

Autotransformer AT3



General Data

Rated input voltage 3 x 200/208 - 3 x 690 Vac
Rated output voltage 3 x 400 Vac
Rated power 2000 - 250000 VA
Insulation class F
Maximum ambient temperature 40 °C
Efficiency up to 98 %
Degree of protection IP 00
Optionally adapted package for higher degrees of protection

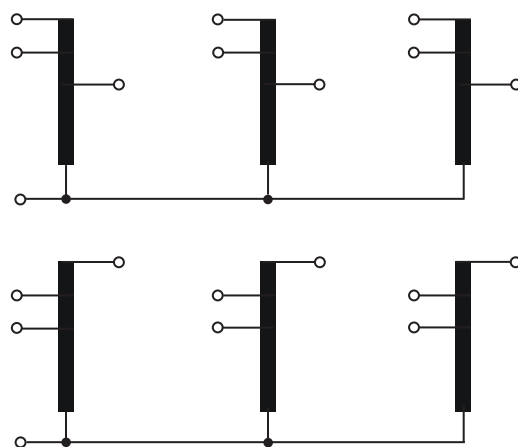
Advantages

Low weight and small size (compared to isolating transformers)
Very high efficiency
Patented assembly technology to lower heat losses
Very good corrosion protection and low noise thanks to vacuum impregnation
Fixed, contact protected screw connection terminals complying with UVV BGV A3
Multifunctional fixing rails with 12 oval slots
Enlarged fixing rail for easy installation from above
Integrated crane eyes

Applications

Autotransformer for adjustment of the voltage on the input and output sides with no requirement for electrical isolation.

Sample application



Standards



Autotransformer
to: VDE 0570 Teil 2-13, DIN EN 61558-2-13, EN 61558-2-13,
IEC 61558-2-13, UL 5085-1/-2, CSA 22.2 No.66

Approvals



UL 5085-1/-2, CSA 22.2 No.66

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Electrical data	Typ	AT3 2-20/21-4	AT3 2-22/23-4	AT3 2-24/35-4	AT3 2-38/42-4	AT3 2-44/46-4	AT3 2-48/50-4
	Input						
	Rated input voltage	3 x 200/208 Vac	3 x 220/230 Vac	3 x 240/346 Vac	3 x 380/415 Vac	3 x 440/460 Vac	3 x 480/500 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	2.000 VA	2.000 VA	2.000 VA	2.000 VA	2.000 VA	2.000 VA
	Vector group	YNa0	YNa0	YNa0	YNa0	YNa0	YNa0
	Efficiency	91.0 %	90.0 %	90.0 %	78.0 %	87.0 %	90.0 %
	Approvals						
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGUK 10	BGUK 10	BGUK 10	BGUK 3	BGUK 10	BGUK 10
	Order Number	AT3 2-20/21-4	AT3 2-22/23-4	AT3 2-24/35-4	AT3 2-38/42-4	AT3 2-44/46-4	AT3 2-48/50-4

Electrical data	Typ	AT3 2-58/60-4	AT3 2-69-4	AT3 3,5-20/21-4	AT3 3,5-22/23-4	AT3 3,5-24/35-4	AT3 3,5-38/42-4
	Input						
	Rated input voltage	3 x 575/600 Vac	3 x 600/690 Vac	3 x 200/208 Vac	3 x 220/230 Vac	3 x 240/346 Vac	3 x 380/415 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	2.000 VA	2.000 VA	3.500 VA	3.500 VA	3.500 VA	3.500 VA
	Vector group	YNa0	YNa0	YNa0	YNa0	YNa0	YNa0
	Efficiency	88.0 %	90.0 %	93.0 %	93.0 %	91.0 %	86.0 %
	Approvals						
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGUK 10	BGUK 10	BGUK 20	BGUK 20	BGUK 20	BGUK 10
	Order Number	AT3 2-58/60-4	AT3 2-69-4	AT3 3,5-20/21-4	AT3 3,5-22/23-4	AT3 3,5-24/35-4	AT3 3,5-38/42-4

