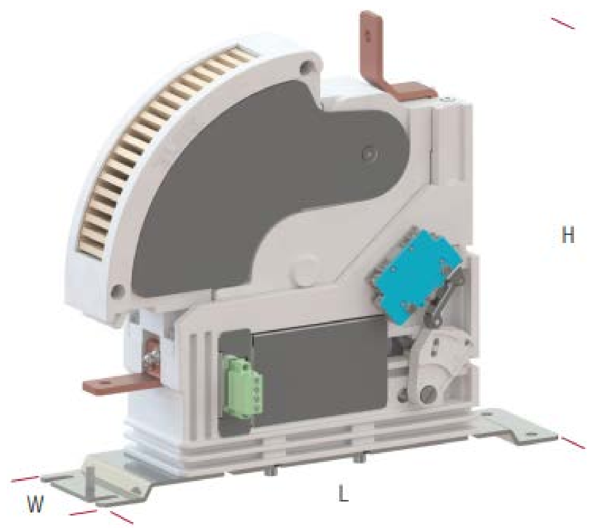
Different Voltage sizes



8 terminal configurations



SI Serie



Current A	Voltage V	L mm	H mm	W per pole mm
250-400	900	240	240	60
	1800	270	270	60
	3600	300	300	60
450-800	900	270	270	75
	1800	290	290	75
	3600	315	315	75
1000-1300	900	270	270	100
	1800	290	290	100
	3600	315	315	100

9 Main Digits (Father Part Number)										6 Configuration Digits (Son Part Number)					
1	2	3	4	5	6	7	8	9		10	11	12	13	14	15
S	I	1	A	1	0	0	2	C		L	A	N	0	0	0

Blow out type

Indirect	I

Number of poles (1-4)

Poles configuration

All Normally Open	A
All Normally Closed	R
NO + NC (*)	Y

Arc chute size and type

900 V, ceramic arc chute	11
1800 V, ceramic arc chute	21
3600 V, ceramic arc chute	31

Thermal current per pole @40°C

250 Amp	02
350 Amp	03
400 Amp	04
450 Amp	05
650 Amp	07
800 Amp	08
1000 Amp	10
1300 Amp	13

Actuator type

Coil, electronic driven, monostable actuation, contactor functionality, on load switching	C
Closing + opening coils, bistable actuation, zero power holding, positive opening, on load swicthing allowed (*)	T

(*) Please contact us

Project Digits

XX	special versions ID

Aux Contact Model

0	-		
C	PBX	Y	Others
U	S826		

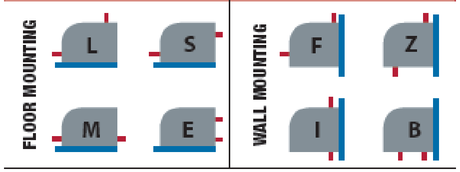
No. Of aux contacts (S=screw / F=faston)

N	No aux contacts		
C	1 NO + 1 NC S	L	3 NO + 3 NC S
F	1 NO + 1 NC F	M	3 NO + 3 NC F
K	2 NO + 2 NC S	P	4 NO + 4 NC S
J	2 NO + 2 NC F	Q	4 NO + 4 NC F

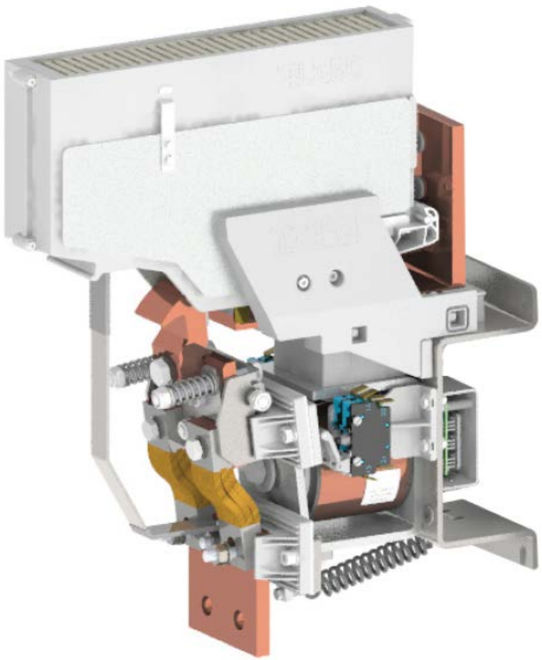
Control voltage Vc (+25%/-30%)

PURE DC SUPPLY	A	$24\ V_{DC}$	I	$96\ V_{DC}$	M	$132\ V_{DC}$
	B	$36\ V_{DC}$	L	$100\ V_{DC}$	F	$220\ V_{DC}$
	C	$48\ V_{DC}$	E	$110\ V_{DC}$	W	$250\ V_{DC}$
	D	$72\ V_{DC}$	U	$125\ V_{DC}$		
RECTIFIED DC SUPPLY	R	-	S	$110\ V_{AC}$	T	$220\ V_{AC}$
	Rectified AC supply to be used on DC side					

