telergon
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Changeover switches

ISO 9001:2015
TÜVRheinland CERTIFIED

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gorlan team

Changeover switches

Changeover switches with high operating load capacity and a high level of disconnection insulation, high reliability and safety in abnormal conditions are available in different construction models, with a wide range of current ratings, motorized units and various accessories.

According to :

IEC 60947-3

IEC 61439-1

RoHS

Salient features

- Wide range from 63A to 1600A (up to 3150A under request), both in manual and remote (motorized) operation.
- 3P and 4P versions, with advanced switched fully rated neutral pole in 4 pole version.
- AC-23A utilization category as per IEC60947-3.
- Enclosed solution is available up to 400A.
- Motorized operation is achieved by a separate motor kit that includes a manual handle for emergency operation.
- Available with direct handle or door interlocked handle.
- Wide range of accessories: auxiliary contacts, phase barriers, terminal shroud etc.,
- Suitable for isolation according to IEC60947-1 & 3.
- Safety features: Clear position indication (I - O - II), independent to operator speed and positive drive operation (both in closing and opening).

Functional and aesthetic handle

- Good grip and excellent torque/ resistance.
- Padlockable handle in **O - OFF** position (up to three locks Ø 5-8 mm).
- Door interlock in **ON I - ON II** position.
- Self- centering shaft for door handle.

Neutral pole early make & late break

- Early make & late break switched neutral prevents accidental over voltage while making and breaking of loads connected between phase and neutral.

Motorized unit kit

- Motorized unit is used to automate the drive system of changeover switches with a high level of reliability and safety. This facilitates remote operation where access is difficult thus making it easier to work.

CEC Interior 63A - 100A

- Mechanism: innovative, single mechanism for CHO function
- Compact size
- Bridging link not required
- Handle: external & direct handle
- Flexible mounting

Enclosure

- Thick gauge sheet with powder coating ensures long life
- Ample clearance between switch terminals both on top and bottom
- Sufficient clearance between terminals and base
- Gland plate for easy cable connection
- Door interlock in ON position to avoid accidental contacts

S5F Interior 125A - 1600A

- Back to back arrangement
- Handle: external & direct handle
- Compact versions suitable for copper termination
- Standard version for both Cu. and Al.

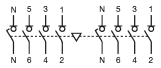
Motorized unit kit

- Two models
- High mechanical and electrical reliability
- Working modes: Manual, Auto & Lock
- Digital I/O control
- Handle for manual operation included

Series CEC
Changeover switches 3P - 3P+N

Size 00
A 63 | 80 | 100

	CODE - 63A *(c)	CODE - 80A *(c)	CODE - 100A *(c)	CODE - 63A *(e)	CODE - 80A *(e)	CODE - 100A *(e)
3P	CEC00633PS0	CEC00803PS0	CEC01003PS0	CTR2CC00633PSP75	CTR2CC00803PSP75	CTR2CC01003PSP75
3P + N	CEC00633NS0	CEC00803NS0	CEC01003NS0	CTR2CC00633NSP75	CTR2CC00803NSP75	CTR2CC01003NSP75



*(c) Please indicate in your order both changeover and handle codes as these entities are managed separately.
A standard shaft is included with the handle (please see next page).

*(e) Changeover in metal enclosure (IP64) is for manual operation only. External handle and bridging links are included.

Technical Information

CE IEC

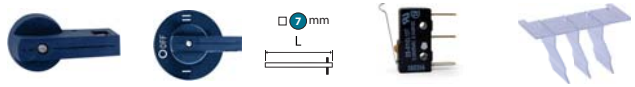
According to IEC / 60947-3

Changeover Switch

					63	80	100
Rated thermal current	Ith	in ambient at 40°C		A	63	80	100
Rated insulation voltage	Ui			V	1000	1000	1000
Rated impulse withstand Voltage		Uimp		kV	8	8	8
AC Rated operational current*(1)	Ie	Ue 400V	AC21A	A	63	80	100
(Rated operational frequency 50/60 Hz)		Ue 400V	AC22A	A	50	80	100
Rated breaking capacity		400V	AC23A	A	320	640	800
Rated making capacity		400V	AC23A	A	400	800	1000
Short circuit behavior							
Short circuit making capacity *(2)		Icm	KA(peak)		1.5	1.5	2.9
Short time with stand current (1 sec)		Icw	KA rms		1	1	2
Mechanical Operations *(3)			Cycles		10000	10000	10000

*(1) Other voltages and /or utilization categories. Please consult.
*(2) Without limiting protective device (short-circuit maintained 50 ms. - 100 ms.).
*(3) Please consult us for more operations.

Accessories

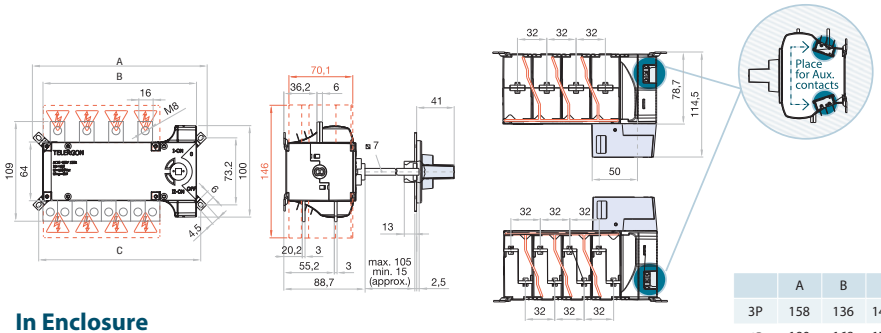


Direct Handle	External Handle	Auxiliary Contacts(*1)	Phase Barrier	
Code	Included shaft (L-137mm)	1 NO+1NC	1kit for input or output	
	Code	Code	3P	4P
D5LSI01	DCELAB1	DCEAUB1	DCECUB1	DCECUB2

*(1) Changeover can incorporate two aux contacts.

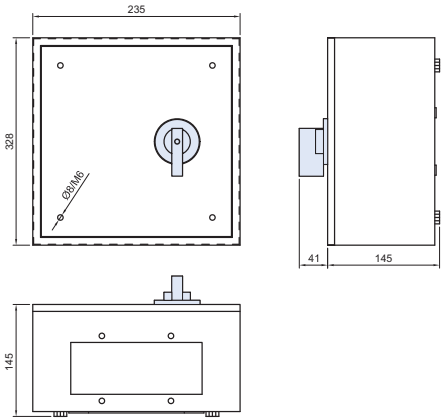
Dimensions (mm)

Interior

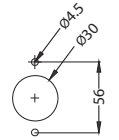


	A	B	C
3P	158	136	145.2
4P	190	168	177.2

In Enclosure



Door drilling for external handle



S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
50	5	20	M8	10

Use phase barriers in order to keep the clearance in air distances.