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Electrical data	Typ	AT3 3,5-44/46-4	AT3 3,5-48/50-4	AT3 3,5-58/60-4	AT3 3,5-69-4	AT3 10-20/21-4	AT3 10-22/23-4
	Input						
	Rated input voltage	3 x 440/460 Vac	3 x 480/500 Vac	3 x 575/600 Vac	3 x 600/690 Vac	3 x 200/208 Vac	3 x 220/230 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	3.500 VA	3.500 VA	3.500 VA	3.500 VA	10.000 VA	10.000 VA
	Vector group	YNa0	YNa0	YNa0	YNa0	YNa0	YNa0
	Efficiency	88,0 %	90,0 %	92,0 %	92,0 %	95,0 %	94,0 %
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Safety and protection	Environment						
	Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGUK 10	BGUK 10	BGUK 20	BGUK 20	BGE-065	BGE-065
Order Number		AT3 3,5-44/46-4	AT3 3,5-48/50-4	AT3 3,5-58/60-4	AT3 3,5-69-4	AT3 10-20/21-4	AT3 10-22/23-4

Electrical data	Typ	AT3 10-24/35-4	AT3 10-38/42-4	AT3 10-44/46-4	AT3 10-48/50-4	AT3 10-58/60-4	AT3 10-69-4
	Input						
	Rated input voltage	3 x 240/346 Vac	3 x 380/415 Vac	3 x 440/460 Vac	3 x 480/500 Vac	3 x 575/600 Vac	3 x 600/690 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	10.000 VA	10.000 VA	10.000 VA	10.000 VA	10.000 VA
	Vector group	YNa0	YNa0	YNa0	YNa0	YNa0	YNa0
	Efficiency	95,0 %	84,0 %	91,0 %	93,0 %	94,0 %	95,0 %
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
Safety and protection	Environment						
	Ambient temperature max.	40 °C	40 °C	40 °C	40 °C	40 °C	40 °C
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGE-065	BGUK 10	BGUK 20	BGUK 20	BGE-050	BGE-065
Order Number		AT3 10-24/35-4	AT3 10-38/42-4	AT3 10-44/46-4	AT3 10-48/50-4	AT3 10-58/60-4	AT3 10-69-4

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Electrical data	Typ	AT3 15-20/21-4	AT3 15-22/23-4	AT3 15-24/35-4	AT3 15-38/42-4	AT3 15-44/46-4	AT3 15-48/50-4
	Input						
	Rated input voltage	3 x 200/208 Vac	3 x 220/230 Vac	3 x 240/346 Vac	3 x 380/415 Vac	3 x 440/460 Vac	3 x 480/500 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	15.000 VA	15.000 VA	15.000 VA	15.000 VA	15.000 VA	15.000 VA
	Vector group	YNa0	YNa0	YNa0	YNa0	YNa0	YNa0
	Efficiency	96.0 %	96.0 %	95.0 %	89.0 %	93.0 %	93.0 %
	Approvals						
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGE-065	BGE-065	BGE-065	BGUK 10	BGUK 20	BGE-050
	Order Number	AT3 15-20/21-4	AT3 15-22/23-4	AT3 15-24/35-4	AT3 15-38/42-4	AT3 15-44/46-4	AT3 15-48/50-4

Electrical data	Typ	AT3 15-58/60-4	AT3 15-69-4	AT3 25-20/21-4	AT3 25-22/23-4	AT3 25-24/35-4	AT3 25-38/42-4
	Input						
	Rated input voltage	3 x 575/600 Vac	3 x 600/690 Vac	3 x 200/208 Vac	3 x 220/230 Vac	3 x 240/346 Vac	3 x 380/415 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	15.000 VA	15.000 VA	25.000 VA	25.000 VA	25.000 VA	25.000 VA
	Vector group	YNa0	YNa0	YNa0	YNa0	YNa0	YNa0
	Efficiency	95.0 %	95.0 %	97.0 %	96.0 %	96.0 %	90.0 %
	Approvals						
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGE-065	BGE-065				BGUK 20
	Order Number	AT3 15-58/60-4	AT3 15-69-4	AT3 25-20/21-4	AT3 25-22/23-4	AT3 25-24/35-4	AT3 25-38/42-4