Terminals configuration



TR type : Bidirectional Contactors up to 2000A



Voltage Levels

1800V

Pole configurations

NO

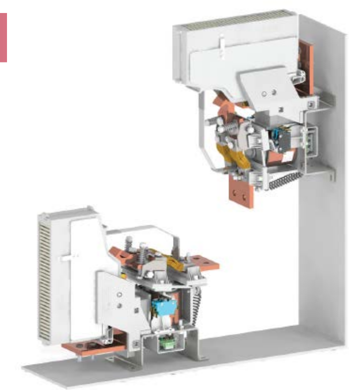
Thermal Current

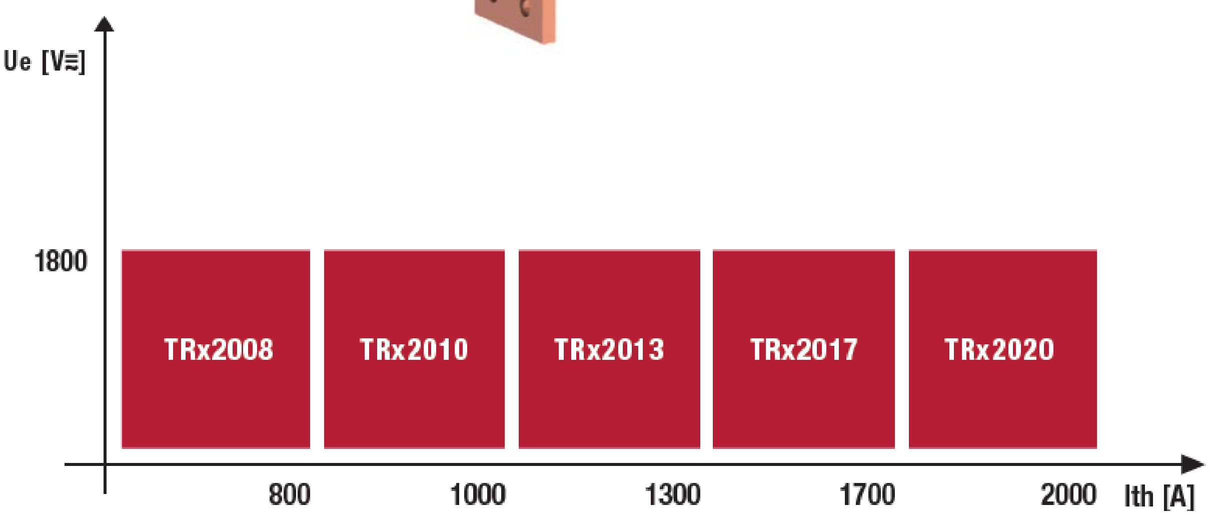
Up to 2000A per pole

Nr. of Poles

Up to 3 poles

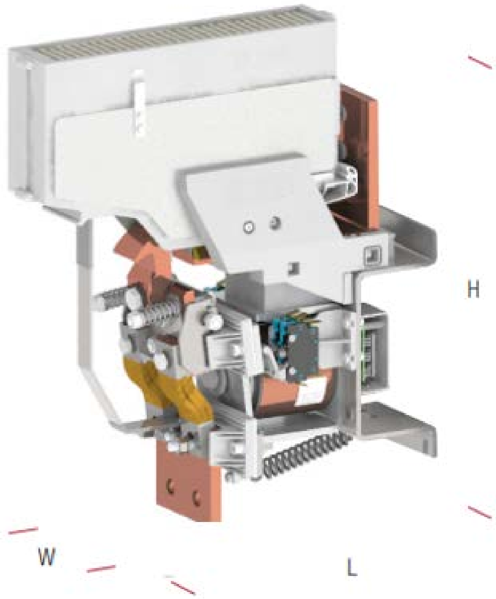
Installation





Pollution degree	PD3	IEC 60077
Overvoltage category	OV3	IEC 60077
Component category	C3	IEC 60077
Shock and vibration	Cat 1 / Class B	IEC 61373
Mechanical endurance	2M ops	

TR SERIES



Current A	Voltage V	L mm	H mm	W per pole mm
800-2000	900	380	433	85
	1800	380	433	85

Electrical Data

Rated Operational Voltage	Ur	1800	Vdc/ac
Rated insulation voltage	U_{Nm}	2300	Vdc
Rated impulse withstand voltage	U_{Ni}	12	kV
Conventional free air thermal current at 40°C (per pole)	Ith 40	1700	A
Conventional free air thermal current at 75°C (per pole)	Ith 75	1530	A
Rated short time withstand current (per pole)	Icw/t	16/100	kA/ms
Peak short time withstand current (per pole)	Icw	16	kA
Max breaking current DC τ= 5 ms (per pole)	Ibc	1415	A
Max breaking current AC cosφ = 0,8 (per pole)	Ibc	2200	A
Max making current DC τ= 5 ms (per pole)	UimpImc	8000	A
Max making current AC cosφ= 0,8 (per pole)	Imc	8000	A
Electrical endurance @Ur/Ir		8000	cycles

9 Main Digits (Father Part Number)										6 Configuration Digits (Son Part Number)					
1	2	3	4	5	6	7	8	9		10	11	12	13	14	15
T	R	1	A	2	0	0	8	C		S	A	N	0	0	0

Blow out type

Indirect	I

Number of poles (1-4)