Series S5F
Changeover switches 3P - 3P+N

Size 0
A 125 | 160C

	CODE - 125A *(c)	CODE - 160A *(c)	CODE - 125A *(e)	CODE - 160A *(e)	CODE *(u)
3P	S5F01253PS0	S5F01603PS0	CTR2FC01253PSP75	CTR2FC01603PSP75	UM - C0A230Z
3P + N	S5F01253NS0	S5F01603NS0	CTR2FC01253NSP75	CTR2FC01603NSP75	

*(c) Changeover manual or motorized by adding UM. Please indicate in your order both changeover and handle codes as these entities are managed separately. A standard shaft is included with the handle (please see next page).

*(e) Changeover in metal enclosure (IP64) is for manual operation only. External handle and bridging links are included.

*(u) Motorized unit Kit - Manual handle is provided to operate during emergency or maintenance only.

Technical Information

According to IEC / 60947-3

Changeover Switch

					125	160
Rated thermal current	Ith	in ambient at 40°C		A	125	160
Rated insulation voltage	Ui			V	1000	1000
Rated impulse withstand Voltage		Uimp		kV	8	8
AC Rated operational current *(1)	Ie	Ue 400V	AC21A	A	125	160
(Rated operational frequency 50/60 Hz)		Ue 400V	AC22A	A	125	160
Rated breaking capacity		400V	AC23A	A	1000	1280
Rated making capacity		400V	AC23A	A	1250	1600
Short circuit behavior						
Short circuit making capacity *(2)		Icm		KA(peak)	13	13
Short time with stand current (1 sec)		Icw		KA rms	7	7
Mechanical Operations *(3)				Cycles	8000	8000
Maximum Al Cable with lug *(4)				sq.mm	70	70

*(1) Other voltages and /or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50 ms.-100 ms.)
*(3) Please consult us for more operations
*(4) Bimetalic lug for M8 connection (Dia 9mm) to be used
*(5) For DC values please consult

Motorized unit kit

Operational torque	Nm	20
Voltage supply *(5)	ΔV	230 Vac
Operating voltage range	ΔV	0,85*V to 1,15*V
Operating voltage range according to IEC 60947-6	ΔV	0,95*V to 1,10*V
Cable section of voltage supply	mm2	1,5 - 2,5
Cable section area Input Signals	mm2	0,5 - 1,5
Cable section area Auto-Lock mode Outputs	mm2	0,5 - 1,5
Inrush Current	A	1,1
Use current (Irms)	mA	45
Protective Fuse | Reference F1 AL250 V (Littel fuse)	A	1
Operating angle		-70° / 0° / +70° (I -0-II)
Number of UM operations	Cycles	8000
Operation rate (0-I-II-0)	Cycles/hour	120
Working temperature range		-25°C ...+55°C
Transportation and storage temperature		-40°C ...+70°C
UM weight	kg	1,8

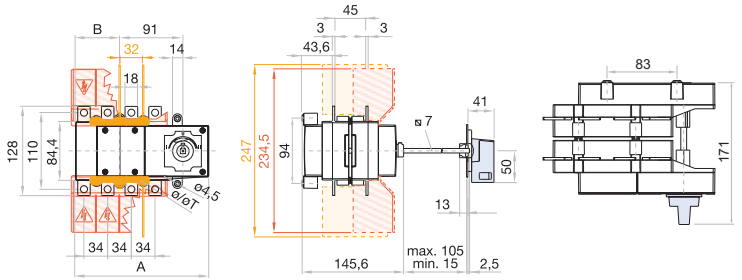
Pos.	Direction	Pos.	Operating time
0	→	I	750 ms
I	→	0	750 ms
0	→	II	750 ms
II	→	0	750 ms
I	→	II	1,5 sec
II	→	I	1,5 sec

Accessories

Direct Handle	External Handle	Auxiliary Contacts		Terminal Shrouds *(p)			Phase Barrier *(p)		Bridging Links	
				3 Pole Each1 unit, 4 Pole 2 Unit, Frontal poles only			1 kit for input or output		Code	
Code	Included shaft (L-137mm)	1NO+1NC	2NO+2NC	UP	DOWN					
	Code	Code	Code	3P	3P	4P	3P	4P	3P	4P
D5LSI01	D5LAN01	DS-AU11	DS-AU12	DS-TS03	DS-TS02	DS-TS01	DS-PB01	DS-PB02	D5LPC04	D5LPC05

*(p) Accessories not compatible with each other.

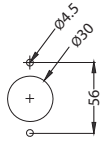
Dimensions (mm)



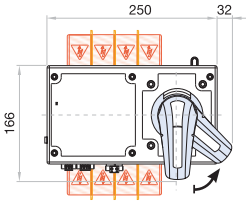
A		B		ø øT	
3P	4P	3P	4P		
181	192	53	64	10	M8

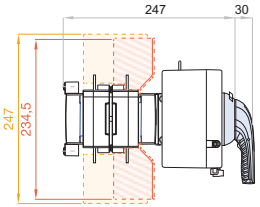
Interior

Door drilling for external handle

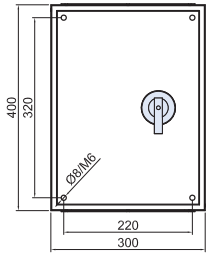


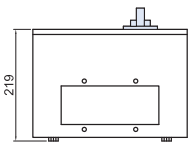
With Motorized Unit

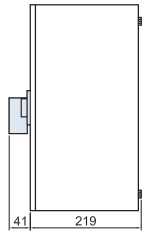


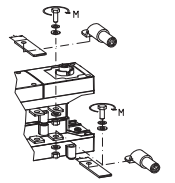


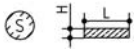
In Enclosure











S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
95	5	25	M8	13

Series S5F

Changeover switches 3P - 3P+N

Size 0

A 160 | 200 | 250C

	CODE - 160A *(c)	CODE - 200A *(c)	CODE - 250A *(c)	CODE - 160A *(e)	CODE - 200A *(e)	CODE - 250A *(e)	CODE *(u)
3P	S5F01603PJ0	S5F02003PS0	S5F02503PD0	CTR2FC01603PJP75	CTR2FC02003PSP75	CTR2FC02503PDP75	UM-C0A230Z
3P + N	S5F01603NJ0	S5F02003NS0	S5F02503ND0	CTR2FC01603NJP75	CTR2FC02003NSP75	CTR2FC02503NDP75	

*(c) Changeover manual or motorized by adding UM. Please indicate in your order both changeover and handle codes as these entities are managed separately. A standard shaft is included with the handle (please see next page).

