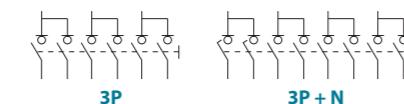
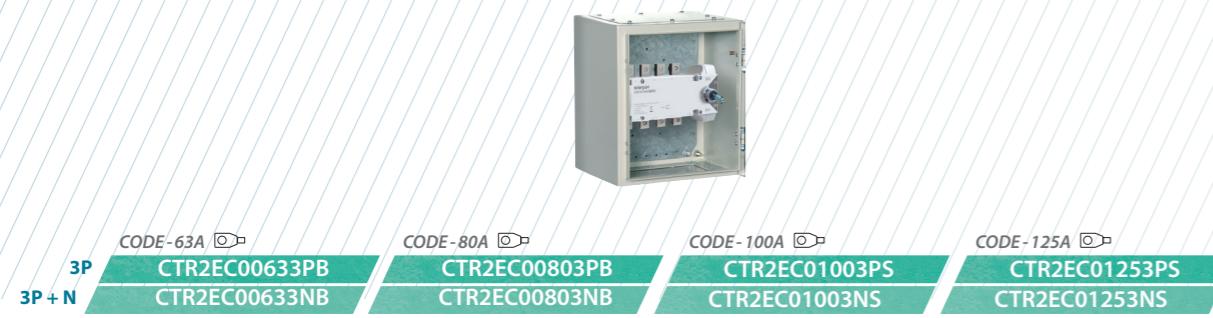


CTR2

Metal enclosed compact changeover switch IP65

3P - 3P+N

Patent pending
EP18382154

Technical information

According to IEC 60947-3
IEC 61439-2

		63	80	100	125		
Rated thermal current I _{th}	in ambient at	40°C	A	63	80	100	125
		50°C	A	63	80	100	125
		60°C	A	63	80	100	125
Rated insulation voltage	U _i	V	1000	1000	1000	1000	
Rated impulse withstand voltage	U _{imp}	kV	8	8	8	8	
AC rated operational current * ⁽¹⁾	I _e	AC21A	A	63	80	100	125
(Rated operational frequency 50/60Hz)	U _e 400V	AC22A	A	63	80	100	125
AC23A	A	63	80	100	125		
Rated breaking capacity	400V, cos φ = 0,35-0,45	A	320	640	800	800	
	400V, cos φ = 0,45		400	800	1000	1000	

⁽¹⁾ Please, inquire for other voltages and/or utilization categories⁽²⁾ Without limiting protective device (short-circuit maintained 50... 100ms)

Accessories



» External handle included shaft
CODE DCELAB1

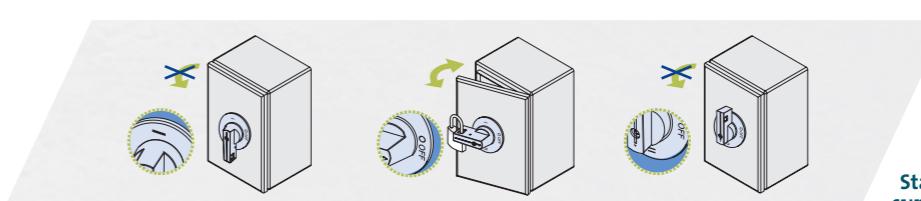
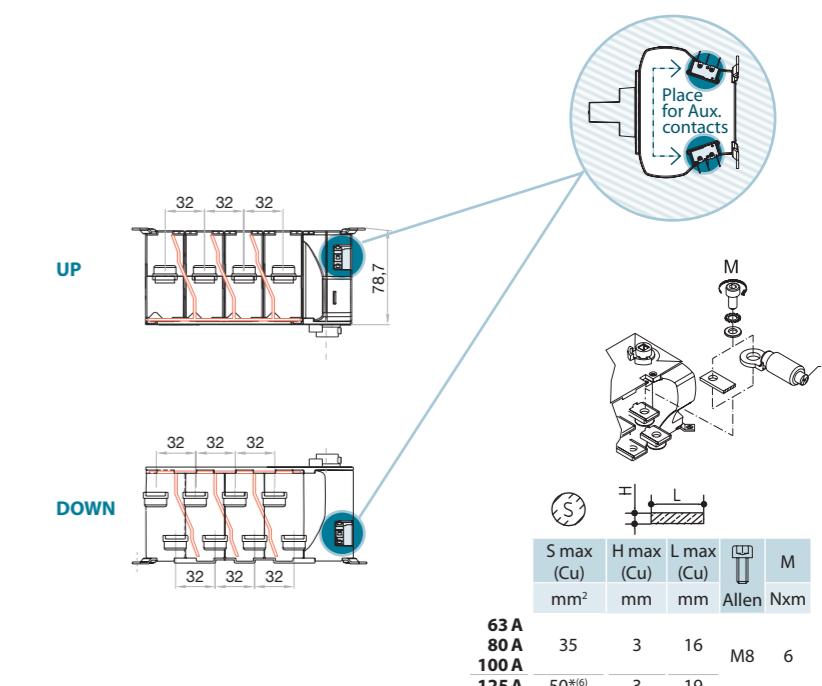
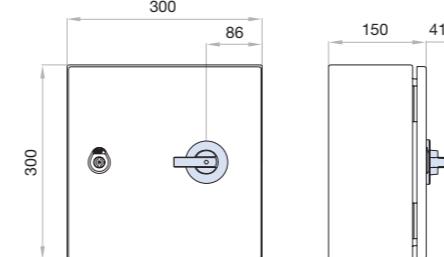


» Auxiliary contacts
1NO+1NC CODE DCEAUB1
Ie = 0,1 A (resistive) at 125 Vac.