Poler configuration

All normally open	A

Arch chute size and type

1800, ceramic arc chute	20

Thermal current per pole @40°C

800Amp	08
1000Amp	10
1300Amp	13
1700Amp	17
2000Amp	20

Actuator type

Coil, electronic driven, monostable actuation, contactor functionality, on load switching	C

Project Digits

XX	special version ID

Aux Contact Model

0	-	Y	other
C	PBX		
U	S826		

No. Of aux contacts (S=screw / F=faston)

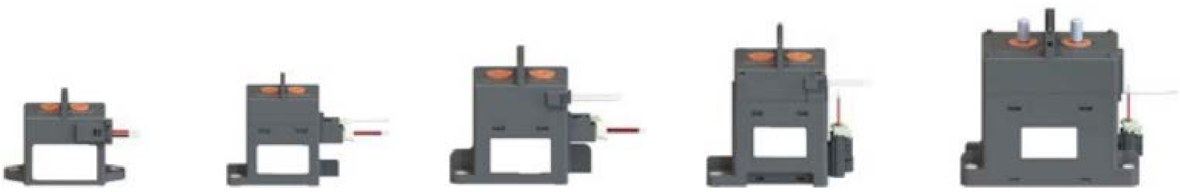
N	No aux contacs		
C	1 NO + 1 NC S	L	3 NO + 3 NC S
F	1 NO + 1 NC F	M	3 NO + 3 NC F
K	2 NO + 2 NC S	P	4 NO + 4 NC S
J	2 NO + 2 NC F	Q	4 NO + 4 NC F

Control voltage Vc (+25%/-30%)

DC SUPPLY	A	24 Vdc	I	96 Vdc	M	132 Vdc
	B	36 Vdc	L	100 Vdc	F	220 Vdc
	C	48 Vdc	E	110 Vdc	W	250 Vdc
	D	72 Vdc	U	120 Vdc		
AC SUPPLY			S	110 Vac	T	220 Vac

Rectified AC supplu to be used on DC side

SK type : Direct Current Relay



- Ceramic seal structure, filled in hydrogen mixed gas, resist contacts oxidation, the contact resistance is low and stable
- Ceramic seal structure with magnetic blow-out technology, realize zero arc, ensure the safety and reliability when you using
- Full compliance with RoHS requirements

Voltage Levels

800V / 1500V

Pole configurations

NO

Breaking capability

Fully bidirectional

Nr. of Poles

1 Pole

Number of Sizes

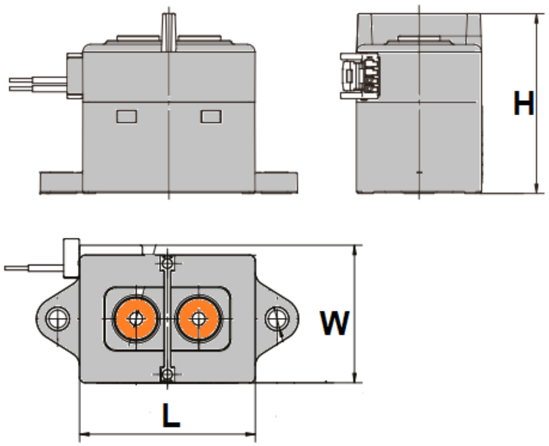
5 Dimensions

Ranges

20A ; 40A ; 60A ; 100A ; 150A ; 200A ; 250A ; 300A

300A; 400A; 500A; 600A; 700A; 800A

SK Series



Current A	L mm	Hmm	Wmm
<100A	45	46,8	32,6
<200A	50	70	39
<300A	56	74,5	42,5
<500A	65	101	58
<600A	90	105	70
<800A			

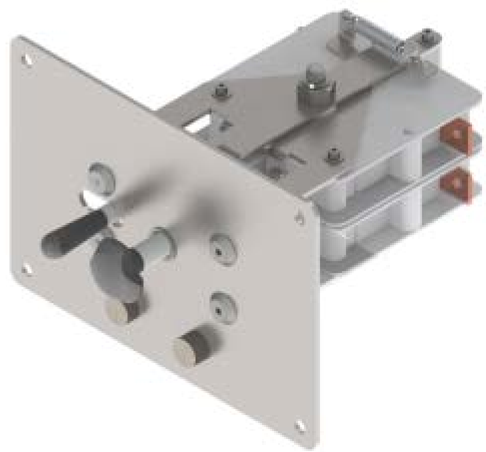
PRODUCT MODEL

S K 1 A 10 1 0 C L A 1 C 0 0

Series Code	
Main Contact Type	1A: SPST-NO
Max. Working Voltage	10: 1000VDC; 15: 1500VDC
Rated Current	04:40A; 06:60A; 10:100A; 15:150A; 20:200A; 25:250A; 30:300A; 40:400A; 50:500A; 60:600A; 70:700A; 80:800A
Derivate Model	Nil: Basic Model; C: Derivate Model
Load Input Terminal	L: Internal Thread; E: External thread (600A For Current over 600A)
Coil Voltage	X: 12VDC; A: 24VDC; C: 48VDC
Auxiliary Contact	0: No Auxiliary Contact; 1: SPST-NO
Coil Input Terminal	L: Lead Wire; C: Connector; E: Lead Wire + Connector
Special Code	XX: Customer Special Code; 00: Standard

