

## DC chokes, type TZS

### 2TDC series

#### Description and functions:

The choke is instrumental in DC current filtering in DC-link.

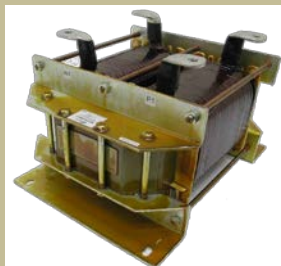
**SKY2TDC300-1,2A**



#### TECHNICAL PARAMETERS :

Nominal operating voltage	Un : 1200 Vdc
Extent of operating currents	In : 300 A
Thermal class : F	
Protection class : IP00	

**SKY2TDC300-1,2A-rev.1**



#### TECHNICAL PARAMETERS :

Nominal operating voltage	Un : 1200 Vdc
Extent of operating currents	In : 300 A
Thermal class : F	
Protection class : IP00	

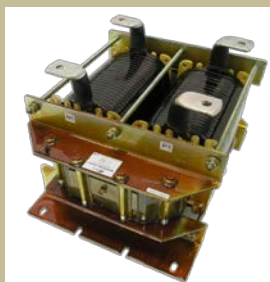
**SKY2TDC320-1,2A**



#### TECHNICAL PARAMETERS :

Nominal operating voltage	Un : 1200 Vdc
Extent of operating currents	In : 320 A
Thermal class : F	
Protection class : IP00	
Extent of operating temperature : -40°C + 55°C	

**SKY2TDC320-1,2A-rev.1**



#### TECHNICAL PARAMETERS :

Nominal operating voltage	Un : 1200 Vdc
Extent of operating currents	In : 320 A
Thermal class : F	
Protection class : IP00	
Extent of operating temperature : -40°C + 55°C	

SKY2TDC50-0,5



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200 Vdc  
Extent of operating currents In : 50 A  
Thermal class : F  
Protection class : IP00

SKY2TDC50-0,5CH



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200 Vdc  
Extent of operating currents In : 50 A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -30°C + 40°C

SKY2TDC20-2



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 20A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

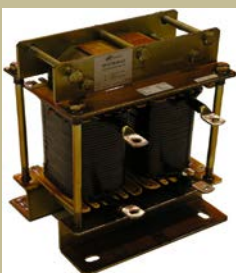
SKY2TDC40-3,5



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 40A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

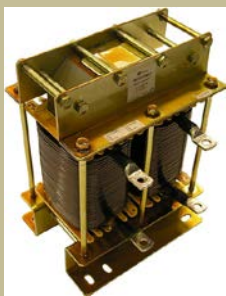
SKY2TDC40-3,6



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 40A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

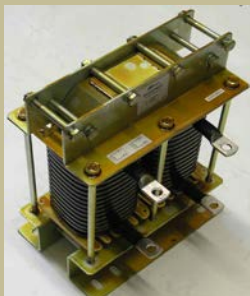
SKY2TDC90-2,7



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 90A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

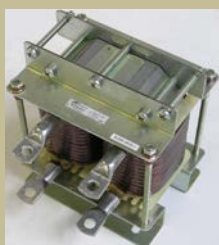
SKY2TDC100-0,6



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 100A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

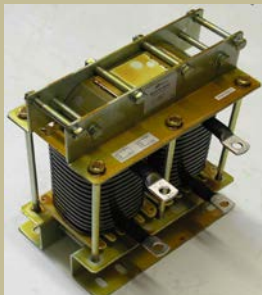
SKY2TDC120-0,4



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 120A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

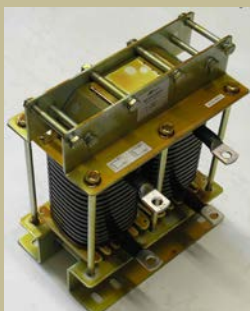
SKY2TDC180-0,2



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 180A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

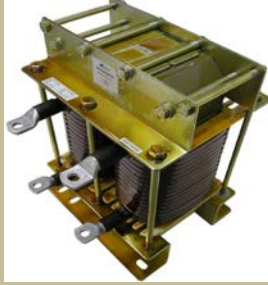
SKY2TDC180-0,4



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 180A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

SKY2TDC180-0,76



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 180A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