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Electrical data	Typ	AT3 25-44/46-4	AT3 25-48/50-4	AT3 25-58/60-4	AT3 25-69-4	AT3 45-20/21-4	AT3 45-22/23-4
	Input						
	Rated input voltage	3 x 440/460 Vac	3 x 480/500 Vac	3 x 575/600 Vac	3 x 600/690 Vac	3 x 200/208 Vac	3 x 220/230 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	25.000 VA	25.000 VA	25.000 VA	25.000 VA	45.000 VA	45.000 VA
	Vector group	YNao	YNao	YNao	YNao	YNao	YNao
	Efficiency	94.0 %	95.0 %	96.0 %	96.0 %	97.0 %	97.0 %
	Approvals						
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGE-050	BGE-065			BGE-080	BGE-080
	Order Number	AT3 25-44/46-4	AT3 25-48/50-4	AT3 25-58/60-4	AT3 25-69-4	AT3 45-20/21-4	AT3 45-22/23-4

Electrical data	Typ	AT3 45-24/35-4	AT3 45-38/42-4	AT3 45-44/46-4	AT3 45-48/50-4	AT3 45-58/60-4	AT3 45-69-4
	Input						
	Rated input voltage	3 x 240/346 Vac	3 x 380/415 Vac	3 x 440/460 Vac	3 x 480/500 Vac	3 x 575/600 Vac	3 x 600/690 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	45.000 VA	45.000 VA	45.000 VA	45.000 VA	45.000 VA	45.000 VA
	Vector group	YNao	YNao	YNao	YNao	YNao	YNao
	Efficiency	97.0 %	92.0 %	95.0 %	96.0 %	97.0 %	97.0 %
	Approvals						
	Approvals	cURus	cURus	cURus	cURus	cURus	-
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGE-080	BGE-050	BGE-065		BGE-080	BGE-080
	Order Number	AT3 45-24/35-4	AT3 45-38/42-4	AT3 45-44/46-4	AT3 45-48/50-4	AT3 45-58/60-4	AT3 45-69-4

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Electrical data	Typ	AT3 70-20/21-4	AT3 70-22/23-4	AT3 70-24/35-4	AT3 70-38/42-4	AT3 70-44/46-4	AT3 70-48/50-4
	Input						
	Rated input voltage	3 x 200/208 Vac	3 x 220/230 Vac	3 x 240/346 Vac	3 x 380/415 Vac	3 x 440/460 Vac	3 x 480/500 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	70.000 VA	70.000 VA	70.000 VA	70.000 VA	70.000 VA	70.000 VA
	Vector group	YNa0	YNa0	YNa0	YNa0	YNa0	YNa0
	Efficiency	98.0 %	97.0 %	97.0 %	93.0 %	96.0 %	96.0 %
	Approvals						
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGE-085	BGE-085	BGE-085	BGE-065		BGE-080
	Order Number	AT3 70-20/21-4	AT3 70-22/23-4	AT3 70-24/35-4	AT3 70-38/42-4	AT3 70-44/46-4	AT3 70-48/50-4

Electrical data	Typ	AT3 70-58/60-4	AT3 70-69-4	AT3 110-20/21-4	AT3 110-22/23-4	AT3 110-24/35-4	AT3 110-38/42-4
	Input						
	Rated input voltage	3 x 575/600 Vac	3 x 690 Vac	3 x 200/208 Vac	3 x 220/230 Vac	3 x 240/346 Vac	3 x 380/415 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	70.000 VA	70.000 VA	110.000 VA	110.000 VA	110.000 VA	110.000 VA
	Vector group	YNa0	YNa0	YNa0	YNa0	YNa0	YNa0
	Efficiency	97.0 %	97.0 %	98.0 %	98.0 %	98.0 %	94.0 %
	Approvals						
	Approvals	cURus	-	cURus	cURus	cURus	cURus
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGE-080	BGE-080	BGE-085	BGE-085	BGE-085	BGE-065
	Order Number	AT3 70-58/60-4	AT3 70-69-4	AT3 110-20/21-4	AT3 110-22/23-4	AT3 110-24/35-4	AT3 110-38/42-4