NB : Derivative model is unidirectional

TK & TM type : Light Duty Off Load Disconnectors



Voltage Levels

Up to 3600V

Pole configurations

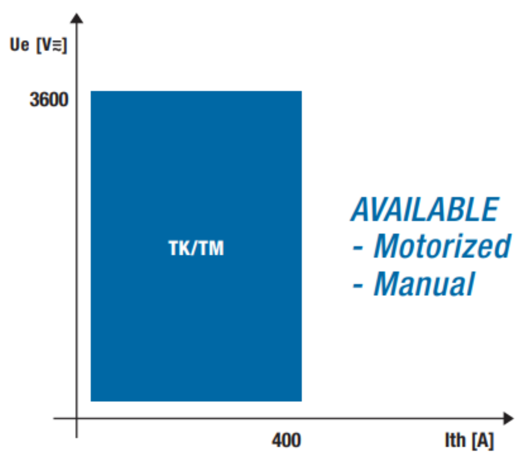
NO / NC - NO+NC – C/O

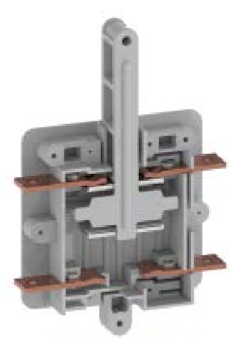
Thermal Current

400 A per pole

Nr. of Poles

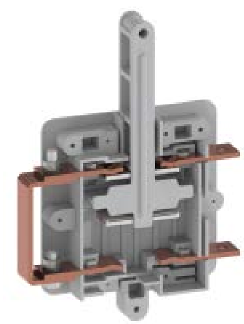
Up to 6 poles with single drive





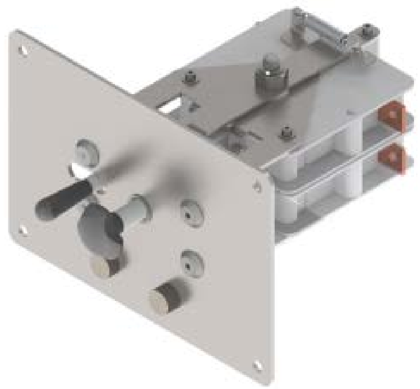
DPST - 1NO+1NC

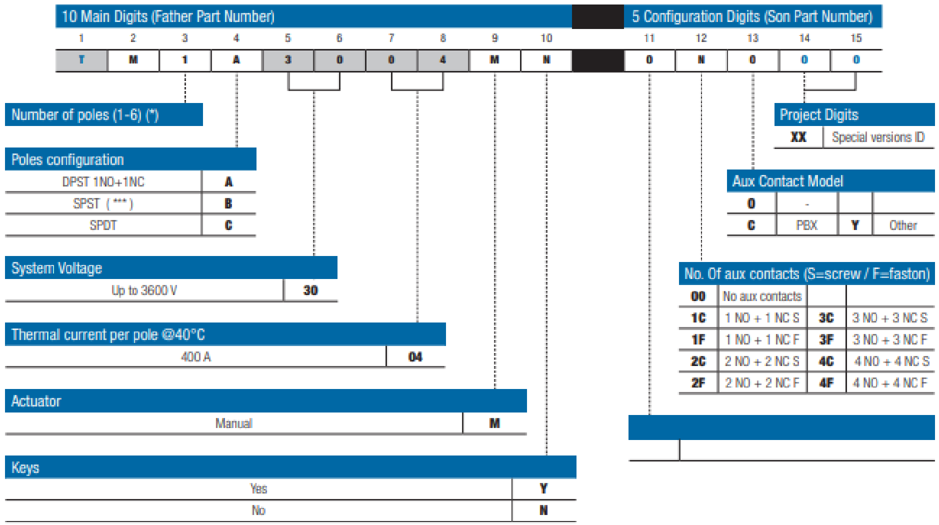
SPST



SPDT

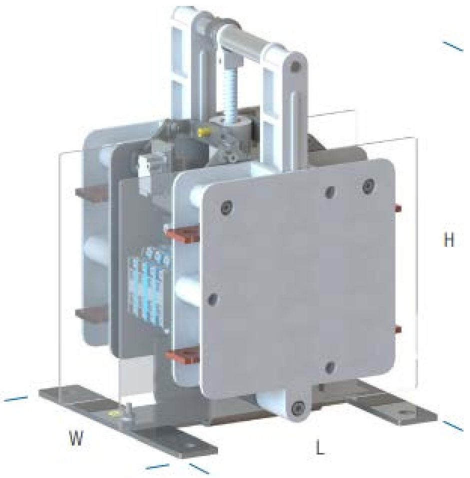
TK Serie



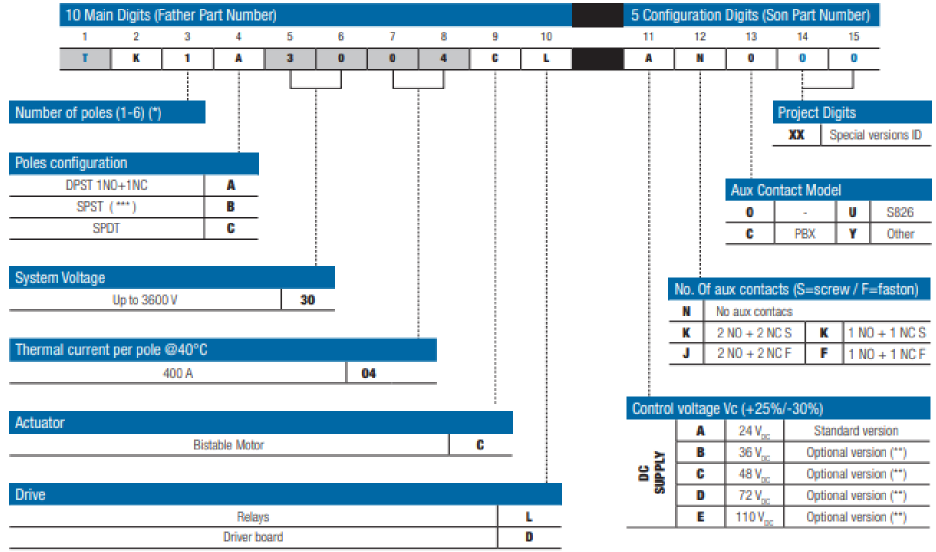