SKY2TDC300-0,36



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 300A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

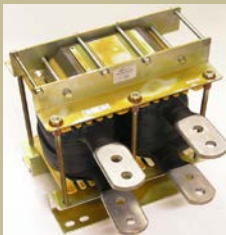
SKY2TDC600-0,1



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 600A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

SKY2TDC1200-0,045



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200Vdc  
Extent of operating currents In : 1200A  
Thermal class : F  
Protection class : IP00  
Extent of operating temperature : -10°C + 40°C

SKY2TDC32-0,45



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200 Vdc  
Extent of operating currents In : 32 A  
Thermal class : F  
Protection class : IP54

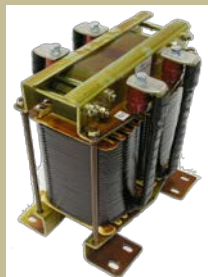
SKY2TDC100-9,5B



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 750 Vdc  
Extent of operating currents In : 100 A  
Thermal class : F  
Protection class : IP00

SKY2TDC150-1,5-5kHz



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200 Vdc  
Extent of operating currents In : 150 A  
Thermal class : F  
Protection class : IP00

SKY2TDC620-1,3



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 1200 Vdc  
Extent of operating currents In : 620 A  
Thermal class : F  
Protection class : IP00

SKY2TDC100-0,18-20/50kHz



**TECHNICAL PARAMETERS :**

Extent of operating currents In : 100 A  
Thermal class : F  
Protection class : IP54

SKY2TDC200-0,3



**TECHNICAL PARAMETERS :**

Nominal operating voltage Un : 600 Vdc  
Extent of operating currents In : 200 A  
Thermal class : F  
Protection class : IP00



**TECHNICAL PARAMETERS :**

Extent of operating currents In : 250 A  
 Thermal class : F  
 Protection class : IP00



**TECHNICAL PARAMETERS :**

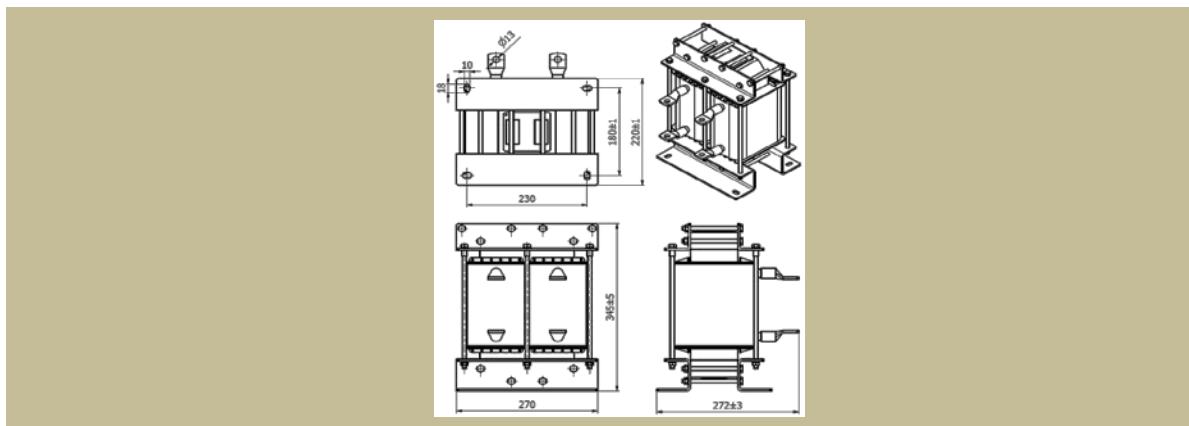
Nominal operating voltage Un : 1200 Vdc  
 Extent of operating currents In : 900 A  
 Thermal class : F  
 Protection class : IP00