» Phase barrier
3P CODE DCECUB1
4P CODE DCECUB2
(1 kit for input or output)

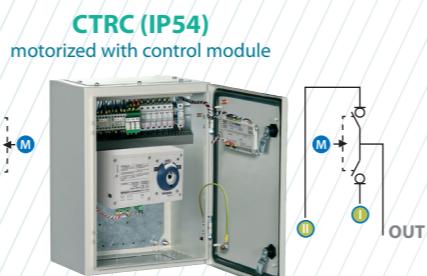
Dimensions (mm)



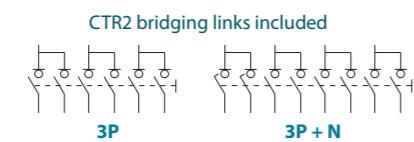
CTR2 | CTRC

Metal enclosed transfer switch IP54-IP66

3P - 3P+N



CTR2 (IP65) manual	3P 3P + N	CODE-125A CTR2FC01253PS CTR2FC01253NS	CODE-160A CTR2FC01603PS CTR2FC01603NS	CODE-200A -	CODE-200A CTR2FC02003PS CTR2FC02003NS
CTR (IP66) motorized	3P 3P + N	CTRFC01253PSAN CTRFC01253NSAN	CTRFC01603PSAN CTRFC01603NSAN	CTRFC02003PSAN CTRFC02003NSAN	-
CTR (IP54) with control module	3P + N	CTRFC01253NSBJ	-	CTRFC02003NSBJ	-



Technical information



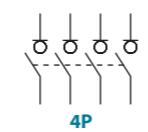
According to IEC 60947-3
IEC 61439-2

		125	160	200	
Rated thermal current	I _{th} in ambient at 40° C	A	125	160	200
Rated insulation voltage	Ui	V	1000	1000	1000
Rated impulse withstand voltage	U _{imp}	kV	8	8	8
AC Rated operational current ⁽¹⁾	I _e	Ue 400V AC21A A	125	160	200
(Rated operational frequency 50 / 60 Hz)		Ue 400V AC22A A	125	160	200
		Ue 400V AC23A A	125	160	160

⁽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 CTRC motorized operations

		125	160	200	
Rated breaking capacity	400V AC22	A	375	480	600
Rated making capacity	400V AC22	A	375	480	600
Short - circuit behaviour					
Short - circuit making capacity ⁽²⁾	I _{cm}	kA (peak)	13	13	13
Short - time withstand current (1 sec.)	I _{cw}	kA rms	7	7	7
Number of mechanical operations (according to the standards, for other values please consult) ⁽³⁾	Cycles	8000	8000	8000	
Maximum weight (3/4 poles)	Kg	Consult			



Also available 4P changeover switches under request, please consult

Size 0
A 125|160|200

Accessories



» External handle included in CTR2
IP65
CODE DSLAN01



» Auxiliary contacts
1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



» Terminal shrouds*⁽¹⁾ for CTR2
UP 3P (1 unit) DS-CU02
DOWN 3P (1 unit) DS-CU05
UP OR DOWN 4P (1 unit) DS-CU04
DS-CU07
(Only frontal side)



» Phase barrier*⁽¹⁾ for CTR2
3P DS-PB01
4P DS-PB02
DS-PB03
(1 kit for input or output)
⁽¹⁾ These accessories aren't compatible with each other

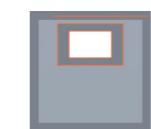


» Bridging links included
CODE D5LPC03 (4 units)



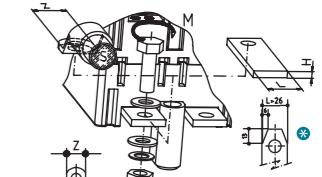
» Safety key lock device for CTR2
Simple CODE D5LCBB1
Double CODE D5LCB1

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

» Control module*^(G1)

- » LCD graphic screen
- » 3 analog inputs for resistive sensors:
 - Oil pressure
 - Coolant temperature
 - Fuel level
- » 5 + 3 digital inputs:
 - 4 programmable, negative
 - 3 programmable, negative, alternative to resistive sensors
 - 1 emergency stop button, positive
- » 6 digital outputs:
 - 6 positive static outputs protected
- » Operation with universal battery 12-24 Vdc

*⁽¹⁾ The control module and its features are subject to change, please consult



	S max (Cu) mm ²	H max (Cu) mm	L max (Cu) mm	T	M	Nxm
CTR2 125A 160A	95	5	25	M8	13	
CTR2 200A	120	5	30	M10	18	

	S max (Cu) mm ²	Z max mm	H max (Cu) mm	L max (Cu) mm	T	M	Nxm
CTR2 200A	240	31	2x5	30	M10	24	