Dimensions according to

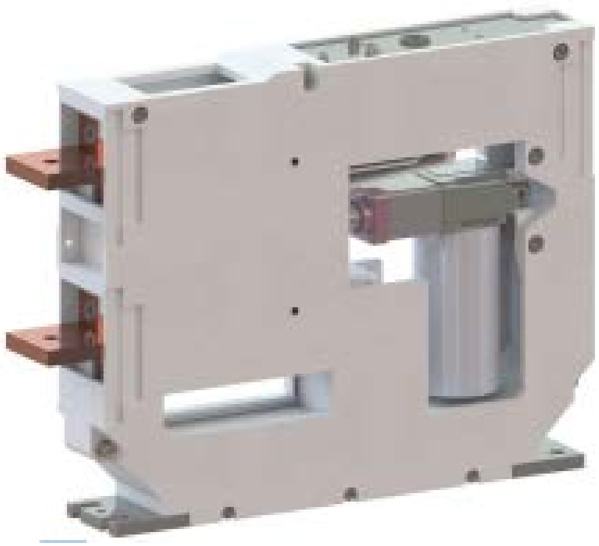
Project requirements



Type	L mm	H mm	W per pole mm
Motor Module	200	270	80
1NO+1NC pole	200	270	40



TS type : High Duty Off Load Disconnectors



Voltage Levels

Up to 3000V

Pole configurations

NO / NC – C/O

Thermal Current

1800 A per pole

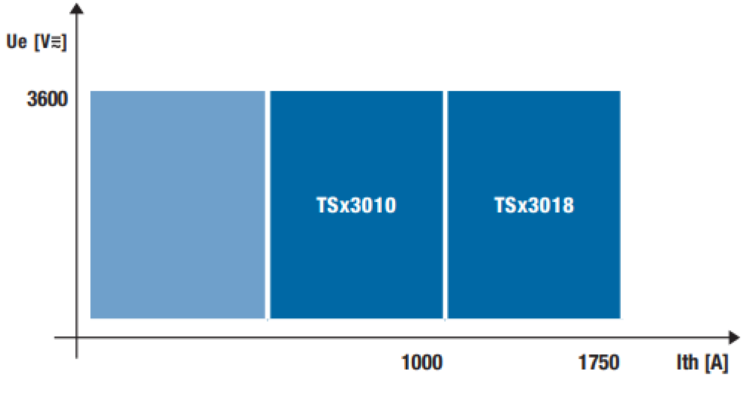
Nr. of Poles

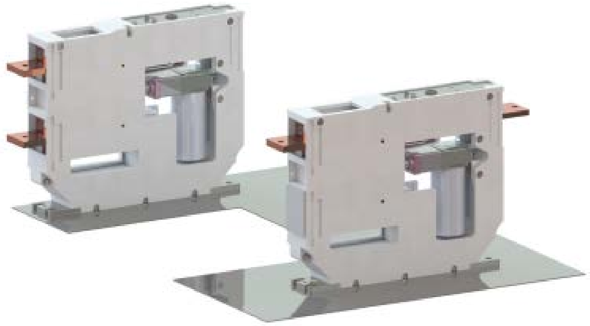
Up to 3 poles with single drive

Pollution degree	PD3
Overvoltage category	OV3
Component category	C3
Shock and vibration	Cat 1 / Class B
Mechanical endurance	250k ops