Type	Nominal current [A]	Nominal inductance [mH]	Weight [kg]	Conductor cross section [mm]	basic dimensions [mm]					
					A	B	C	D	E	H
					length	height	width	pitch	pitch	other
SKY2TDC300-1,2A	300	1,2	54	oko 150x12	270	345	272	230	180	10x18
SKY2TDC300-1,2A-rev.1	300	1,2	56	oko 150x10	370	244	270	340	225	9x15
SKY2TDC320-1,2A	320	1,2	56	oko 150x10	370	244	270	340	225	9x15
SKY2TDC320-1,2A-rev.1	320	1,2	56	oko 150x10	370	244	270	340	225	9x17
SKY2TDC50-0,5	50	0,5	10	radox 16 mm	204	117	191	190	120	9x11,5
SKY2TDC50-0,5CH	50	0,5	10	radox 16 mm	204	137	191	190	120	9x11,5
SKY2TDC20-2	20	2	1,7	radox 2,5mm	105,2	84,8	90	85,2	70	6x10
SKY2TDC40-3,5	40	3,5	4,8	CSA 10mm	130	185	118	90	80	9x15
SKY2TDC40-3,6	40	3,6	13	oko 25x8	180	238,5	174,5	140	120	9x15
SKY2TDC90-2,7	90	2,7	19	oko 50x10	225	293	212	185	136	10x18
SKY2TDC100-0,6	100	0,6	16	oko 50x10	225	295	170	185	110	10x18
SKY2TDC120-0,4	120	0,4	7,6	oko 25x8	150	206	140,8	110	81	9x15
SKY2TDC180-0,2	180	0,2	12	oko 95x12	180	238,5	154,5	140	100	9x15
SKY2TDC180-0,4	180	0,4	22	oko 95x12	225	295	170	185	11	10x18
SKY2TDC180-0,76	180	0,76	22	oko 95x10	225	293	235	185	151	10x18
SKY2TDC300-0,36	300	0,36	33	oko 120x10	260	345	241,6	230	150	10x18
SKY2TDC600-0,1	600	0,1	38	oko 240x12	260	345	260	230	165	10x18
SKY2TDC1200-0,045	1200	0,045	59	oko 500x16	320	390	350,5	280	200	13x20
SKY2TDC32-0,45	32	0,45	3,5	radox 6 mm	172	109	109	150	65	Ø8,5
SKY2TDC100-9,5 B	100	9,5	72	20x3 Ø10	320	393	243	280	170	13x20
SKY2TDC150-1,5-5kHz	150	1,5	45	-	270	318	205	240	165	10x18
SKY2TDC620-1,3	620	1,3	206	oko 300x12	350	720	369	310	239	13x20
SKY2TDC100-0,18-20/50kHz	100	0,18	6,3	CSA 16 mm	172	109	129	150	85	Ø8,5
SKY2TDC200-0,3	200	0,3	12,5	oko 70x10	180	237	185	140	110	9x15
SKY2TDC250-0,15	250	0,15	10	oko 120x10	150	184	175	128	94	8x15
SKY2TDC900-1,2_a	900	1,2	340	oko 800x16x2	360	719	526	320	350	13x20

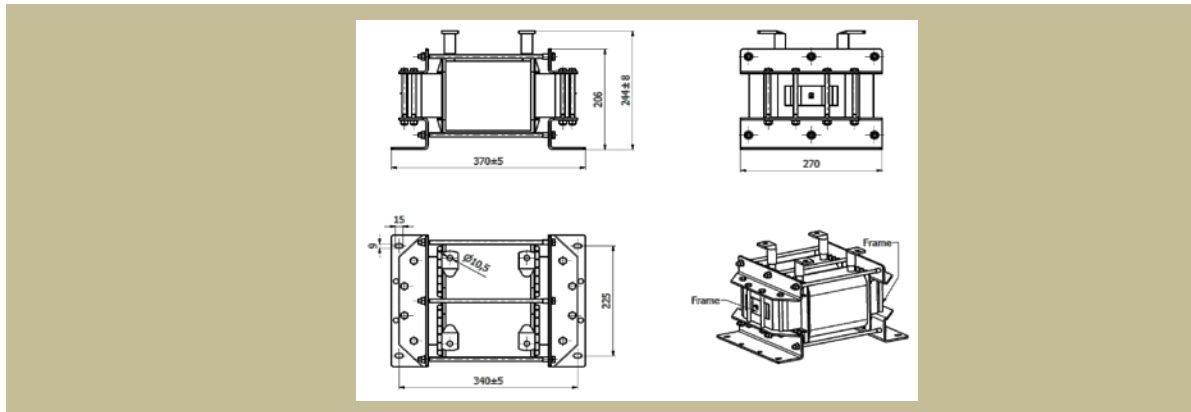
\* After a deal there is a possibility of modification of the filter construction according to the customer's request.