*(e) Changeover in metal enclosure (IP64) is for manual operation only. External handle and bridging links are included.

*(u) Motorized unit Kit - Manual handle is provided to operate during emergency or maintenance only.

Technical Information

CE IEC

According to IEC / 60947-3

Changeover Switch

					160	200	250
Rated thermal current	Ith	in ambient at 40°C		A	160	200	250
Rated insulation voltage	Ui			V	1000	1000	1000
Rated impulse withstand Voltage	Uimp			kV	8	8	8
AC Rated operational current*(1)	Ie	Ue 400V	AC21A	A	160	200	250
(Rated operational frequency 50/60 Hz)		Ue 400V	AC22A	A	160	200	200
Rated breaking capacity		400V	AC23A	A	1280	1280	1280
Rated making capacity		400V	AC23A	A	1600	1600	1600
Short circuit behavior							
Short circuit making capacity *(2)	Icm		KA(peak)		13	13	13
Short time with stand current (1 sec)	Icw		KA rms		7	7	7
Mechanical Operations *(3)			Cycles		8000	8000	8000
Maximum Al Cable with lug *(4)			sq.mm		150	150	150

*(1) Other voltages and /or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50 ms.-100 ms.)
*(3) Please consult us for more operations
*(4) For DC values please consult

Motorized unit kit

Operational torque	Nm	20
Voltage supply *(4)	V	230 Vac
Operating voltage range	ΔV	0,85*V to 1,15*V
Operating voltage range according to IEC 60947-6	ΔV	0,95*V to 1,10*V
Cable section of voltage supply	mm2	1,5-2,5
Cable section area Input Signals	mm2	0,5-1,5
Cable section area Auto-Lock mode Outputs	mm2	0,5-1,5
Inrush Current	A	1,1
Use current (Irms)	mA	45
Protective Fuse | Reference F1 AL250 V (Littel fuse)	A	1
Operating angle		-70°/ 0° / +70° (I -0-II)
Number of UM operations	Cycles	8000
Operation rate (0-I-II-0)	Cycles/hour	120
Working temperature range		-25°C ...+55°C
Transportation and storage temperature		-40°C ...+70°C
UM weight	kg	1,8

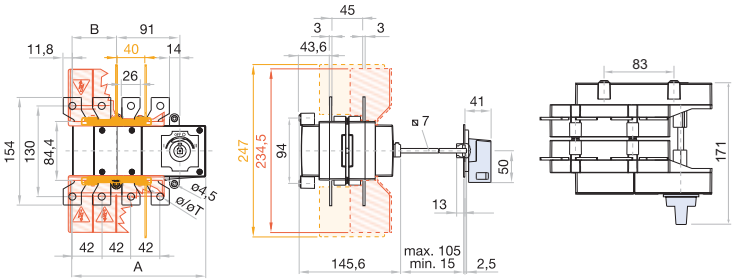
Pos.	Direction	Pos.	Operating time
0	⇒	I	750 ms
I	⇒	0	750 ms
0	⇒	II	750 ms
II	⇒	0	750 ms
I	⇒	II	1,5 sec
II	⇒	I	1,5 sec

Accessories

Direct Handle	External Handle	Auxiliary Contacts		Terminal Shrouds*(P)			Phase Barrier*(P)		Bridging Links	
				3 Pole Each 1 unit, 4 Pole 2 Unit, Frontal poles only			1 kit for input or output		Code	
Code	Included shaft (L-137mm)	1NO+1NC	2NO+2NC	UP	DOWN					
	Code	Code	Code	3P	3P	4P	3P	4P	3P	4P
D5LSI01	D5LAN01	DS-AU11	DS-AU12	DS-TS06	DS-TS05	DS-TS04	DS-PB04	DS-PB03	D5LPC06	D5LPC07

*(p) Accessories not compatible with each other.

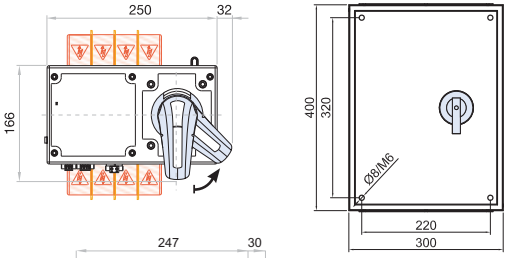
Dimensions (mm)

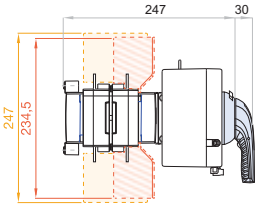


A		B		ø	øT
3P	4P	3P	4P		
181	192	53	64	10	M10

Interior

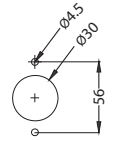
With Motorized Unit

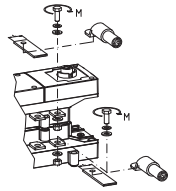


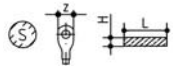


In Enclosure

Door drilling for external handle







	S max (Cu)	Z max	H max (Cu)	L max (Cu)		M
	mm²		mm	mm		Nxm
160 A	95	-	5	25	M8	13
200 A 250 A	120	30	5	30	M10	18

Series S5F
Changeover switches 3P - 3P+N

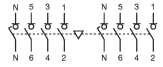
Size 1
A 250 | 315C

	CODE - 250A *(c)	CODE - 315A *(c)
3P	S5F02503PR0	S5F03153PR0
3P + N	S5F02503NR0	S5F03153NR0

	CODE - 250A *(e)	CODE - 315A *(e)
3P	CTR2FC02503PRP75	CTR2FC03153PRP75
3P + N	CTR2FC02503NRP75	CTR2FC03153NRP75

CODE *(u): UM-C15230Z

	CODE - 250A *(cr)	CODE - 315A *(cr)
3P	S5F02503PRC	S5F03153PRC
3P + N	S5F02503NRC	S5F03153NRC



*(c) Changeover manual or motorized by adding UM. Please indicate in your order both changeover and UM codes as these entities are managed separately. A standard shaft is included with the handle (please see next page).

*(e) Changeover in metal enclosure (IP64) is for manual operation only. External handle and bridging links are included.

*(u) Motorized unit Kit - Manual handle is provided to operate during emergency or maintenance only.

*(cr) Changeover ready to motorize. Please indicate in your order both changeover and UM codes as both these units are managed separately.