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Electrical data	Typ	AT3 110-44/46-4	AT3 110-48/50-4	AT3 110-58/60-4	AT3 110-69-4	AT3 160-20/21-4	AT3 160-22/23-4
	Input						
	Rated input voltage	3 x 440/460 Vac	3 x 480/500 Vac	3 x 575/600 Vac	3 x 690 Vac	3 x 200/208 Vac	3 x 220/230 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	110.000 VA	110.000 VA	110.000 VA	110.000 VA	160.000 VA	160.000 VA
	Vector group	YNao	YNao	YNao	YNao	YNao	YNao
	Efficiency	96.0 %	97.0 %	97.0 %	98.0 %	98.0 %	98.0 %
	Approvals	cURus	cURus	cURus	-	cURus	cURus
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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
Order numbers							
	Recommended enclosure	BGE-080	BGE-080	BGE-085	BGE-085	BGE-095	BGE-095
	Order Number	AT3 110-44/46-4	AT3 110-48/50-4	AT3 110-58/60-4	AT3 110-69-4	AT3 160-20/21-4	AT3 160-22/23-4

Electrical data	Typ	AT3 160-24/35-4	AT3 160-38/42-4	AT3 160-44/46-4	AT3 160-48/50-4	AT3 160-58/60-4	AT3 160-69-4
	Input						
	Rated input voltage	3 x 240/346 Vac	3 x 380/415 Vac	3 x 440/460 Vac	3 x 480/500 Vac	3 x 575/600 Vac	3 x 690 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	160.000 VA	160.000 VA	160.000 VA	160.000 VA	160.000 VA	160.000 VA
	Vector group	YNao	YNao	YNao	YNao	YNao	YNao
	Efficiency	98.0 %	94.0 %	96.0 %	97.0 %	98.0 %	98.0 %
	Approvals	cURus	cURus	cURus	cURus	cURus	-
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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
Order numbers							
	Recommended enclosure	BGE-095		BGE-085	BGE-085	BGE-085	BGE-095
	Order Number	AT3 160-24/35-4	AT3 160-38/42-4	AT3 160-44/46-4	AT3 160-48/50-4	AT3 160-58/60-4	AT3 160-69-4

1 Transformers

Autotransformers



Autotransformer AT3

Electrical data	Typ	AT3 250-20/21-4	AT3 250-22/23-4	AT3 250-24/35-4	AT3 250-38/42-4	AT3 250-44/46-4	AT3 250-48/50-4
	Input						
	Rated input voltage	3 x 200/208 Vac	3 x 220/230 Vac	3 x 240/346 Vac	3 x 380/415 Vac	3 x 440/460 Vac	3 x 480/500 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	250.000 VA	250.000 VA	250.000 VA	250.000 VA	250.000 VA	250.000 VA
	Vector group	YNa0	YNa0	YNa0	YNa0	YNa0	YNa0
	Efficiency	98.0 %	98.0 %	98.0 %	95.0 %	96.0 %	98.0 %
	Approvals						
	Approvals	cURus	cURus	cURus	cURus	cURus	cURus
	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
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz	4000 Vac, 50 Hz
	Order numbers						
	Recommended enclosure	BGE-130	BGE-130	BGE-095		BGE-095	BGE-095
	Order Number	AT3 250-20/21-4	AT3 250-22/23-4	AT3 250-24/35-4	AT3 250-38/42-4	AT3 250-44/46-4	AT3 250-48/50-4