1\*) Měření unikajícího proudu bylo provedeno podle normy ČSN EN 60950

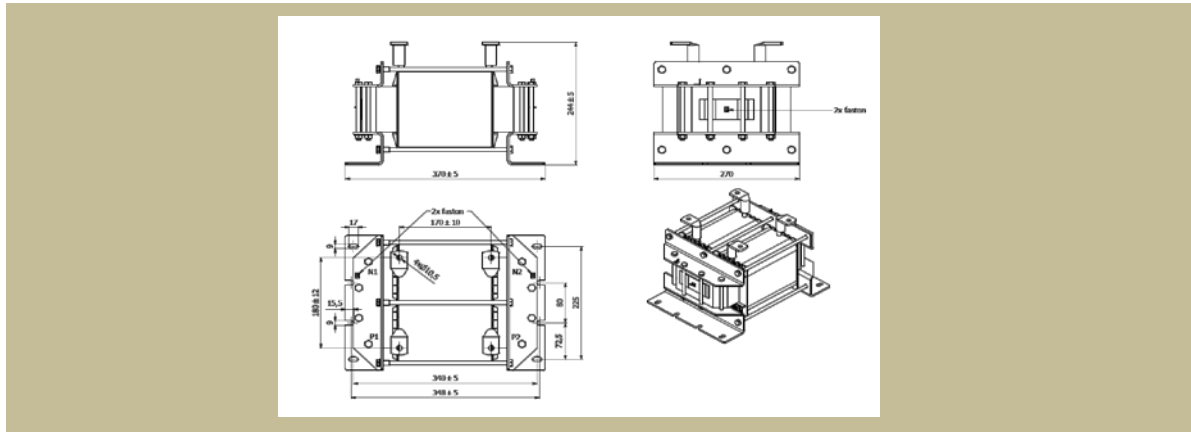
**Dimensional drawing : SKY2TDC320-1,2A**



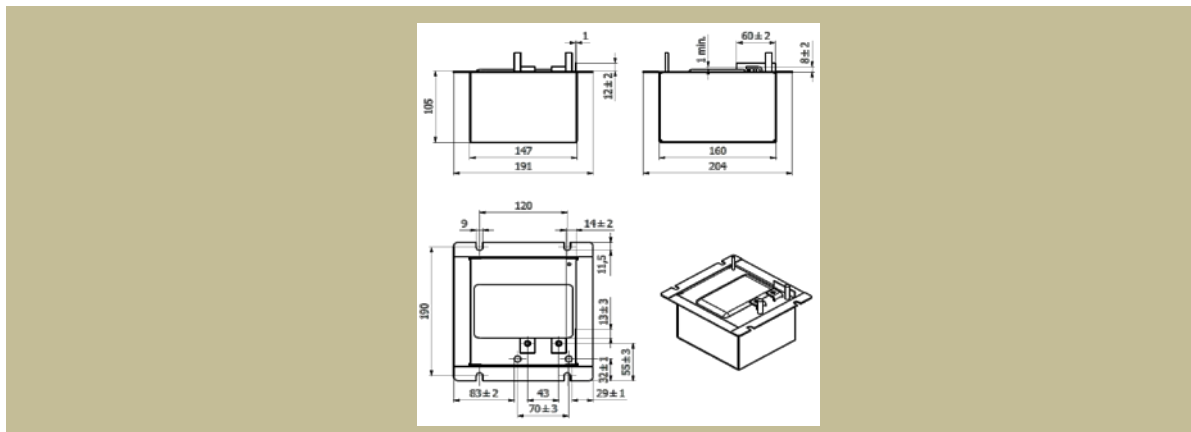
**Dimensional drawing : SKY2TDC300-1,2A-rev.1, SKY2TDC320-1,2A**