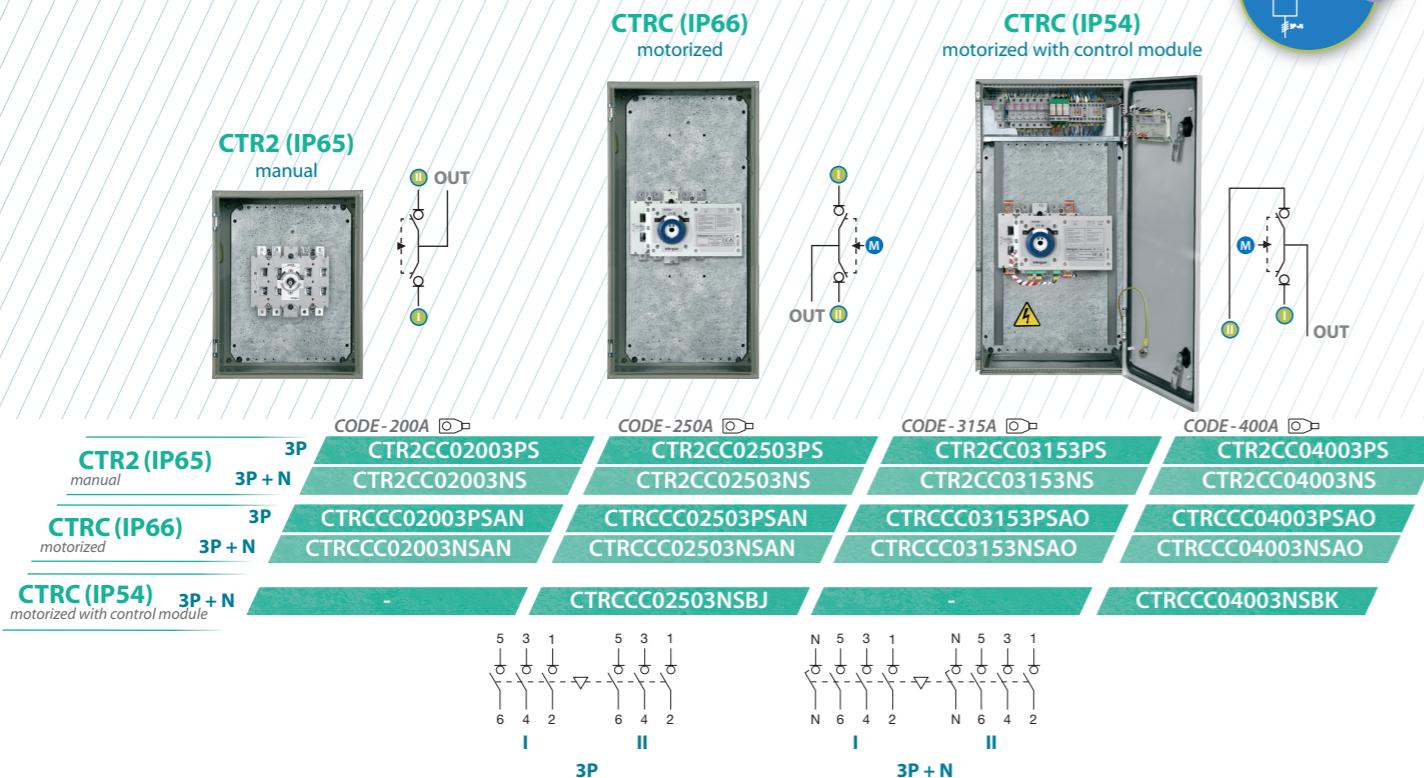


Standard supply CTR2

CTR2 | CTRC

Metal enclosed transfer switch IP54-IP66

3P - 3P+N



Technical information

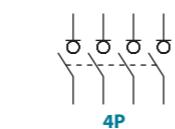


According to IEC 60947-3
IEC 61439-2

	200	250	315	400	
Rated thermal current I _{th} in ambient at 40°C	A 200	A 250	A 315	A 400	
Rated insulation voltage U _i	V 1000	V 1000	V 1000	V 1000	
Rated impulse withstand voltage U _{imp}	kV 8	kV 8	kV 8	kV 8	
AC Rated operational current I _e	Ue 400V AC21A	A 200	A 250	A 315	A 400
(Rated operational frequency 50/60 Hz)	Ue 400V AC22A	A 200	A 250	A 315	A 400 ⁽⁴⁾

*(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 CTRC motorized operations
*(4) AC22B

	200	250	315	400	
Rated breaking capacity	400V AC22	A 600	A 750	A 945	A 1200
Rated making capacity	400V AC22	A 600	A 750	A 945	A 1200
Short - circuit behaviour					
Short - circuit making capacity *(2)	Icm kA (peak)	12	12	12	12
Short - time withstand current (1 sec.) Icw	kA rms	8	8	8	8
Number of mechanical operations (according to the standards, for other values please consult) CTR2 ⁽³⁾					
Maximum weight (3/4 poles)	Kg	Consult			



Also available 4P changeover switches under request, please consult

Size 1
A 200|250|315|400

Accessories



» **External handle** included in CTR2
IP65
CODE DCCLA11



» **Terminal shrouds** for CTR2

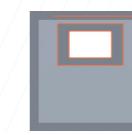
Inputs POS. I 3P	DM2CU12	Inputs POS. II 3P+N	DM2CU11	Common output POS. I&II 3P+N	DM2CU13	Common output 3P+N	DCCU11	Common output 3P+N	DCCU12
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» **Auxiliary contacts**
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