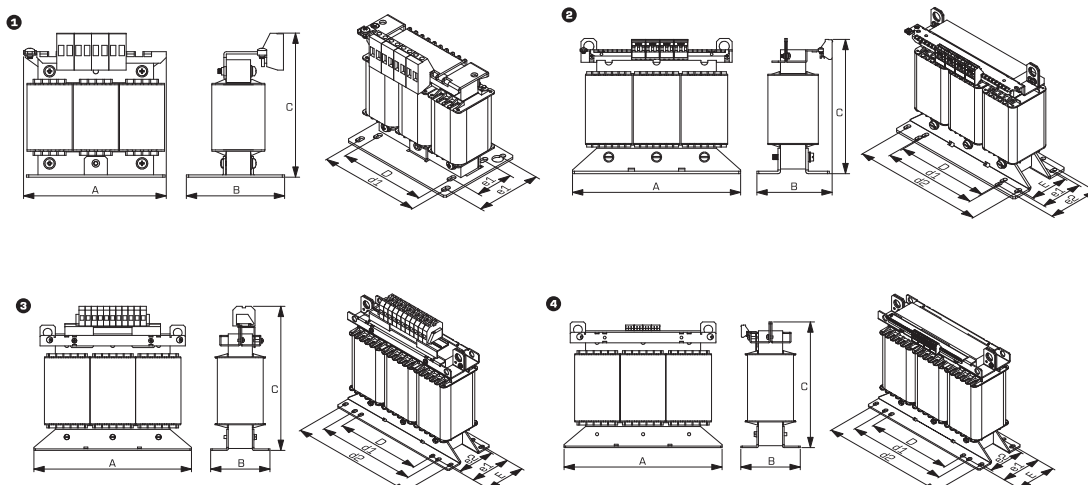
Electrical data	Typ	AT3 250-58/60-4	AT3 250-69-4				
	Input						
	Rated input voltage	3 x 575/600 Vac	3 x 690 Vac				
	Frequency range	50 - 60 Hz	50 - 60 Hz				
	Output						
	Rated output voltage	3 x 400 Vac	3 x 400 Vac				
	Rated Power	250.000 VA	250.000 VA				
	Vector group	YNa0	YNa0				
	Efficiency	98.0 %	98.0 %				
	Approvals						
	Approvals	cURus	-				
	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				
	Test voltage	4000 Vac, 50 Hz	4000 Vac, 50 Hz				
	Order numbers						
	Recommended enclosure	BGE-095	BGE-130				
	Order Number	AT3 250-58/60-4	AT3 250-69-4				