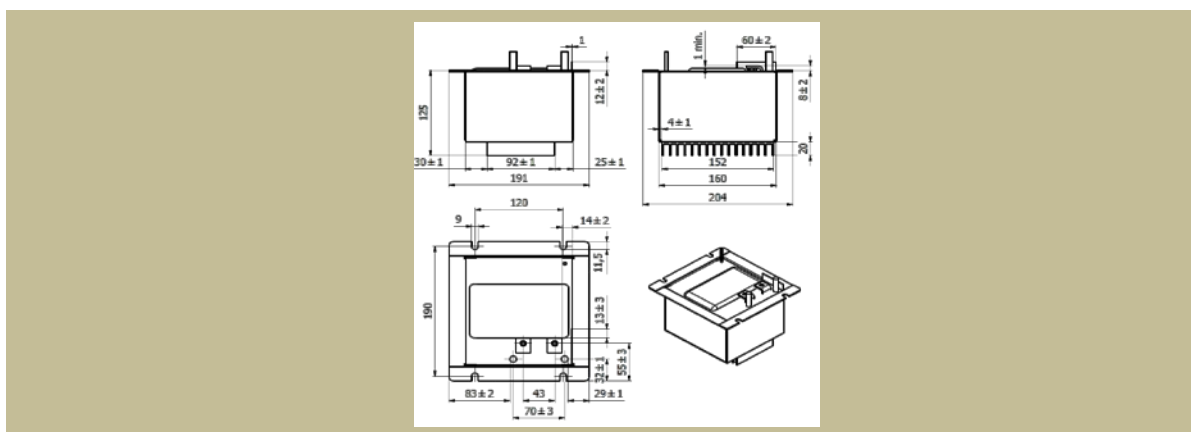
**Dimensional drawing : SKY2TDC320-1,2A-rev.1**