Technical Information

According to IEC / 60947-3

Changeover Switch

					250	315
Rated thermal current	Ith	in ambient at 40°C		A	250	315
Rated insulation voltage	Ui			V	1000	1000
Rated impulse withstand Voltage	Uimp			kV	8/12*	8/12*
AC Rated operational current*(1)	Ie	Ue 400V	AC21A	A	250	315
(Rated operational frequency 50/60 Hz)		Ue 400V	AC22A	A	250	315
Rated breaking capacity		400V	AC23A	A	2000	2520
Rated making capacity		400V	AC23A	A	2500	3150
Short circuit behavior						
Short circuit making capacity *(2)	Icm		KA(peak)		20	20
Short time with stand current (1 sec)	Icw		KA rms		12	12
Mechanical Operations *(3)			Cycles		8000	8000
Maximum Al Cable with lug			sq.mm		185	185

* Using the phase barrier
*(1) Other voltages and /or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50 ms.-100 ms.)
*(3) Please consult us for more operations
*(4) For DC values please consult

Motorized unit kit

Operational torque	Nm	30
Voltage supply *(4)	V	230 Vac
Operating voltage range	ΔV	0,9*V to 1,1*V
Operating voltage range according to IEC 60947-6	ΔV	0,95*V to 1,10*V
Cable of voltage supply	mm2	1,5 - 2,5
Cable section area Input Signals	mm2	0,5 - 1,5
Cable section area Auto-Lock mode Outputs	mm2	0,5 - 1,5
Inrush Current	A	1,1
Use current (Irms)	mA	45
Protective Fuse | Reference F1 AL250 V (Littel fuse)	A	1
Operating angle		-70°/ 0° / +70° (I -0-II)
Number of UM operations	Cycles	5000
Operation rate (0-I-II-0)	Cycles/hour	60
Working temperature range		-25°C ...+55°C
Transportation and storage temperature		-40°C ...+70°C
UM weight	kg	1,8

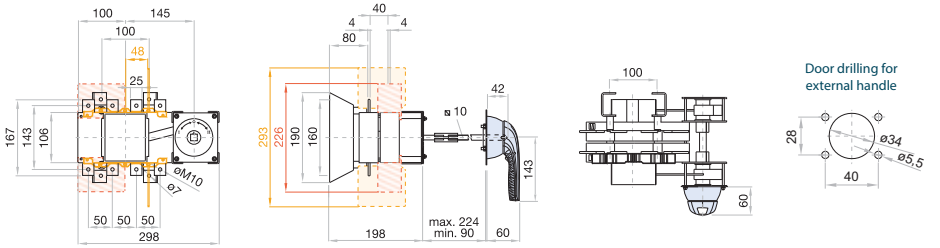
Pos.	Direction	Pos.	Operating time
0	⇒	I	750 ms
I	⇒	0	750 ms
0	⇒	II	750 ms
II	⇒	0	750 ms
I	⇒	II	1,5 sec
II	⇒	I	1,5 sec

Accessories

Direct Handle	External Handle	Auxiliary Contacts		Terminal Shrouds*(P)	Phase Barrier*(P)		Bridging Links	
Code	Included shaft (L-227mm) Code	1 NO+1NC Code	2 NO+2NC Code	1 Kit for input or output Frontal poles only	1kit for input or output 3P	4P	Code 3P	4P
D5LLI21	D5LLA11	DS-AU11	DS-AU12	DS-CU11	DS-PB12	DS-PB11	D5LPC15	D5LPC16

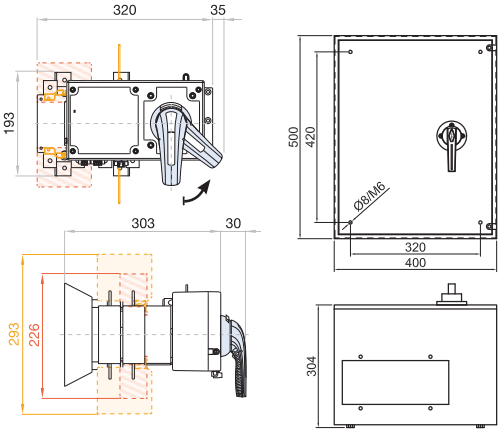
*(p) Accessories not compatible with each other.

Dimensions (mm)

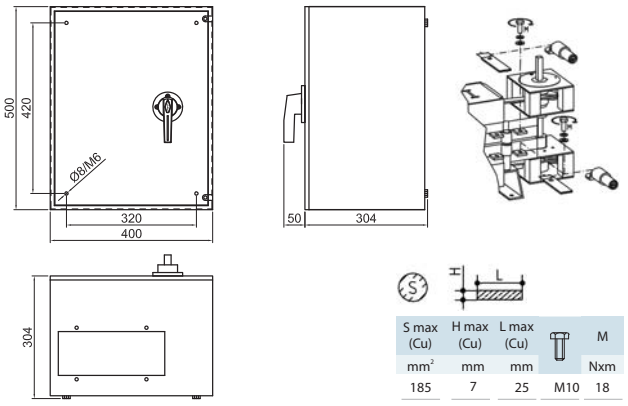


Interior

With Motorized Unit



In Enclosure



S max (Cu)	H max (Cu)	L max (Cu)		M
mm²	mm	mm		Nxm
185	7	25	M10	18

Series S5F
Changeover switches 3P - 3P+N

Size 1
A 315 | 400

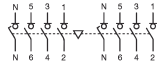
MOTORIZED KIT AVAILABLE KIT UM SEE UMKIT

	CODE - 315A *(c)	CODE - 400A *(c)
3P	S5F03153PF0	S5F04003PC0
3P + N	S5F03153NF0	S5F04003NC0

	CODE - 315A *(e)	CODE - 400A *(e)
3P	CTR2FC03153PFP75	CTR2FC04003PCP75
3P + N	CTR2FC03153NFP75	CTR2FC04003NCP75

CODE *(u): UM-C15230Z

	CODE - 315A *(cr)	CODE - 400A *(cr)
3P	S5F03153PFC	S5F04003PCC
3P + N	S5F03153NFC	S5F04003NCC



*(c) Changeover manual or motorized by adding UM. Please indicate in your order both changeover and handle codes as these entities are managed separately. A standard shaft is included with the handle (please see next page).

*(e) Changeover in metal enclosure (IP64) is for manual operation only. External handle and bridging links are included.

*(u) Motorized unit Kit - Manual handle is provided to operate during emergency or maintenance only.

*(cr) Changeover ready to motorize. Please indicate in your order both changeover and UM codes as both these units are managed separately.

