

Isolating transformer TT3 Neo



General Data

Rated input voltage 3 x 400 Vac
Rated output voltage 3 x 400 Vac
Rated power 10 kVA - 1 MVA
Insulation class F
Maximum ambient temperature 40 °C
Degree of protection IP 00

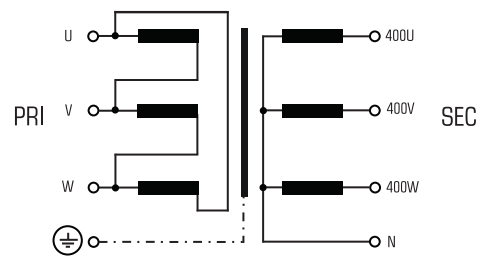
Advantages

Safe galvanic isolation
Very good corrosion protection and low noise thanks to vacuum impregnation
Very good discharging of thermal losses by means of optimally arranged cooling channels within the coils
Integrated crane eyes
If desired, the transformers can be realised in individual voltages

Applications

Isolating transformer for the safe electrical isolation of the input and output sides. The transformer may be used to set up protective separation as a protective measure in accordance with VDE 0100.

Sample application



Standards

Isolating transformer
to: VDE 0570 part 2-4, DIN EN 61558 part 1 with part 2-4

Approvals



Isolating transformer TT3 Neo

Typ		TT3-A010-4040-0	TT3-A016-4040-0	TT3-A020-4040-0	TT3-A025-4040-0	TT3-A030-4040-0	TT3-A040-4040-0
Electrical data	Input						
	Rated input voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
	Frequency range	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
	Output						
	Rated output voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
	Rated Power	10.000 VA	16.000 VA	20.000 VA	25.000 VA	30.000 VA	40.000 VA
	Output rated current	3 x 14,4 A	3 x 23,1 A	3 x 28,9 A	3 x 36,1 A	3 x 43,3 A	3 x 57,7 A
	Short circuit voltage	5,2 %	4,4 %	4 %	3,3 %	3,7 %	4,3 %
	Vector group	Dyn 5	Dyn 5	Dyn 5	Dyn 5	Dyn 5	Dyn 5
	Environment						
	Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
	Safety and protection						
	Type	Open type	Open type	Open type	Open type	Open type	Open type
	Insulation class	F	F	F	F	F	F
	Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I	
Short circuit strength	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	
Order numbers							
Recommended enclosure	BGE-065	BGE-080	BGE-080	BGE-080	BGE-080	BGE-085	
Order Number	TT3-A010-4040-0	TT3-A016-4040-0	TT3-A020-4040-0	TT3-A025-4040-0	TT3-A030-4040-0	TT3-A040-4040-0	



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Typ	TT3-A050-4040-0	TT3-A063-4040-0	TT3-A080-4040-0	TT3-A100-4040-0	TT3-A125-4040-0	TT3-A160-4040-0
Electrical data						
Input						
Rated input voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Frequency range	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz
Output						
Rated output voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac
Rated Power	50.000 VA	63.000 VA	80.000 VA	100.000 VA	125.000 VA	160.000 VA
Output rated current	3 x 72,1 A	3 x 90,9 A	3 x 115,4 A	3 x 144,3 A	3 x 180,4 A	3 x 230,9 A
Short circuit voltage	5,1 %	4,1 %	4,9 %	4,9 %	4,4 %	4,6 %
Vector group	Dyn 5	Dyn 5	Dyn 5	Dyn 5	Dyn 5	Dyn 5
Environment						
Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
Safety and protection						
Type	Open type	Open type	Open type	Open type	Open type	Open type
Insulation class	F	F	F	F	F	F
Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00
Safety class (prepared)	I	I	I	I	I	I
Short circuit strength	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof
Order numbers						
Recommended enclosure	BGE-085	BGE-085	BGE-115	BGE-115	BGE-115	BGE-130
Order Number	TT3-A050-4040-0	TT3-A063-4040-0	TT3-A080-4040-0	TT3-A100-4040-0	TT3-A125-4040-0	TT3-A160-4040-0



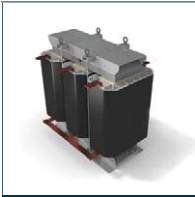
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		TT3-A200-4040-0	TT3-A250-4040-0	TT3-A315-4040-0	TT3-A400-4040-0	TT3-A500-4040-0	TT3-A630-4040-0	
Electrical data	Typ							
	Input							
	Rated input voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	
	Frequency range	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	50 - 60 Hz	
	Output							
	Rated output voltage	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	3 x 400 Vac	
	Rated Power	200.000 VA	250.000 VA	315.000 VA	400.000 VA	500.000 VA	630.000 VA	
	Output rated current	3 x 288.6 A	3 x 360.7 A	3 x 454.5 A	3 x 577.2 A	3 x 721.5 A	3 x 909.1 A	
	Short circuit voltage	4,1 %	3,6 %	3,2 %	3,2 %	3,3 %	3 %	
	Vector group	Dyn 5	Dyn 5	Dyn 5	Dyn 5	Dyn 5	Dyn 5	
	Environment							
	Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C	
	Safety and protection							
	Type	Open type	Open type	Open type	Open type	Open type	Open type	
	Insulation class	F	F	F	F	F	F	
	Protection index	IP 00	IP 00	IP 00	IP 00	IP 00	IP 00	
	Safety class (prepared)	I	I	I	I	I	I	
	Short circuit strength	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	non-short-circuit proof	
	Order numbers							
Recommended enclosure	BGE-130	BGE-130	BGE-130	BGE-150	BGE-150	BGE-150		
Order Number	TT3-A200-4040-0	TT3-A250-4040-0	TT3-A315-4040-0	TT3-A400-4040-0	TT3-A500-4040-0	TT3-A630-4040-0		