**Dimensional drawing : SKY2TDC50-0,5**

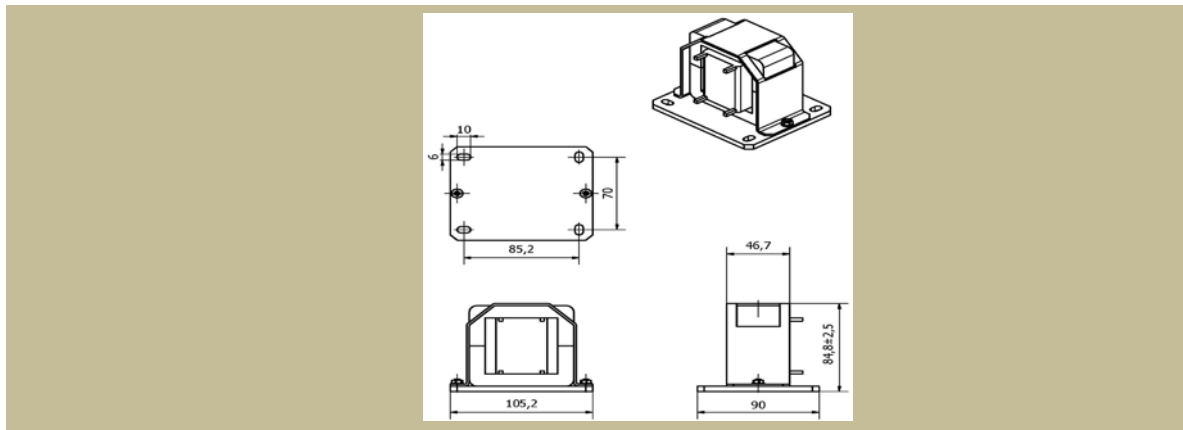


**Dimensional drawing : SKY2TDC50-0,5CH**

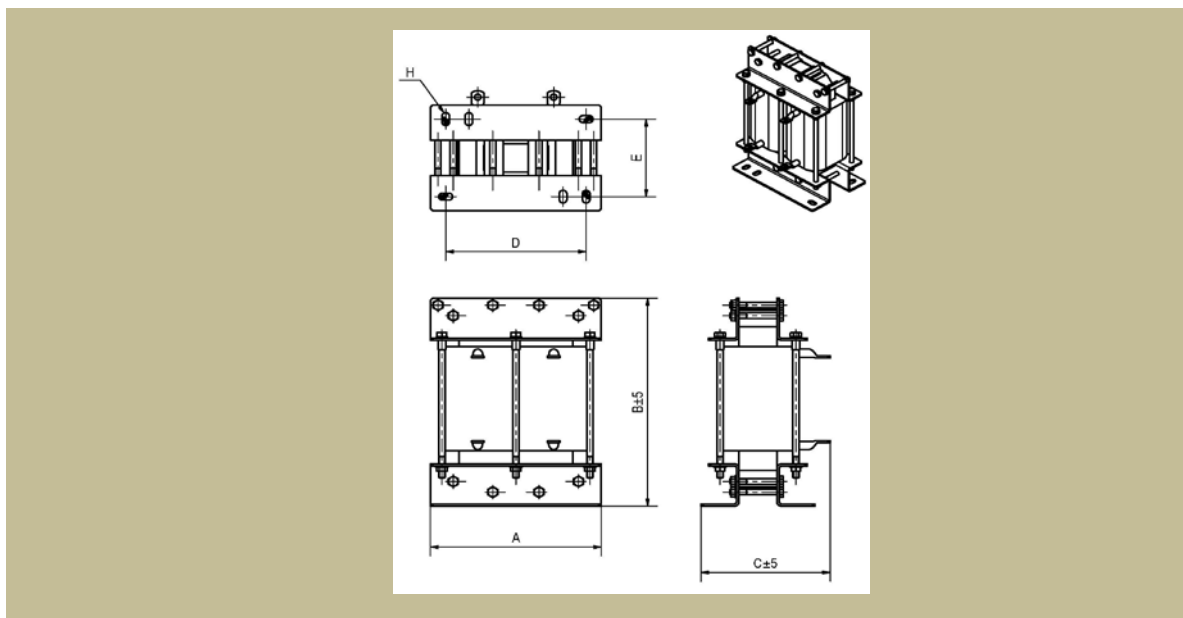




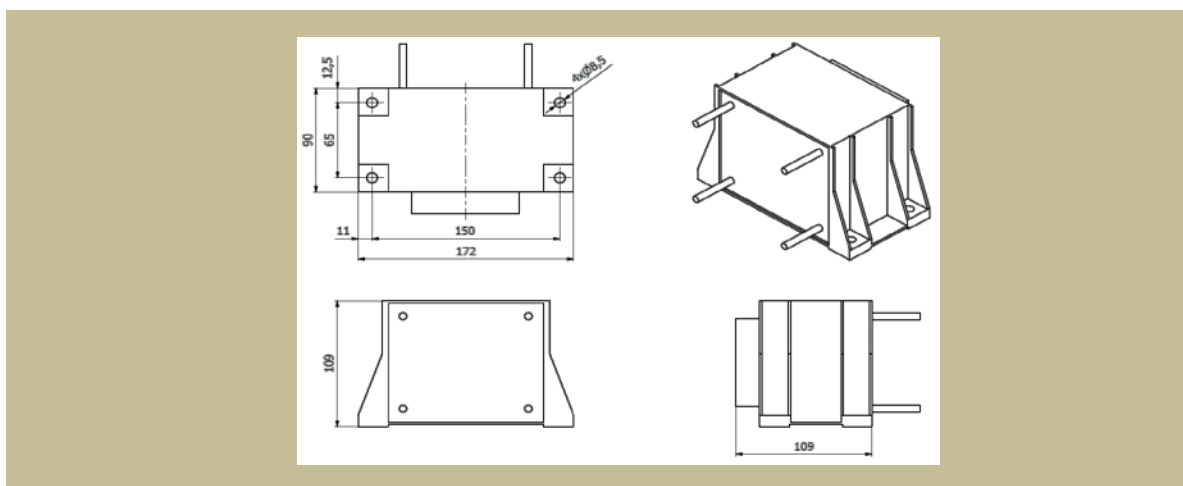
Dimensional drawing : SKY2TDC20-2



Dimensional drawing : SKY2TDC40-3,5-SKY2TDC1200-0,045