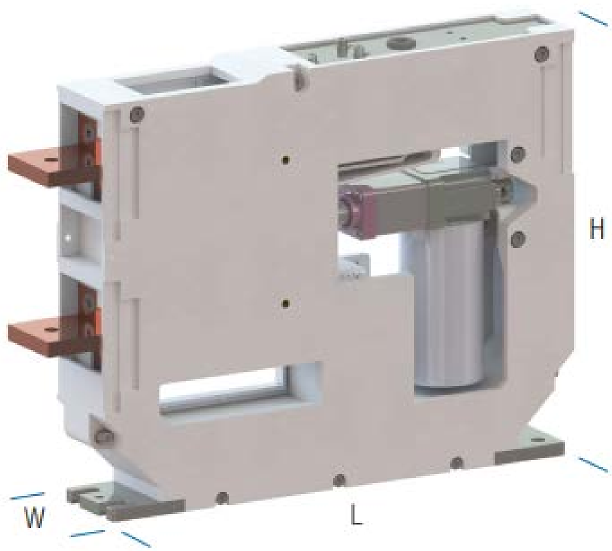
High Performance

Withstand current up to 100kA





TS Serie



Type	L mm	H mm	W per pole mm
Motor Module	500	330	70

	8 Main Digits (Father Part Number)								7 Configuration Digits (Son Part Number)						
1	2	3	4	5	6	7	8		9	10	11	12	13	14	15
T	S	1	3	0	1	5	C		E	H	2	C	0	0	0

Of NO or C/O poles (1-3)

Voltage of poles

Up to 900V	10
Up to 1800V	20
Up to 3600V	30

Current per pole @40° C

1000 Amp	10
1750 Amp	18

Terminals configuration

C	C - shape	NO poles - flat terminals	C
S	S - shape	NO poles - flat terminals	S
E	E - shape	NO poles - straight terminals	E
F	F - shape	C/O poles - flat terminals	F

Project Digits

XX	Special versions

Aux Contact Model

0	-	U	S826
C	PBX	Y	Other

No. Of aux contacts (S=screw / F=faston)

00	No aux contacts		
1C	1 NO + 1 NC S	3C	3 NO + 3 NC S
1F	1 NO + 1 NC F	3F	3 NO + 3 NC F
2C	2 NO + 2 NC S	4C	4 NO + 4 NC S
2F	2 NO + 2 NC F	4F	4 NO + 4 NC F

Mounting orientation

H	Floor mounting - base plate
V	Wall mounting - base plate vertical

Control voltage Vc (+25%/-30%)

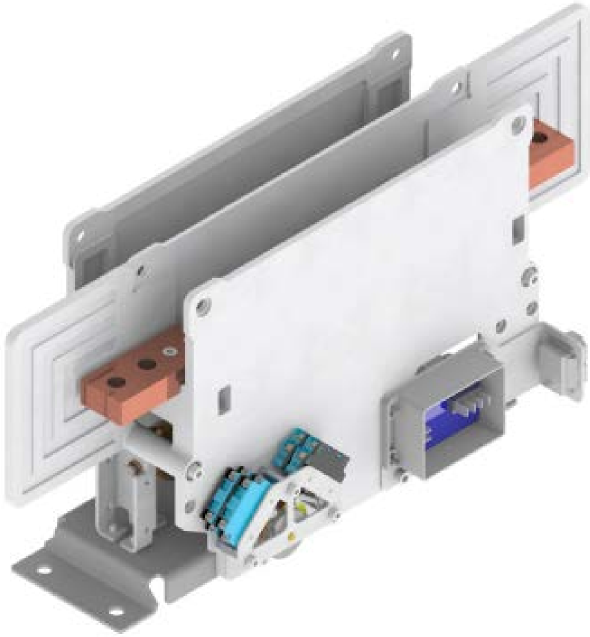
DC SUPPLY	A	24 V_{DC}	D	72 V_{DC}
	B	36 V_{DC}	E	110 V_{DC}
	C	48 V_{DC}		

Rectified AC supply to be controlled on DC side

Special Version

Optional side mounted 400A/3000V auxiliary contact 1NO+1NC

TD type : High Duty Off Load Disconnectors



Voltage Levels

Up to 3000V

Thermal Current

2000 A per pole

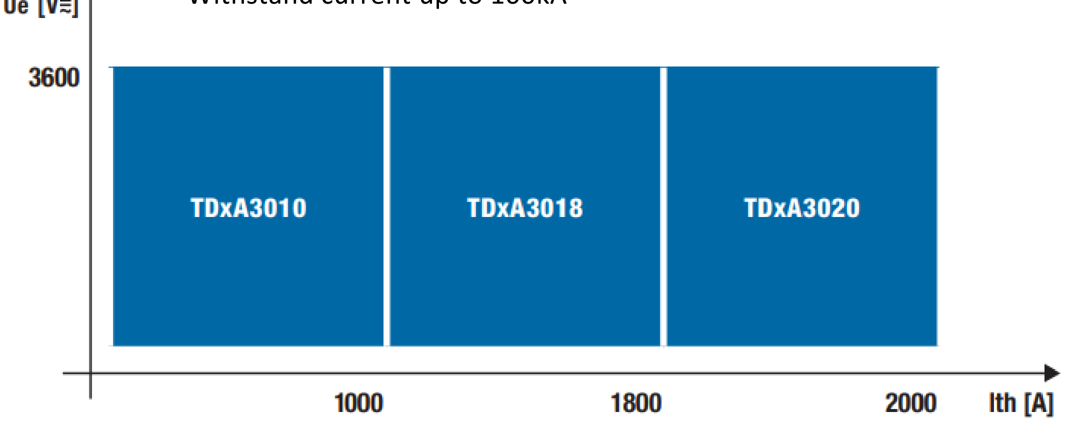
Nr. of Poles

Up to 3 poles with single drive

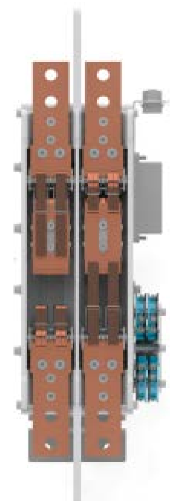
Pollution degree	PD3
Overvoltage category	OV3
Component category	C3
Shock and vibration	Cat 1 / Class B
Mechanical endurance	250k ops