Autotransformer AT3

Typ	Terminals	Fixing method	Fixing screws	Core type	Weight	Dimension picture (in mm)																	
							A	B	C	D	d1	d2	E	e1	e2	F	G	H	I	J	K		
							2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
AT3 2-20/21-4	Screw-type terminals	Fixing rail	M6	3 UI 90/51,5	10.5 kg	2	220	125	175	136	170	201	77	78	91	-	-	-	-	-	-		
AT3 2-22/23-4	Screw-type terminals	Fixing rail	M6	3 UI 90/51,5	10.5 kg	2	220	125	175	136	170	201	77	78	91	-	-	-	-	-	-		
AT3 2-24/35-4	Screw-type terminals	Fixing rail	M6	3 UI 90/41,5	9.8 kg	2	220	115	175	136	170	201	67	68	81	-	-	-	-	-	-		
AT3 2-38/42-4	Screw-type terminals	Fixing rail	M4	3 UI 60/21	2.2 kg	1	125	85	125	90	105	-	39	70	-	-	-	-	-	-	-		
AT3 2-44/46-4	Screw-type terminals	Fixing rail	M5	3 UI 75/26,5	4.1 kg	1	155	95	155	113	135	-	50	80	-	-	-	-	-	-	-		
AT3 2-48/50-4	Screw-type terminals	Fixing rail	M5	3 UI 75/41,5	6.1 kg	1	155	110	155	113	135	-	65	95	-	-	-	-	-	-	-		
AT3 2-58/60-4	Screw-type terminals	Fixing rail	M6	3 UI 90/31,5	7.5 kg	2	220	105	175	136	170	201	57	58	71	-	-	-	-	-	-		
AT3 2-69-4	Screw-type terminals	Fixing rail	M6	3 UI 90/41,5	10.0 kg	2	220	115	175	136	170	201	67	68	81	-	-	-	-	-	-		
AT3 3,5-20/21-4	Screw-type terminals	Fixing rail	M6	3 UI 114/64	20.0 kg	2	267	150	220	176	180	249	95	103	122	-	-	-	-	-	-		
AT3 3,5-22/23-4	Screw-type terminals	Fixing rail	M6	3 UI 114/64	20.7 kg	2	267	150	220	176	180	249	95	103	122	-	-	-	-	-	-		
AT3 3,5-24/35-4	Screw-type terminals	Fixing rail	M6	3 UI 114/40	14.5 kg	2	267	125	215	176	180	249	71	79	98	-	-	-	-	-	-		
AT3 3,5-38/42-4	Screw-type terminals	Fixing rail	M5	3 UI 75/26,5	4.3 kg	1	155	95	155	113	135	-	50	80	-	-	-	-	-	-	-		
AT3 3,5-44/46-4	Screw-type terminals	Fixing rail	M5	3 UI 75/41,5	6.1 kg	1	155	110	155	113	135	-	65	95	-	-	-	-	-	-	-		
AT3 3,5-48/50-4	Screw-type terminals	Fixing rail	M6	3 UI 90/41,5	8.7 kg	2	220	115	175	136	170	201	67	68	81	-	-	-	-	-	-		
AT3 3,5-58/60-4	Screw-type terminals	Fixing rail	M6	3 UI 114/40	14.2 kg	2	267	125	215	176	180	249	71	79	98	-	-	-	-	-	-		
AT3 3,5-69-4	Screw-type terminals	Fixing rail	M6	3 UI 114/40	15.0 kg	2	267	125	215	176	180	249	71	79	98	-	-	-	-	-	-		
AT3 10-20/21-4	Screw-type terminals	Fixing rail	M8	3 UI 150/77	47.6 kg	2	350	192	280	224	240	328	119	129	145	-	-	-	-	-	-		
AT3 10-22/23-4	Screw-type terminals	Fixing rail	M8	3 UI 150/77	42.4 kg	2	350	192	280	224	240	328	119	129	145	-	-	-	-	-	-		
AT3 10-24/35-4	Screw-type terminals	Fixing rail	M8	3 UI 150/65	39.3 kg	2	350	162	280	224	240	328	107	117	133	-	-	-	-	-	-		
AT3 10-38/42-4	Screw-type terminals	Fixing rail	M6	3 UI 90/31,5	7.0 kg	2	220	105	175	136	170	201	57	58	71	-	-	-	-	-	-		
AT3 10-44/46-4	Screw-type terminals	Fixing rail	M6	3 UI 114/40	14.4 kg	2	267	125	215	176	180	249	71	79	98	-	-	-	-	-	-		
AT3 10-48/50-4	Screw-type terminals	Fixing rail	M6	3 UI 114/64	20.8 kg	2	267	150	220	176	180	249	95	103	122	-	-	-	-	-	-		
AT3 10-58/60-4	Screw-type terminals	Fixing rail	M8	3 UI 132/72	32.1 kg	2	315	165	250	200	215	292	102	124	126	-	-	-	-	-	-		
AT3 10-69-4	Screw-type terminals	Fixing rail	M8	3 UI 150/65	38.0 kg	2	350	162	280	224	240	328	107	117	133	-	-	-	-	-	-		
AT3 15-20/21-4	Screw-type terminals	Fixing rail	M8	3 UI 180/78	67.6 kg	3	410	180	380	264	310	388	140	140	130	-	-	-	-	-	-		
AT3 15-22/23-4	Screw-type terminals	Fixing rail	M8	3 UI 180/78	64.9 kg	4	410	195	345	264	310	388	140	140	130	-	-	-	-	-	-		
AT3 15-24/35-4	Screw-type terminals	Fixing rail	M8	3 UI 180/63	54.4 kg	4	410	175	345	264	310	388	125	125	115	-	-	-	-	-	-		