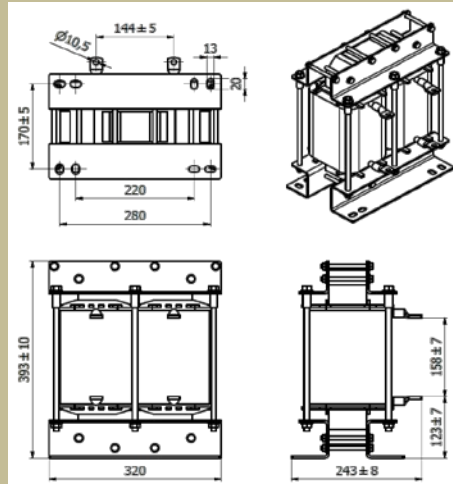


Dimensional drawing : SKY2TDC32-0,45

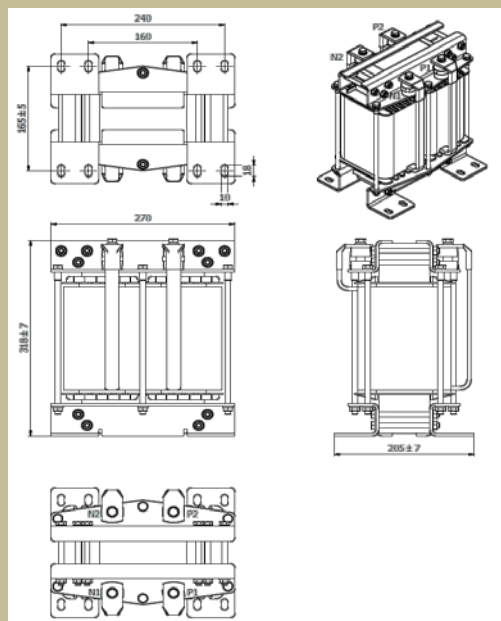




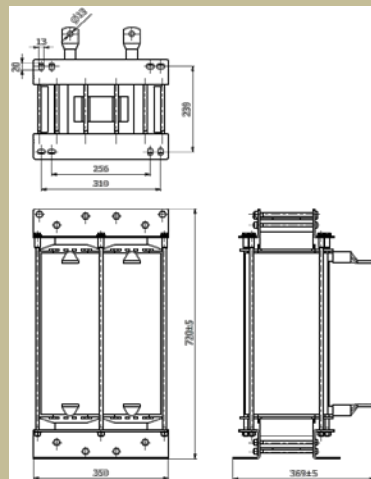
Dimensional drawing : SKY2TDC100-9,5 B



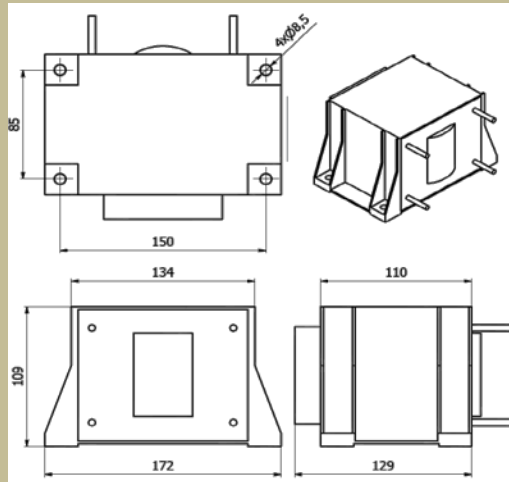
Dimensional drawing : SKY2TDC150-1,5-5kHz