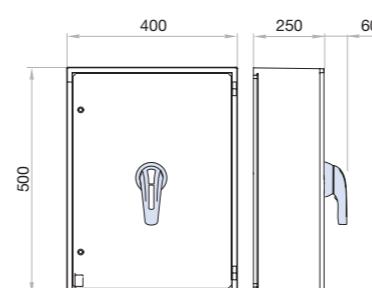
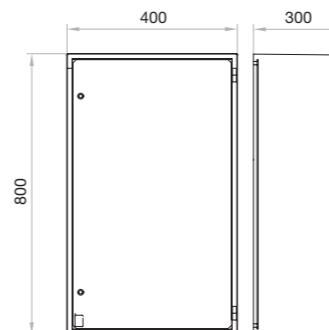
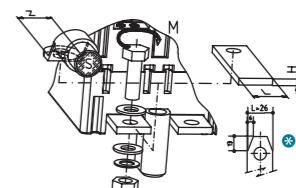
» **Safety key lock device** for CTR2
Simple CODE D5LCB1
Double CODE D5LCEB1
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



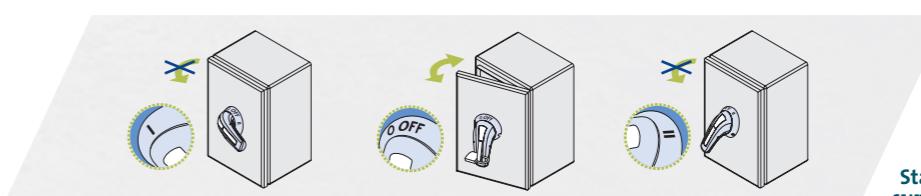
» **Control module**^(G1)

- » LCD graphic screen
 - » 3 analog inputs for resistive sensors:
 - Oil pressure
 - Coolant temperature
 - Fuel level
 - » 5 + 3 digital inputs:
 - 4 programmable, negative
 - 3 programmable, negative, alternative to resistive sensors
 - 1 emergency stop button, positive
 - » 6 digital outputs:
 - 6 positive static outputs protected
 - » Operation with universal battery 12-24 Vdc
- *(G1) The control module and its features are subject to change, please consult

Dimensions (mm)

CTR2
manualCTR
motorized
motorized with control module

S max (Cu) mm ²	Z max mm	H max (Cu) mm	L max (Cu) mm	T Nm	M
240	31	2x5	30	M10	24

Standard
supply CTR2

CTR2 | CTRC

Metal enclosed transfer switch IP54-IP66

3P - 3P+N



CTR2 (IP65) manual	3P	CODE-500A	CTR2CC05003PS
			CTR2CC05003NS
CTR2 (IP66) motorized	3P	CODE-630A	CTR2CC06303PS
			CTR2CC06303NS
CTR2 (IP66) motorized	3P + N	CODE-800A	CTR2CC08003PS
			CTR2CC08003NS

CTR2 (IP54) motorized with control module	3P + N	CODE-500A	CTRCCC05003PSAO
			CTRCCC05003NSAO
			CTRCCC06303PSAO
			CTRCCC06303NSAO
			CTRCCC08003PSAO
			CTRCCC08003NSAO

Technical information



According to IEC 60947-3
IEC 61439-2

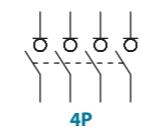
	500	630	800		
Rated thermal current I _{th} in ambient at 40° C	A	500	630	800	
Rated insulation voltage U _i	V	1000	1000	1000	
Rated impulse withstand voltage U _{imp}	kV	12	12	12	
AC Rated operational current * ⁽¹⁾	I _e Ue 400V AC21A	A	500	630	800
(Rated operational frequency 50/60 Hz)	Ue 400V AC22B	A	500	630	800

*⁽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 CTRC motorized operations

	500	630	800
Rated breaking capacity	400V AC22	A	1500 1890 2400
Rated making capacity	400V AC22	A	1500 1890 2400
Short - circuit behaviour			
Short - circuit making capacity * ⁽²⁾	I _{cm}	kA (peak)	20 20 20
Short - time withstand current (1 sec.) I _{cw}		kA rms	13 13 13
Number of mechanical operations (according to the standards, for other values please consult) CTR2 * ⁽³⁾			
Maximum weight (3/4 poles)	Kg	Consult	



Also available 4P changeover switches
under request, please consult

Size 2
A 500|630|800

Accessories



» **External handle** included in CTR2
IP65
CODE DCCLA21



» **Terminal shrouds** for CTR2
Inputs POS. I 3P DM2CU22
Inputs POS. II 3P DM2CU21
Common output 3P+N DCCCU23
Common output 3P+N DCCCU22