High Performance

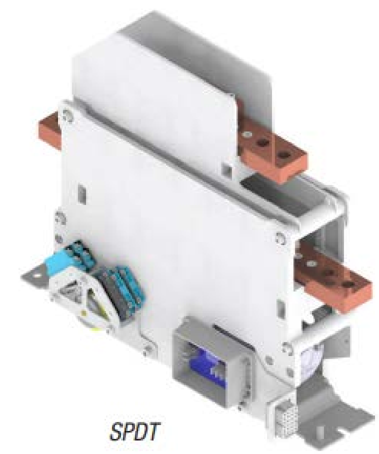
Withstand current up to 100kA



SPST (***)

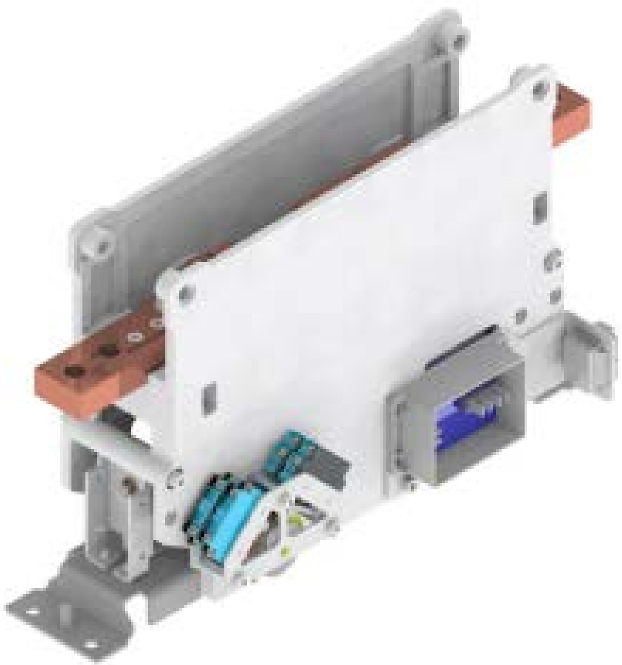


DPST 1NO+1NC



SPDT

TD Serie



Type	L mm	H mm	W per pole mm
800	440	250	88
1800	440	250	88
2000	440	250	120

10 Main Digits (Father Part Number)											5 Configuration Digits (Son Part Number)				
1	2	3	4	5	6	7	8	9	10		11	12	13	14	15
T	D	1	A	3	0	0	8	C	D		A	N	0	0	0

Number of poles (1-4)

Poles configuration

DPST 1NO+1NC	A
SPST (***)	B
SPDT	C

System Voltage

Up to 3600V	30

Current per pole @40° C

1000Amp	10
1800Amp	18
2000Amp	20

Actuator

Bistable Motor	C

Terminal configuration

D-Shape	D
U-Shape	U

Project Digits

XX	Special versions ID

Aux Contact Model

0	-	U	S826
C	PBX	Y	Other

No. Of aux contacts (S=screw / F=faston)

N	No aux contacs		
C	1 NO + 1 NC S	L	3 NO + 3 NC S
F	1 NO + 1 NC F	M	3 NO + 3 NC F
K	2 NO + 2 NC S	P	4 NO + 4 NC S
J	2 NO + 2 NC F	Q	4 NO + 4 NC F

Control voltage Vc (+25%/-30%)

DC SUPPLY	A	24 V_{DC}
	B	36 V_{DC}
	C	48 V_{DC}
	D	72 V_{DC}
	E	110 V_{DC}
	F	220 V_{DC}

Special Version

Side mounted 400A/3000V auxiliary contact 1NO+1NC

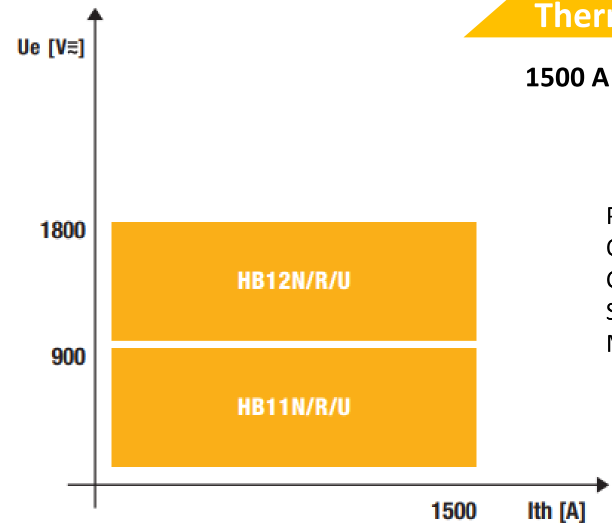
HB type : High Speed Circuit Breakers

Voltage Levels

1000V – 2000V

Thermal Current

1500 A



Pollution degree	PD3
Overvoltage category	OV3
Component category	C3
Shock and vibration	Cat 1 / Class B
Mechanical endurance	200k ops