Dimension pictures

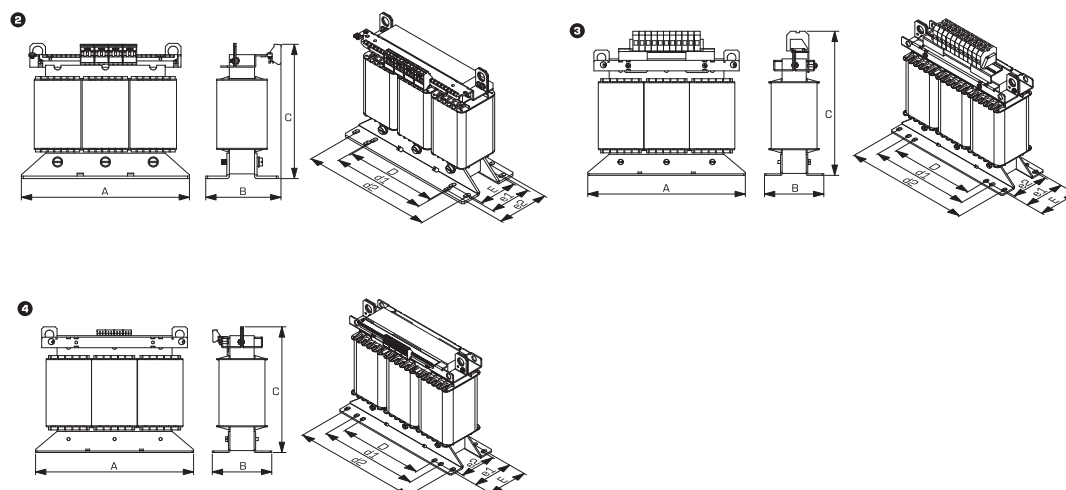




Autotransformer AT3

Mechanical data	Typ	Terminals	Fixing method	Fixing screws	Core type	Weight	Dimension picture (in mm)																			
								A	B	C	D	d1	d2	E	e1	e2	F	G	H	I	J	K				
	AT3 15-38/42-4	Screw-type terminals	Fixing rail	M6	3 UI 90/51,1	10.0 kg		220	125	175	136	170	201	77	78	91	-	-	-	-	-	-				
	AT3 15-44/46-4	Screw-type terminals	Fixing rail	M6	3 UI 114/64	20.1 kg		267	150	215	176	180	249	95	103	122	-	-	-	-	-	-				
	AT3 15-48/50-4	Screw-type terminals	Fixing rail	M8	3 UI 132/72	29.4 kg		315	165	250	200	215	292	102	104	126	-	-	-	-	-	-				
	AT3 15-58/60-4	Screw-type terminals	Fixing rail	M8	3 UI 150/77	44.0 kg		350	177	280	224	240	328	119	129	145	-	-	-	-	-	-				
	AT3 15-69-4	Screw-type terminals	Fixing rail	M8	3 UI 180/63	58.0 kg		410	155	340	264	310	388	125	125	115	-	-	-	-	-	-				
	AT3 25-20/21-4	Screw-type terminals	Fixing rail	M10	3 UI 210/88	103.0 kg		480	220	440	316	370	450	158	166	148	-	-	-	-	-	-				
	AT3 25-22/23-4	Screw-type terminals	Fixing rail	M10	3 UI 210/88	99.3 kg		480	220	440	316	370	450	158	166	148	-	-	-	-	-	-				
	AT3 25-24/35-4	Screw-type terminals	Fixing rail	M10	3 UI 210/73	83.4 kg		480	180	430	316	370	450	143	151	133	-	-	-	-	-	-				
	AT3 25-38/42-4	Screw-type terminals	Fixing rail	M6	3 UI 114/40	15.0 kg		267	145	220	176	180	249	71	79	98	-	-	-	-	-	-				
	AT3 25-44/46-4	Screw-type terminals	Fixing rail	M8	3 UI 132/72	30.3 kg		315	185	255	200	215	292	102	124	126	-	-	-	-	-	-				
	AT3 25-48/50-4	Screw-type terminals	Fixing rail	M8	3 UI 150/77	44.0 kg		350	192	280	224	240	328	119	129	145	-	-	-	-	-	-				
	AT3 25-58/60-4	Screw-type terminals	Fixing rail	M10	3 UI 210/63	75.6 kg		480	182	395	316	370	450	133	141	123	-	-	-	-	-	-				
	AT3 25-69-4	Screw-type terminals	Fixing rail	M10	3 UI 210/73	83.0 kg		480	192	395	316	370	450	143	151	133	-	-	-	-	-	-				
	AT3 45-20/21-4	Screw-type terminals	Fixing rail	M12	3 UI 240/140	197.0 kg		550	290	510	356	430	516	214	240	212	-	-	-	-	-	-				
	AT3 45-22/23-4	Screw-type terminals	Fixing rail	M12	3 UI 240/110	162.0 kg		550	260	510	356	430	516	184	210	182	-	-	-	-	-	-				
	AT3 45-24/35-4	Screw-type terminals	Fixing rail	M12	3 UI 240/110	149.0 kg		550	260	510	356	430	516	184	210	182	-	-	-	-	-	-				
	AT3 45-38/42-4	Screw-type terminals	Fixing rail	M8	3 UI 132/46	23.9 kg		315	170	295	200	215	292	76	78	100	-	-	-	-	-	-				
	AT3 45-44/46-4	Screw-type terminals	Fixing rail	M8	3 UI 180/63	59.9 kg		410	155	380	264	310	388	125	125	115	-	-	-	-	-	-				
	AT3 45-48/50-4	Screw-type terminals	Fixing rail	M10	3 UI 210/63	77.3 kg		480	170	425	316	370	450	133	141	123	-	-	-	-	-	-				
	AT3 45-58/60-4	Screw-type terminals	Fixing rail	M12	3 UI 240/83	125.0 kg		550	240	480	356	430	516	157	183	155	-	-	-	-	-	-				
	AT3 45-69-4	Screw-type terminals	Fixing rail	M12	3 UI 240/110	116.0 kg		550	260	485	356	430	516	184	210	182	-	-	-	-	-	-				
	AT3 70-20/21-4	Screw-type terminals	Fixing rail	M12	3 UI 240/140	239.0 kg		550	290	520	356	430	516	214	240	212	-	-	-	-	-	-				