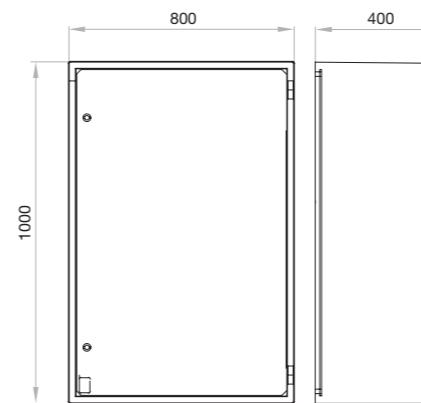
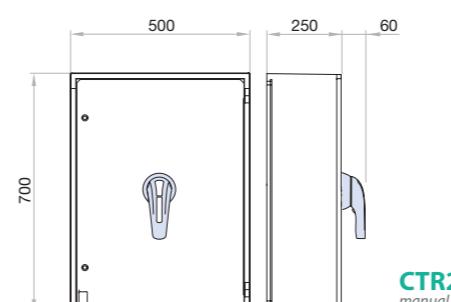


» **Auxiliary contacts**
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02
Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



» **Safety key lock device** for CTR2
Simple CODE D5LCB21
Double CODE D5LCF21
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

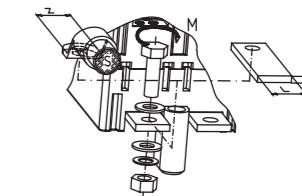
Dimensions (mm)



Control module*(G1)

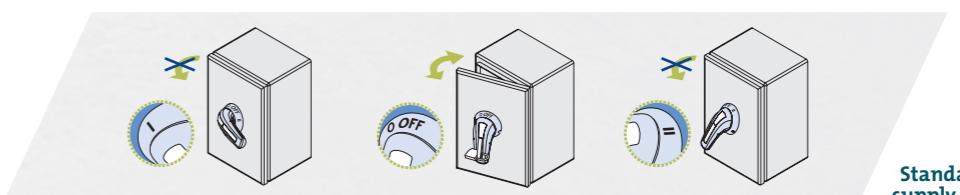
- » LCD graphic screen
- » 3 analog inputs for resistive sensors:
 - Oil pressure
 - Coolant temperature
 - Fuel level
- » 5 + 3 digital inputs:
 - 4 programmable, negative
 - 3 programmable, negative, alternative to resistive sensors
 - 1 emergency stop button, positive
- » 6 digital outputs:
 - 6 positive static outputs protected
 - » Operation with universal battery 12-24 Vdc

*⁽¹⁾The control module and its features are subject to change, please consult



S max (Cu) mm ²	Z max 2x40	H max (Cu) mm	L max (Cu) mm	M Nxm
2x240	45	2x6	45	M12 45

CTR2
motorized
motorized with control module

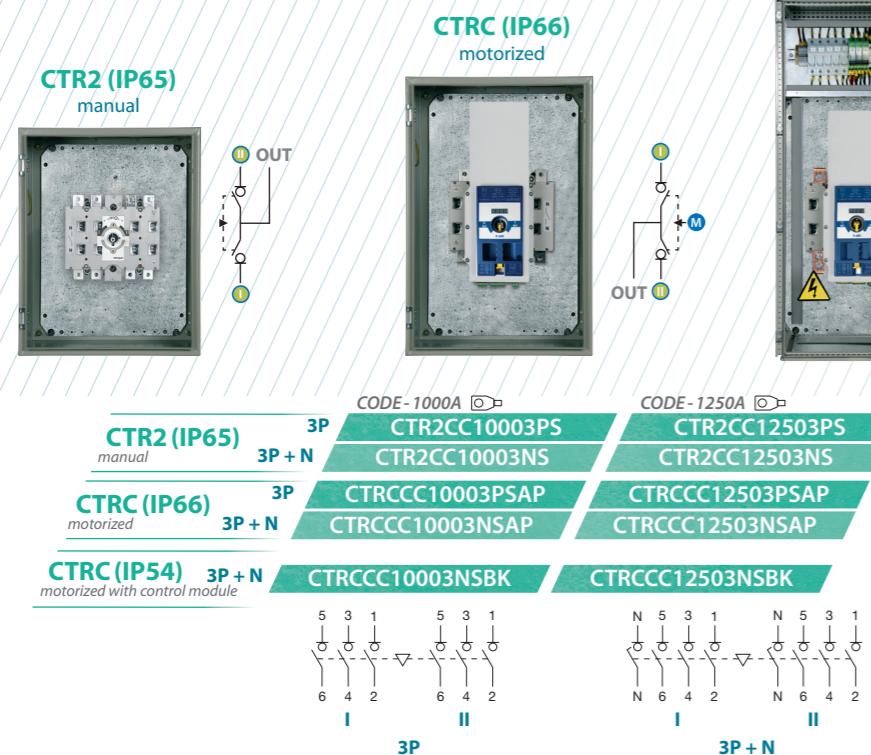


Standard supply CTR2

CTR2 | CTRC

Metal enclosed transfer switch IP54-IP66

3P - 3P+N



Technical information



According to IEC 60947-3
IEC 61439-2

	1000	1250
Rated thermal current I _{th} in ambient at 40° C	A	1000 1250
Rated insulation voltage U _i	V	1000 1000
Rated impulse withstand voltage U _{imp}	kV	12 12
AC Rated operational current * ⁽¹⁾	I _e Ue 400V AC21A	A
(Rated operational frequency 50 / 60 Hz)	Ue 400V AC22B	A
	1000	1250

*⁽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 CTRC motorized operations

Size 3
A 1000|1250

Accessories



» **External handle** included in CTR2
IP65
CODE DCCLA31



» **Terminal shrouds** for CTR2

POS. I 3P	DM2CU32	Inputs POS. II 3P	DM2CU31	POS. I&II 3P+N	DM2CU33	Common output 3P	CCCCU31	3P+N	CCCCU32
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» **Auxiliary contacts**

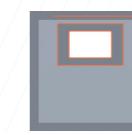
1NO+1NC CODE D5LAU01
2NO+2NC CODE D5LAU02
I_e = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.