Technical Information

CE IEC

According to IEC / 60947-3

Changeover Switch

					315	400
Rated thermal current	Ith	in ambient at 40°C		A	315	400
Rated insulation voltage	Ui			V	1000	1000
Rated impulse withstand Voltage	Uimp			kV	8/12*	8/12*
AC Rated operational current*(1)	Ie	Ue 400V	AC21A	A	315	400
(Rated operational frequency 50/60 Hz)		Ue 400V	AC22A	A	315	400
Rated breaking capacity		400V	AC23A	A	2520	3200
Rated making capacity		400V	AC23A	A	3150	4000
Short circuit behavior						
Short circuit making capacity *(2)	Icm		KA(peak)		20	20
Short time with stand current(1 sec)	Icw		KA rms		12	12
Mechanical Operations *(3)			Cycles		8000	8000
Maximum Al Cable with lug			Sq.mm		300	300

* Using the phase barrier
*(1) Other voltages and /or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50 ms.-100 ms.)
*(3) Please consult us for more operations
*(4) For DC values please consult

Motorized unit kit

Operational torque	Nm	30
Voltage supply *(4)	V	230 Vac
Operating voltage range	ΔV	0,9*V to 1,1*V
Operating voltage range according to IEC 60947-6	ΔV	0,95*V to 1,1*V
Cable of voltage supply	mm2	1,5 - 2,5
Cable section area Input Signals	mm2	0,5 - 1,5
Cable section area Auto-Lock mode Outputs	mm2	0,5 - 1,5
Inrush Current	A	1,1
Use current (Irms)	mA	45
Protective Fuse | Reference F1 AL250 V (Littel fuse)	A	1
Operating angle		-70° / 0° / +70° (I - 0 - II)
Number of UM operations	Cycles	5000
Operation rate (0-I-II-0)	Cycles/hour	60
Working temperature range		-25°C ...+55°C
Transportation and storage temperature		-40°C ...+70°C
UM weight	kg	1,8

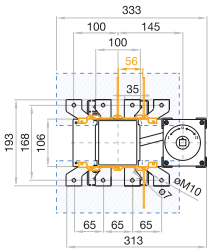
Pos.	Direction	Pos.	Operating time
0	⇒	I	750 ms
I	⇒	0	750 ms
0	⇒	II	750 ms
II	⇒	0	750 ms
I	⇒	II	1,5 sec
II	⇒	I	1,5 sec

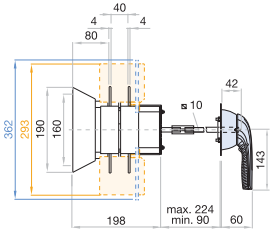
Accessories

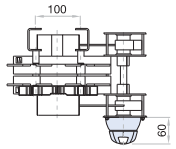
Direct Handle	External Handle	Auxiliary Contacts		Terminal Shrouds*(p)	Phase Barrier*(p)		Bridging Links	
Code	Included shaft (L-227mm) Code	1 NO+1NC Code	2 NO+2NC Code	1 Kit for input or output Frontal poles only	1kit for input or output 3P	4P	Code 3P	4P
D5LLI21	D5LLA11	DS-AU11	DS-AU12	DS-CU12	DS-PB14	DS-PB13	D5LPC15	D5LPC16

*(p) Accessories not compatible with each other.

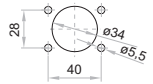
Dimensions (mm)





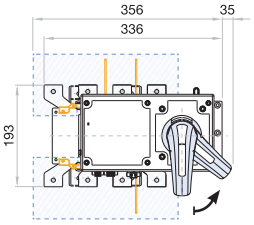


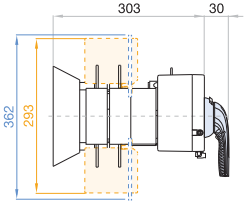
Door drilling for external handle



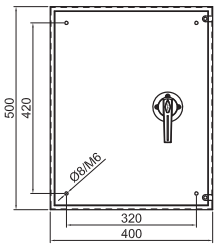
Interior

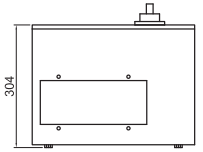
With Motorized Unit

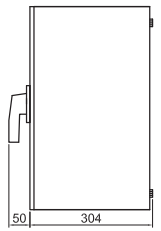


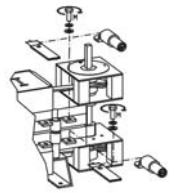


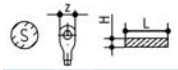
In Enclosure











S max (Cu) mm²	Z max	H max (Cu) mm	L max (Cu) mm	M	Nxm
240	44	7	40	M10	24

Series S5F

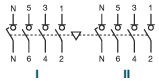
Changeover switches 3P - 3P+N

Size 2
A 630C | 800C

MOTORIZED KIT AVAILABLE KIT UM SEE UMKIT

	CODE - 630A *(c)	CODE - 800A *(c)
3P	S5F06303PR0	S5F08003PC0
3P + N	S5F06303NR0	S5F08003NC0
	CODE - 630A *(cr)	CODE - 800A *(cr)
3P	S5F06303PRC	S5F08003PCC
3P + N	S5F06303NRC	S5F08003NCC

CODE *(u)
UM-C25230M



*(c) Changeover manual or motorized by adding UM. Please indicate in your order both changeover and handle codes as these entities are managed separately. A standard shaft is included with the handle (please see next page).

*(u) Motorized unit Kit - Manual handle is provided to operate during emergency or maintenance only.

*(cr) Changeover ready to motorize. Please indicate in your order both changeover and UM codes as both these units are managed separately.