Isolating transformer TT3 Neo

		TT3-A800-4040-0	TT3C1000-4040-0	
Electrical data	Typ			
	Input			
	Rated input voltage	3 x 400 Vac	3 x 400 Vac	
	Frequency range	50 - 60 Hz	50 - 60 Hz	
	Output			
	Rated output voltage	3 x 400 Vac	3 x 400 Vac	
	Rated Power	800.000 VA	1 MVA	
	Output rated current	3 x 1154 A	3 x 1443 A	
	Short circuit voltage	2.4 %	3 %	
	Vector group	Dyn 5	Dyn 5	
	Environment			
	Ambient temperature max.	40 °C	40 °C	
	Safety and protection			
	Type	Open type	Open type	
	Insulation class	F	F	
	Protection index	IP 00	IP 00	
	Safety class (prepared)	I	I	
	Short circuit strength	non-short-circuit proof	non-short-circuit proof	
	Order numbers			
Recommended enclosure				
Order Number	TT3-A800-4040-0	TT3C1000-4040-0		



Isolating transformer TT3 Neo

Typ	Terminals	Fixing method	Weight	Core type	Dimension picture (in mm)	A	B	C	D	E	F	G
TT3-A010-4040-0	Screw-type terminal input 10 mm ² , output 4 mm ²	Fixing rail	74.00 kg	3UI 210/88	①	480	240	400	450	198	148	450
TT3-A016-4040-0	Screw-type terminal 10 mm ²	Fixing rail	119.00 kg	3UI 240/110	①	552	270	460	-	-	-	-
TT3-A020-4040-0	Screw-type terminal 10 mm ²	Fixing rail	122.00 kg	3UI 240/110	①	552	300	460	525	245	182	516
TT3-A025-4040-0	Screw-type terminal 10 mm ²	Fixing rail	154.00 kg	3UI 240/140	①	552	300	460	-	-	-	-
TT3-A030-4040-0	Screw-type terminal 10 mm ²	Fixing rail	160.00 kg	3UI 240/140	①	552	300	460	-	-	-	-
TT3-A040-4040-0	Screw-type terminal 16 mm ²	Fixing rail	161.00 kg	3UC 454/110	③	550	300	550	-	-	-	-
TT3-A050-4040-0	Screw-type terminal 35 mm ²	Fixing rail	192.00 kg	3UC 504/125	③	620	350	570	-	-	-	-
TT3-A063-4040-0	Screw-type terminal 35 mm ²	Fixing rail	267.00 kg	3UC 504/175	③	620	380	570	-	-	-	-
TT3-A080-4040-0	Screw-type terminal 35 mm ²	Fixing rail	300.00 kg	3UC 594/125	③	740	340	790	-	-	-	-
TT3-A100-4040-0	Screw-type terminal 70 mm ²	Fixing rail	359.00 kg	3UC 594/150	③	740	370	790	661	-	250	600
TT3-A125-4040-0	Screw-type terminal 70 mm ²	Fixing rail	410.00 kg	3UC 594/175	③	740	400	805	-	-	-	-
TT3-A160-4040-0	Screw-type terminal 150 mm ²	Fixing rail	455.00 kg	3UC 719/125	③	890	360	985	-	-	-	-
TT3-A200-4040-0	Screw-type terminal 240 mm ²	Fixing rail	541.00 kg	3UC 719/150	③	890	470	920	-	-	-	-
TT3-A250-4040-0	Ø1 mm busbar hole	Fixing rail	710.00 kg	3UC 814/150	③	1000	530	1040	-	-	-	-
TT3-A315-4040-0	Ø1 mm busbar hole	Fixing rail	825.00 kg	3UC 814/175	③	1000	555	1040	-	-	-	-
TT3-A400-4040-0	Ø1 mm busbar hole	Fixing rail	1068.00 kg	3UC 864/200	③	1075	580	1100	-	-	-	-
TT3-A500-4040-0	Ø3 mm busbar hole	Fixing rail	1353.00 kg	3UC 864/250	③	1075	630	1100	-	-	-	-
TT3-A630-4040-0	2x Ø1 mm busbar hole	Fixing rail	1616.00 kg	3UC 864/300	③	1075	710	1100	-	-	-	-
TT3-A800-4040-0	4x Ø13 mm busbar hole	Fixing rail	2100.00 kg	3UC 864/300	⑤	1170	545	1150	-	-	460	1000
TT3C1000-4040-0	4x Ø13 mm busbar hole	Fixing rail	2700.00 kg	3UC 864/300	⑤	1170	545	1150	-	-	460	1000

Dimension pictures