» **Safety key lock device** for CTR2

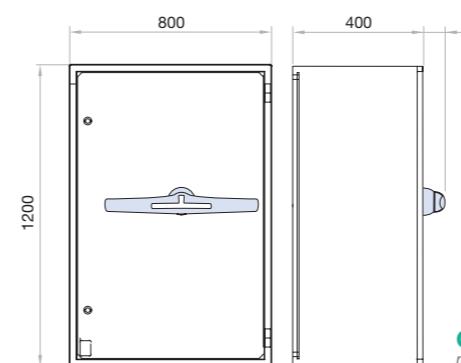
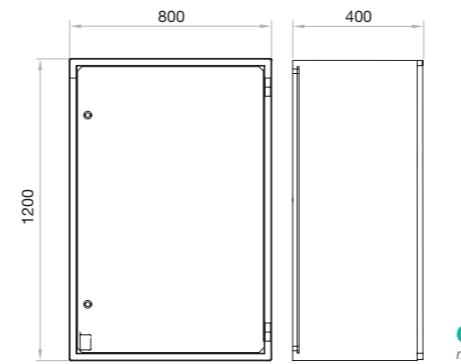
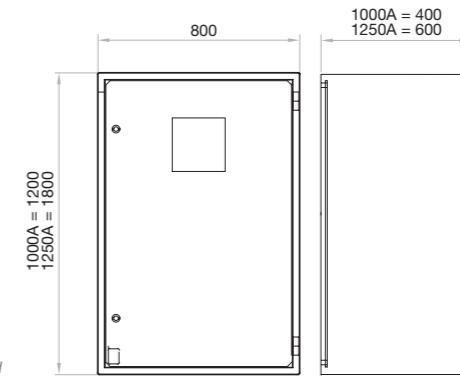
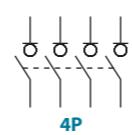
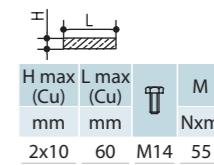
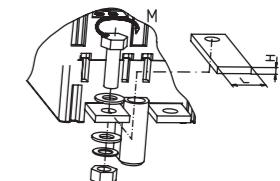
Simple CODE D5LCB31
Double CODE D5LCF31

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

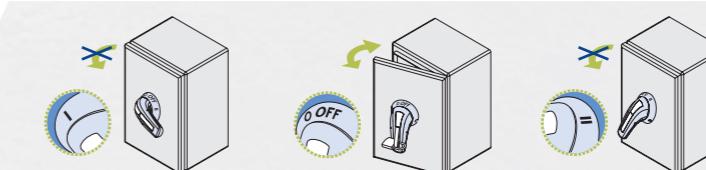
» **Control module***^(G1)

- LCD graphic screen
 - 3 analog inputs for resistive sensors:
 - Oil pressure
 - Coolant temperature
 - Fuel level
 - 5 + 3 digital inputs:
 - 4 programmable, negative
 - 3 programmable, negative, alternative to resistive sensors
 - 1 emergency stop button, positive
 - 6 digital outputs:
 - 6 positive static outputs protected
 - Operation with universal battery 12-24 Vdc
- *^(G1) The control module and its features are subject to change, please consult

Dimensions (mm)

CTR2
manualCTR
motorizedCTR
motorized with control module

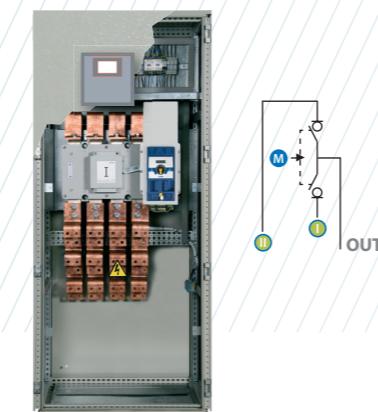
Also available 4P changeover switches
under request, please consult

Standard
supply CTR2

CTR2 | CTRC

Metal enclosed transfer switch IP54-IP66

3P - 3P+N

CTR2 (IP65)
manualCTR2 (IP66)
motorizedCTR2 (IP54)
motorized with control moduleSize 4
A 1600|1800|2000

Accessories



>> External handle included in CTR2

IP65

CODE D5LLA31



>> Terminal shrouds for CTR2

CODE DS-CU41

(1 kit for input or output only frontal side)



>> Bridging links for CTR2

CODE D5LPC42 (4 units)



>> Safety key lock device for CTR2

Simple CODE D5LCB41

Double CODE D5LCF41

For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked



>> Control module*(G1)

> LCD graphic screen

> 3 analog inputs for resistive sensors:

- Oil pressure
- Coolant temperature
- Fuel level

> 5 + 3 digital inputs:

- 4 programmable, negative
- 3 programmable, negative, alternative to resistive sensors
- 1 emergency stop button, positive

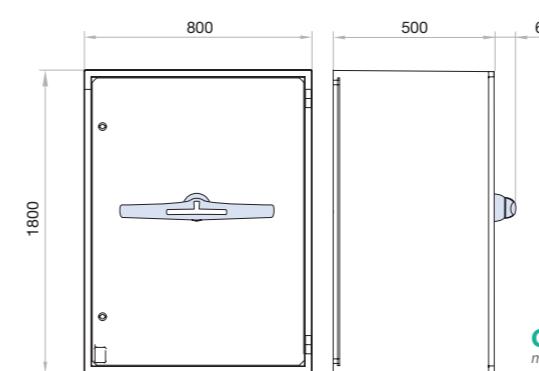
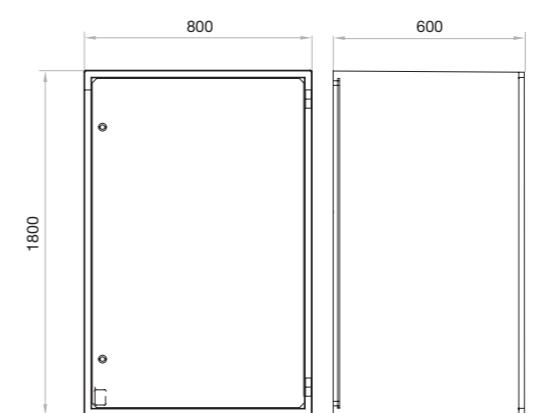
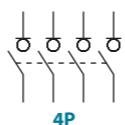
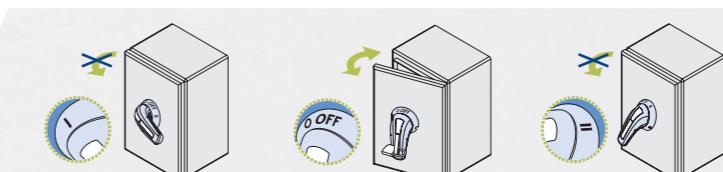
> 6 digital outputs:

- 6 positive static outputs protected

> Operation with universal battery 12-24 Vdc

*(G1) The control module and its features are subject to change, please consult

Dimensions (mm)

CTR2
manualCTR2
motorized
with control moduleAlso available 4P changeover switches
under request, please consultStandard
supply CTR2

Technical information

According to IEC 60947-3
IEC 61439-2

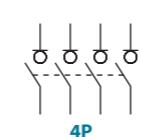
	1600	1800	2000
Rated thermal current Ith in ambient at 40° C	A 1600	A 1800	A 2000
Rated insulation voltage Ui	V 1000	V 1000	V 1000
Rated impulse withstand voltage Uimp	kV 12	kV 12	kV 12
AC Rated operational current *(1)	Ie 400V AC21A	Ie 400V AC22A	Ie 400V AC22A
(Rated operational frequency 50/60 Hz)	A 1600	A 1800	A 2000

*(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 CTRC motorized operations

	1600	1800	2000
Rated breaking capacity 400V AC22	A 4800	A 5400	A 6000
Rated making capacity 400V AC22	A 4800	A 5400	A 6000
Short - circuit behaviour			
Short - circuit making capacity *(2) lcm	kA (peak) 75	kA (peak) 75	kA (peak) 75
Short - time withstand current (1 sec.) lcw	kA rms 50	kA rms 50	kA rms 50
Number of mechanical operations (according to the standards, for other values please consult) CTR2 *(3)	Cycles 3000	Cycles 3000	Cycles 3000
Maximum weight (3/4 poles)	Kg Consultar		

Also available 4P changeover switches
under request, please consult

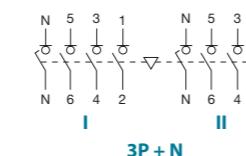
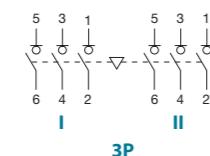
CTR2 | CTRC

Metal enclosed transfer switch IP55

3P - 3P+N

CTR2 (IP55)
manualCTR2 (IP55)
motorized

CTR2 (IP55)	3P	CODE-2000A	④	CTR2FC20003PP	CTR2FC20003NP	CODE-2500A	④	CTR2FC25003PP	CTR2FC25003NP	CODE-3150A	④	CTR2FC31503PP	CTR2FC31503NP
manual	3P + N	CTR2FC20003PP		CTR2FC20003NP		CTR2FC25003PP		CTR2FC25003NP		CTR2FC31503PP		CTR2FC31503NP	
CTR2 (IP55)	3P	CTR2FC20003PPAP		CTR2FC20003NPAP		CTR2FC25003PPAP		CTR2FC25003NPAP		CTR2FC31503PPAP		CTR2FC31503NPAP	
motorized	3P + N	CTR2FC20003NPAP		CTR2FC20003NPAP		CTR2FC25003NPAP		CTR2FC25003NPAP		CTR2FC31503NPAP		CTR2FC31503NPAP	