Technical Information

CE IEC

According to IEC / 60947-3

Changeover Switch

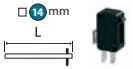
					630	800
Rated thermal current	Ith	40°C in ambient at		A	630	800
Rated insulation voltage	Ui			V	1000	1000
Rated impulse withstand Voltage	Uimp			kV	12	12
AC Rated operational current*(1)	Ie	Ue 400V	AC21A	A	630	800
(Rated operational frequency 50/60 Hz)		Ue 400V	AC22A	A	630	800
Rated breaking capacity		400V	AC23A	A	5000	6400
Rated making capacity		400V	AC23A	A	6300	8000
Short circuit behavior						
Short circuit making capacity *(2)	Icm		KA(peak)		26	26
Short time with stand current(1 sec)	Icw		KA rms		16	16
Mechanical Operations *(3)			Cycles		5000	5000
Maximum Al Cable with lug / Bus Bar			Sq.mm		2x240 / 2x30x8	

*(1) Other voltages and /or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50 ms.-100 ms.)
*(3) Please consult us for more operations
*(4) For DC values please consult

Motorized unit kit

Voltage supply *(4)		230 Vac
Operating voltage range	ΔV	0,85*V to 1,15*V
Operating voltage range according to IEC 60947-6	ΔV	0,95*V to 1,10*V
Cable of voltage supply	mm^2	1,5 - 2,5
Cable section area Input & MODBUS Signals	mm^2	0,5 - 1,5
Cable section area Outputs	mm^2	0,5 - 1,5
Inrush Current	A	11
Nominal Current during operation	A	3,9
Use current (Irms)	A	0,041
Use current (Imax)	A	0,275
Protective Fuse | Reference F4 AL250 V (Littel fuse)	A	4
Operating time	S	0,15
Number of MU operations + S5F Size 2	Cycles	5000
Operation Frecuency (0-I-0-II-0) according to IEC 60947-3	Cycles/hour	60
Working temperature range	T° 85% Un	-25°C ...+55°C
	T° 115% Un	-25°C ...+55°C
Transportation and storage temperature		-40°C ...+70°C
UM weight	kg	4,4

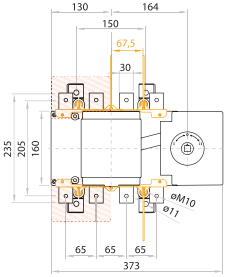
Accessories

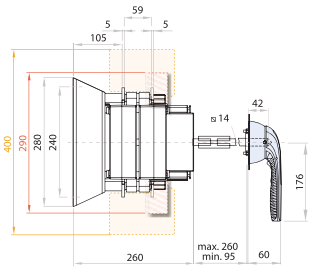


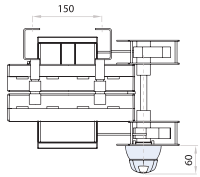
Direct Handle	External Handle	Auxiliary Contacts		Terminal Shrouds*(P)	Phase Barrier*(P)		Bridging Links	
Code	Included shaft (L-239mm) Code	1 NO+1NC Code	2 NO+2NC Code	1 Kit for input or output Frontal poles only	1kit for input or output 3P	4P	Code 3P	4P
D5LLI22	D5LLA21	DS-AU11	DS-AU12	DS-CU21	DS-PB22	DS-PB21	D5LPC25	D5LPC26

*(p) Accessories not compatible with each other.

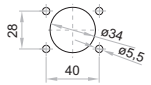
Dimensions (mm)





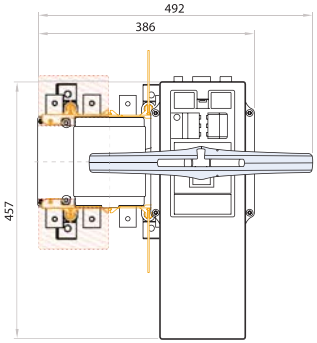


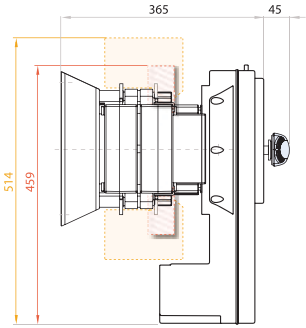
Door drilling for external handle

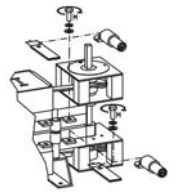


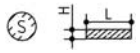
Interior

With Motorized Unit









S max (Cu)	H max (Cu)	L max (Cu)		M
mm^2	mm	mm		Nxm
2x240	2x5	40	M10	24

Series S5F

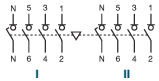
Changeover switches 3P - 3P+N

Size 2

A 630 | 800

	CODE - 630A *(c)	CODE - 800A *(c)
3P	S5F06303PJ0	S5F08003PN0
3P + N	S5F06303NJ0	S5F08003NN0

	CODE - 630A *(cr)	CODE - 800A *(cr)
3P	S5F06303PJC	S5F08003PNC
3P + N	S5F06303NJC	S5F08003NNC



CODE *(u)

UM-C25230M

MOTORIZED KIT AVAILABLE KIT UM SEE UMKIT

*(c) Changeover manual or motorized by adding UM. Please indicate in your order both changeover and handle codes as these entities are managed separately. A standard shaft is included with the handle (please see next page).

*(u) Motorized unit Kit - Manual handle is provided to operate during emergency or maintenance only.

*(cr) Changeover ready to motorize. Please indicate in your order both changeover and UM codes as both these units are managed separately.

Technical Information

CE IEC

According to IEC / 60947-3

Changeover Switch

					630	800
Rated thermal current	Ith	40°C in ambient at		A	630	800
Rated insulation voltage	Ui			V	1000	1000
Rated impulse withstand Voltage	Uimp			kV	12	12
AC Rated operational current*(1)	Ie	Ue 400V	AC21A	A	630	800
(Rated operational frequency 50/60 Hz)		Ue 400V	AC22A	A	630	800
Rated breaking capacity		400V	AC23A	A	5000	6400
Rated making capacity		400V	AC23A	A	6300	8000
Short circuit behavior						
Short circuit making capacity *(2)	Icm		KA(peak)		26	26
Short time with stand current(1 sec)	Icw		KA rms		16	16
Mechanical Operations *(3)			Cycles		5000	5000
Bar(Thickness / Width) (mm)					2x40x8	

*(1) Other voltages and /or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50 ms.-100 ms.)
*(3) Please consult us for more operations
*(4) For DC values please consult

Motorized unit kit

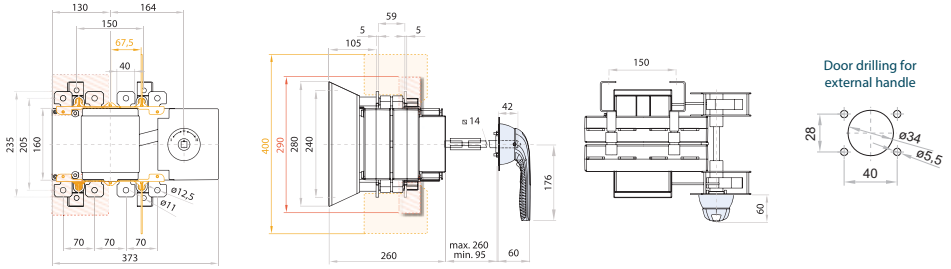
Voltage supply *(4)		230 Vac
Operating voltage range	ΔV	0,85*V to 1,15*V
Operating voltage range according to IEC 60947-6	ΔV	0,95*V to 1,10*V
Cable of voltage supply	mm²	1,5 - 2,5
Cable section area Input & MODBUS Signals	mm²	0,5 - 1,5
Cable section area Outputs	mm²	0,5 - 1,5
Inrush Current	A	11
Nominal Current during operation	A	3,9
Use current (Irms)	A	0,041
Use current (Imax)	A	0,275
Protective Fuse | Reference F4 AL250 V (Littel fuse)	A	4
Operating time	S	0,15
Number of MU operations + S5F Size 2	Cycles	5000
Operation Frecucency (0-I-0-II-0) according to IEC 60947-3	Cycles/hour	60
Working temperature range	T° 85% Un	-25°C ...+55°C
	T° 115% Un	-25°C ...+55°C
Transportation and storage temperature		-40°C ...+70°C
UM weight	kg	4,4