Flexibility in installation

N No box

R Box Roof Mounted

U Box Underframe Mounted

HB Technical Data

Type	L mm	H mm	W per pole mm
900 V	450	340	145
1800 V	450	445	145

Minimum flashover distance		A	B	C
	900 V			
	to insulated wall	90	50	30
	to earth (metal wall)	300	100	150
	1800 V			
	to insulated wall	90	50	30
	to earth (metal wall)	300	100	150

Rated operational voltage (Ue)	900 V	1800 V
Rated insulation voltage	2300 V	2300 V
Rated impulse withstand voltage	18 kV	18 kV
Rated operational current (Tamb =+40°C)	1500 A	1500 A
Conventional free air thermal current (Tamb =+40°C)	1500 A	1500 A
Rated short-circuit making and breaking capacity	30 kA	30 kA
Rated time constant T1	30 kA/0 ms	17 kA/0 ms
Rated time constant T2	30 kA/15 ms	30 kA/15 ms
Rated time constant T3	30 kA/50 ms	30 kA/40 ms
Rated time constant T4	30 kA/150 ms	30 kA/100 ms
Operational performance capability	C3	C3
Direct over-current release	0.9 - 1.3 kA	0.9 - 1.3 kA
	1.3 - 1.8 kA	1.3 - 1.8 kA
	1.8 - 3.6 kA	1.8 - 3.6 kA
Peak arc voltage x Ue	2.5	2.5
Power frequency withstand voltage (50 Hz, 1 min)		
Across main contacts (open)	6.6 kV	6.6 kV
Main circuit (closed) to earth and control circuit	6.6 kV	6.6 kV
Low voltages circuit to earth	1.5 kV	1.5 kV
Standard applied	IEC 60077-3 and IEC 61373	IEC 60077-3 and IEC 61373

Electronic control of the coil is included in the product

Available standard solution with external Resistor to replace existing projects

Telarc certificated Company

ISO 9001:2015

Our Quality Management System is certified to the high ISO (International Organization for Standardization) standards and our concept of quality extends way beyond this.
We focus on total quality, which includes advanced processes and the culture of our organization.


CERTIFICATO

TELARC S.r.l.

ISO 9001:2015

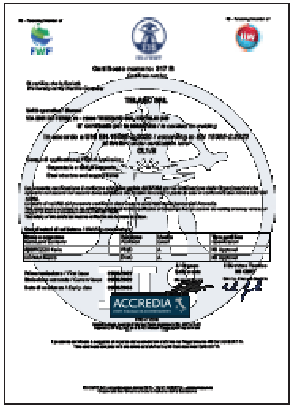

CERTIFICATO

TELARC S.r.l.

ISO 45001:2018

ISO 45001:2018

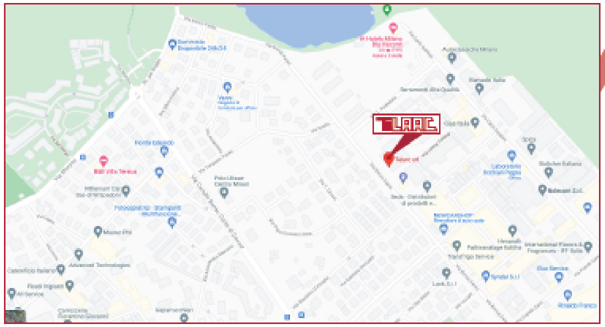
Our certification according to UNI ISO 45001 "Occupational health and safety management systems" establishes a framework to improve safety, reduce risks in the workplace and improve the health and well-being of workers. 'Safety first' thinking is the base of our growth



EN 15085-2:2020

Our design is always oriented to the best practice. We develop competencies in order to serve our customers at best. Our technical team can guarantee a full respect of the welding procedures according to the EN15085 standard.

Telarc is present with subsidiaries in other countries



Telarc Italy

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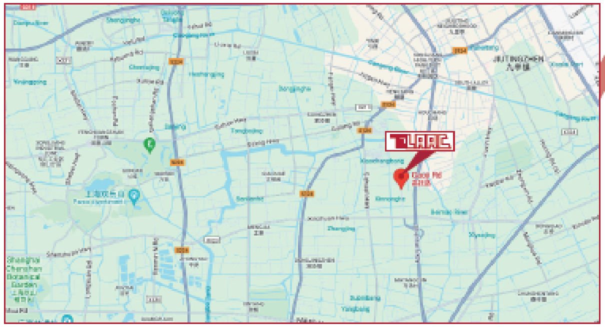
20090 Trezzano
sul Naviglio (MI)



Telarc China

Telarc China is indeed the same as SGT:
Lane 88, Gaoji Road, Songjiang, 201601 Shanghai, P.R. China

Telarc India

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