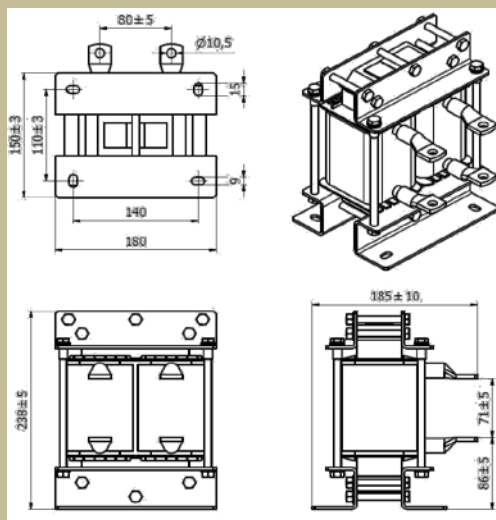
Dimensional drawing : SKY2TDC620-1,3



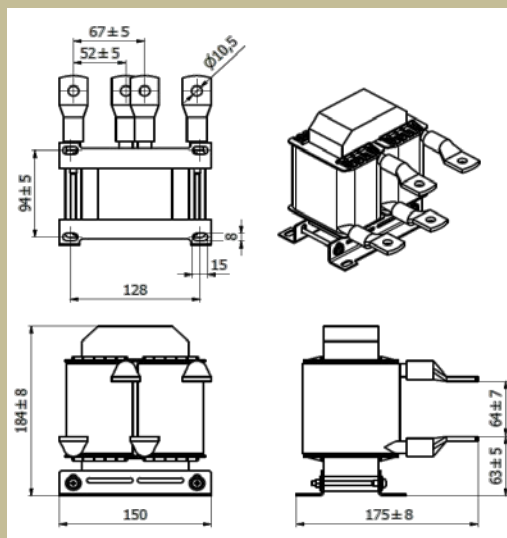
Dimensional drawing : SKY2TDC100-0,18-20/5kHz



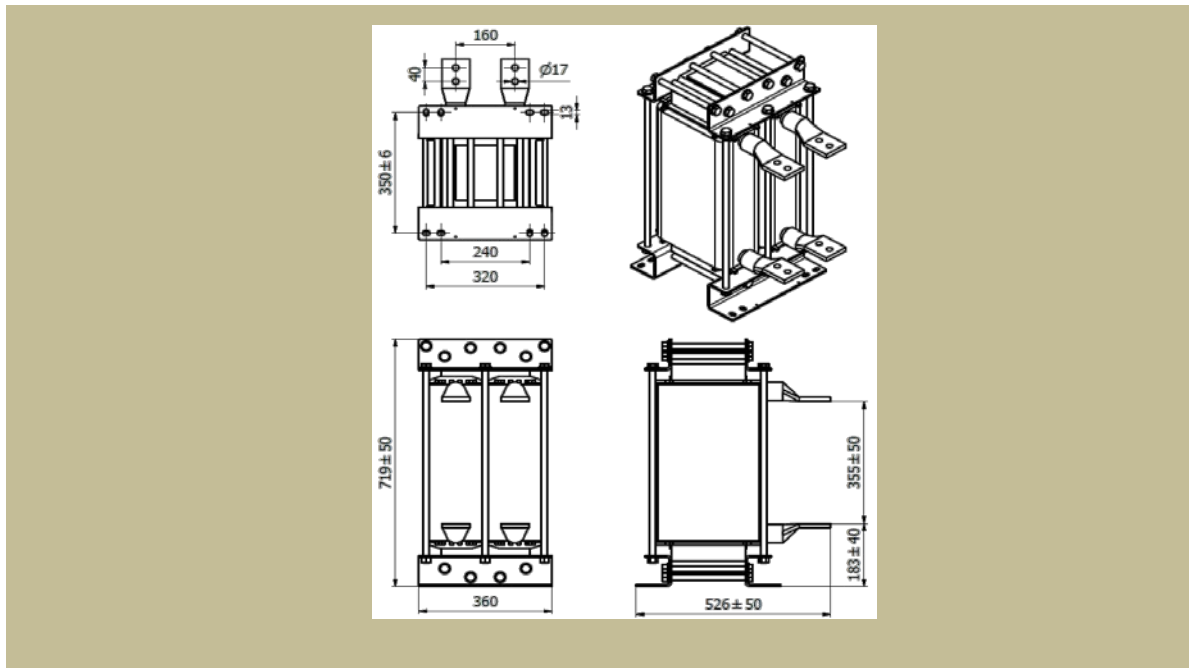
Dimensional drawing : SKY2TDC200-0,3



Dimensional drawing : SKY2TDC250-0,15



#### Dimensional drawing : SKY2TDC900-0,9



#### Dimensioning, wiring:

They are dimensioned according to indicated label nominal voltage and current values. Short-circuit protection must not exceed nominal current value. When installing into switchboards it is necessary to count with power loss of the filters and provide for sufficient heat removal. When connecting it is necessary to meet the EMC requirements. There must not be any paralleling of interference-suppressed and non-interference-suppressed circuits. The grounding connections must be as short as possible and it is necessary to avoid any ground loops.

#### Use:

They are supposed to be wired into the DC-links of the converters.