Accessories

Direct Handle	External Handle	Auxiliary Contacts		Terminal Shrouds*(P)	Phase Barrier*(P)		Bridging Links	
Code	Included shaft (L-239mm) Code	1 NO+1NC Code	2 NO+2NC Code	1 Kit for input or output Frontal poles only	1kit for input or output 3P	4P	Code 3P	4P
D5LLI22	D5LLA21	DS-AU11	DS-AU12	DS-CU21	DS-PB22	DS-PB21	D5LPC25	D5LPC26

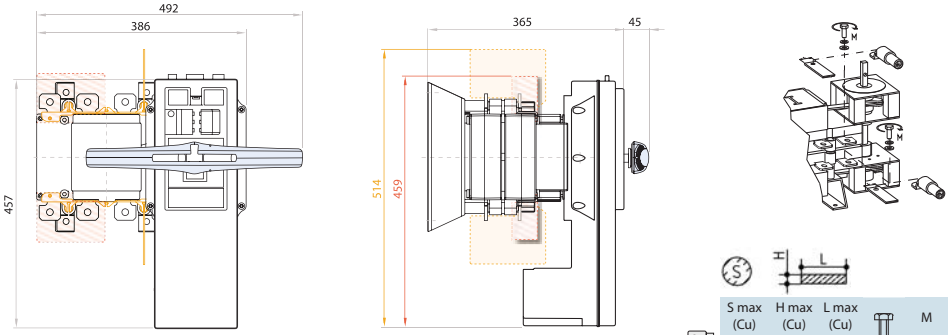
*(p) Accessories not compatible with each other.

Dimensions (mm)



Interior

With Motorized Unit



	S max (Cu)	H max (Cu)	L max (Cu)		M
	mm²	mm	mm		Nxm
630 A	2x240	2x8	40	M10	24
800 A	2x240	2x8	45	M10	24

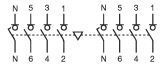
Series S5F
Changeover switches 3P - 3P+N

Size 3
A 1000 | 1250C

MOTORIZED KIT AVAILABLE KIT UM SEE UMKIT

	CODE-1000A *(c)	CODE-1250A *(c)
3P	S5F10003PC0	S5F12503PC0
3P + N	S5F10003NC0	S5F12503NC0

	CODE-1000A *(cr)	CODE-1250A *(cr)
3P	S5F10003PCC	S5F12503PCC
3P + N	S5F10003NCC	S5F12503NCC



CODE *(u)
UM-C35230M

*(c) Changeover manual or motorized by adding UM. Please indicate in your order both changeover and handle codes as these entities are managed separately. A standard shaft is included with the handle (please see next page).

*(u) Motorized unit Kit - Manual handle is provided to operate during emergency or maintenance only.

*(cr) Changeover ready to motorize. Please indicate in your order both changeover and UM codes as both these units are managed separately.

Technical Information

CE IEC

According to IEC / 60947-3

Changeover Switch

					1000	1250
Rated thermal current	Ith	in ambient at 40°C		A	1000	1250
Rated insulation voltage	Ui			V	1000	1000
Rated impulse withstand Voltage	Uimp			kV	12	12
AC Rated operational current *(1)	Ie	Ue 400V	AC21A	A	1000	1250
Rated operational frequency		Ue 400V	AC22A	A	1000	1250
Rated breaking capacity		400V	AC23A	A	8000	8000
Rated making capacity		400V	AC23A	A	10000	10000
Short circuit behavior						
Short circuit making capacity *(2)		Icm	KA(peak)		60	60
Short time with stand current(1 sec)		Icw	KA rms		25	25
Mechanical Operations *(3)			Cycles		3000	3000

*(1) Other voltages and /or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50 ms.-100 ms.)
*(3) Please consult us for more operations
*(4) For DC values please consult

Motorized unit kit

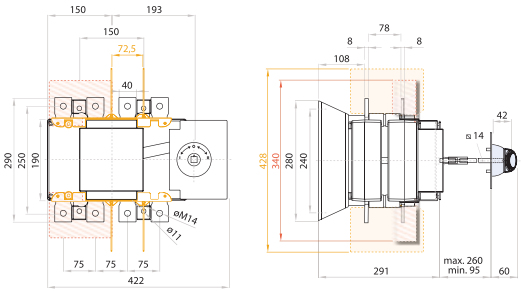
Voltage supply *(4)		230 Vac
Operating voltage range	ΔV	0,85*V to 1,15*V
Operating voltage range according to IEC 60947-6	ΔV	0,95*V to 1,10*V
Cable of voltage supply	mm^2	1,5 - 2,5
Cable section area Input & MODBUS Signals	mm^2	0,5 - 1,5
Cable section area Outputs	mm^2	0,5 - 1,5
Inrush Current	A	11
Nominal Current during operation	A	3,9
Use current (Irms)	A	0,041
Use current (Imax)	A	0,275
Protective Fuse | Reference F4 AL250 V (Littel fuse)	A	4
Operating time	S	0,15
Number of MU operations + S5F Size 3	Cycles	3000
Operation Frecuency (0-I-0-II-0) according to IEC60947-3	Cycles/hour	20
Working temperature range	T° 85% Un	-25°C ...+55°C
	T° 115% Un	-25°C ...+55°C
Transportation and storage temperature		40°C ...+70°C
UM weight	kg	4,4

Accessories

Direct Handle	External Handle	Auxiliary Contacts		Terminal Shrouds *(P)	Phase Barrier *(P)		Bridging Links	
Code	Included shaft (L-239mm) Code	1 NO+1NC Code	2 NO+2NC Code	1 Kit for input or output Frontal poles only	1kit for input or output 3P	4P	Code 3P	4P
D5LLI32	D5LLA31	DS-AU11	DS-AU12	DS-CU31	DS-PB32	DS-PB31	DS-PF32	DS-PF31

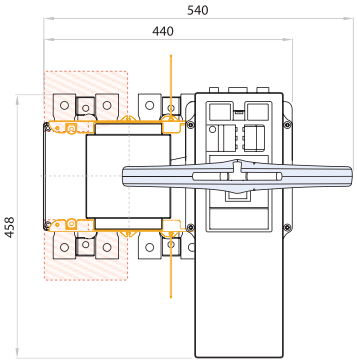
*(p) Accessories not compatible with each other.