Technical information



According to IEC 60947-3
IEC 61439-2

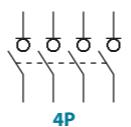
	2000	2500	3150	
Rated thermal current I _{th} in ambient at 40° C	A 2000	2500	3150	
Rated insulation voltage U _i	V 1000	1000	1000	
Rated impulse withstand voltage U _{imp}	kV 8	8	8	
AC Rated operational current I _e Ue 400V AC21A	A 2000	2500	3150	
(Rated operational frequency 50 / 60 Hz)	Ue 400V AC22B	A 2000	2500	2500

*(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 CTRC motorized operations

	2000	2500	3150	
Rated breaking capacity	400V AC22	A 6000	7500	9450
Rated making capacity	400V AC22	A 6000	7500	9450
Short - circuit behaviour				
Short - circuit making capacity *(2)	Icm kA (peak)	100	100	100
Short - time withstand current (1 sec.) Icw	kA rms	50	50	50
Number of mechanical operations (according to the standards, for other values please consult) CTR2 *(3)				
Maximum weight (3/4 poles)	Kg	Consult		



Also available 4P changeover switches
under request, please consult

Size 5
A 2000|2500|3150
④

Accessories



» External handle included in CTR2

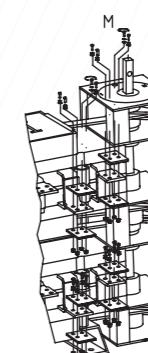
(Slider bar)
CODE D5LEN51

» Safety key lock device for CTR2

Simple CODE D5LCB41
Double CODE D5LCF41

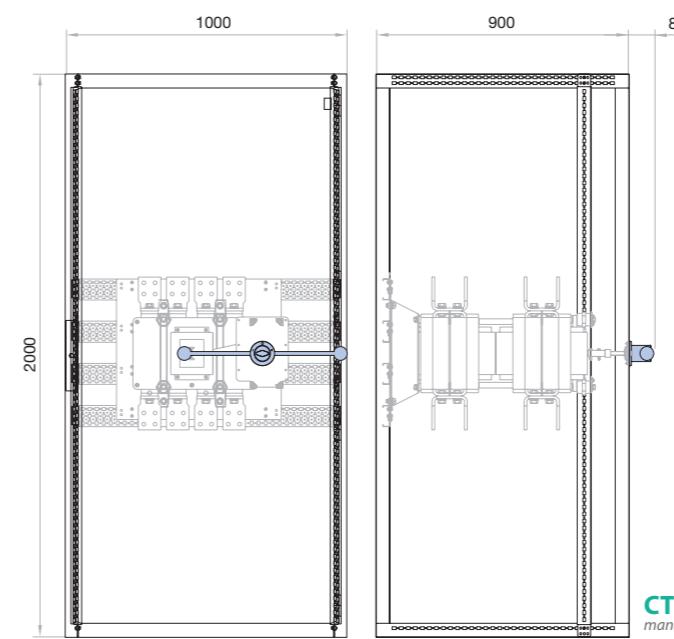
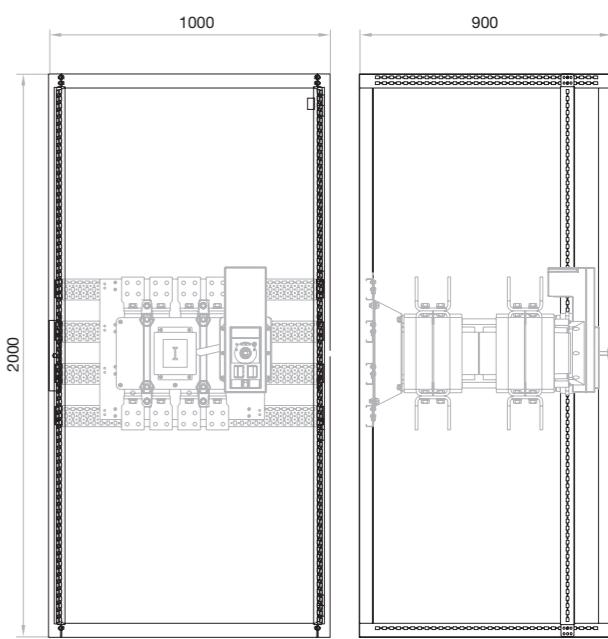
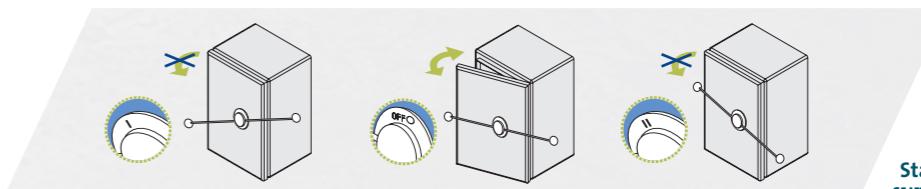
For external handle, lock the handle by means of a key in position "OFF" (under request, in "ON"), the key can only be removed with the handle locked

» Auxiliary contacts

1NO+1NC CODE DS-AU11
2NO+2NC CODE DS-AU12Ie = 16 A (resistive loads)
4 A (inductive loads) at 250 Vac.

	H max (Cu) mm	L max (Cu) mm	M
2000 A	4x10	80	M12 45
2500 A			
3150 A		100	

Dimensions (mm)

CTR2
manualCTR
motorizedStandard
supply CTR2