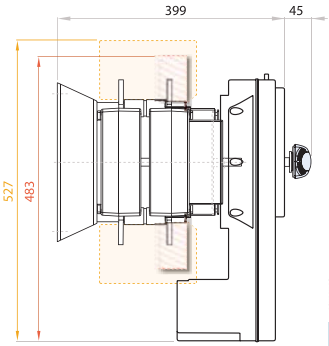
Dimensions (mm)

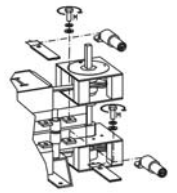


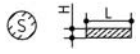
Interior

With Motorized Unit









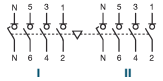
S max (Cu)	H max (Cu)	L max (Cu)		M
mm^2	mm	mm		Nxm
2x300	2x10	50	M14	45

Series S5F
Changeover switches 3P - 3P+N

Size 4
A 1250 | 1600

	CODE - 1250A *(c)	CODE - 1600A *(c)
3P	S5F12503PS0	S5F16003PS0
3P + N	S5F12503NS0	S5F16003NS0

CODE *(u): UM-C45230M



*(c) Changeover manual or motorized adding the UM. Please indicate in your order both changeover and handle codes as these entities are managed separately. A standard shaft is included with the handle (please see next page).

*(u) Motorized unit Kit - Manual handle is provided to operate during emergency or maintenance only.

Technical Information

According to IEC / 60947-3

Changeover Switch

					1250	1600
Rated thermal current	Ith	in ambient at 40°C		A	1250	1600
Rated insulation voltage	Ui			V	1000	1000
Rated impulse withstand Voltage	Uimp			kV	12	12
AC Rated operational current *(1)	Ie	Ue 400V	AC21A	A	1250	1600
(Rated operational frequency 50/60 Hz)		Ue 400V	AC22A	A	1250	1600
Rated breaking capacity		400V	AC23A	A	8000	8000
Rated making capacity		400V	AC23A	A	10000	10000
Short circuit behavior						
Short circuit making capacity *(2)	Icm		KA(peak)		60	60
Short time withstand current(1 sec)	Icw		KA rms		25	50
Mechanical Operations *(3)			Cycles		3000	3000

*(1) Other voltages and/or utilization categories. Please consult
*(2) Without limiting protective device (short-circuit maintained 50 ms.-100 ms.)
*(3) Please consult us for more operations
*(4) For DC values please consult

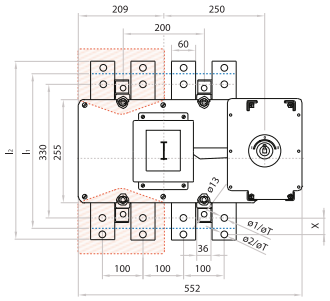
Motorized unit kit

Voltage supply *(4)		230 Vac
Operating voltage range	ΔV	0,9*V to 1,10*V
Operating voltage range according to IEC 60947-6	ΔV	0,95*V to 1,10*V
Cable of voltage supply	mm²	1,5 - 2,5
Cable section area Input & MODBUS Signals	mm²	0,5 - 1,5
Cable section area Outputs	mm²	0,5 - 1,5
Inrush Current	A	11
Nominal Current during operation	A	3,9
Use current (Irms)	A	0,041
Use current (Imax)	A	0,275
Protective Fuse | Reference F4 AL250 V (Littel fuse)	A	4
Operating time	S	0,15
Number of MU operations + S5F Size 4	Cycles	3000
Operation Frecucency (0-I-0-II-0) according to IEC 60947-3	Cycles/hour	20
Working temperature range	Ta 85% Un	-25°C ...+55°C
	Ta 115% Un	-25°C ...+55°C
Transportation and storage temperature		40°C ...+70°C
UM weight	kg	4,4

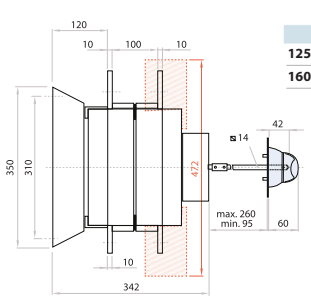
Accessories

Direct Handle	External Handle	Auxiliary Contacts		Terminal Shrouds	Bridging Links	
Code	Included shaft (L-239mm)	1 NO+1NC	2 NO+2NC	1 Kit for input or output Frontal poles only	Code	
	Code	Code	Code		3P	4P
D5LLI32	D5LLA31	DS-AU11	DS-AU12	DS-CU41	D5- PF42	D5-PF41

Dimensions (mm)

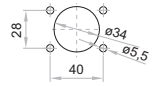


Interior

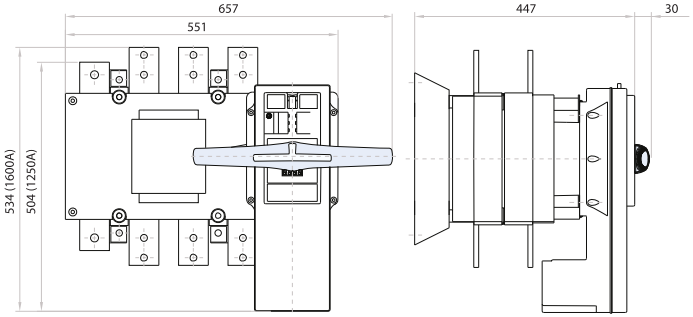


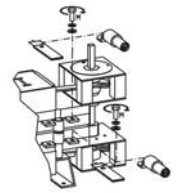
	I¹	I²	X	ø1	øT	ø2	øT
1250 A	381	-	-	16,2	M16	-	-
1600 A	-	441	40	14,1	M14	14,1	M14

Door drilling for external handle



With Motorized Unit





	H max (Cu)	L max (Cu)		M
	mm	mm		Nxm
1250 A	2x7	80	M16	80
1600 A			M14	55

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gorlan Polska
team

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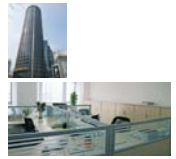

gorlan Shanghai
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