Dimension pictures

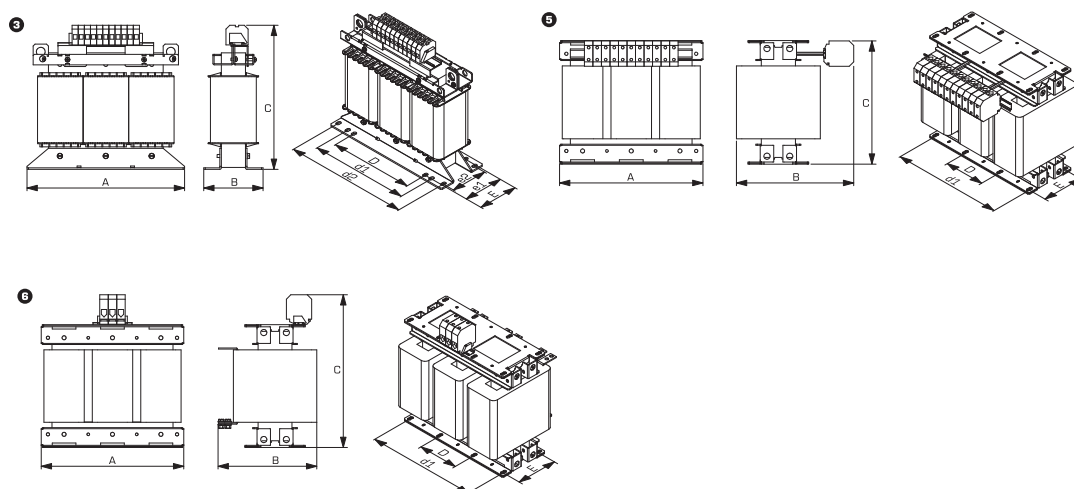




Autotransformer AT3

Typ	Terminals	Fixing method	Fixing screws	Core type	Weight	Dimension picture (in mm)	A	B	C	D	d1	d2	E	e1	e2	F	G	H	I	J	K
AT3 70-22/23-4	Screw-type terminals	Fixing rail	M12	3 UI 240/140	218.0 kg	3	550	290	520	356	430	516	214	240	212	-	-	-	-	-	-
AT3 70-24/35-4	Screw-type terminals	Fixing rail	M12	3 UI 240/140	212.0 kg	3	550	290	520	356	430	516	214	240	212	-	-	-	-	-	-
AT3 70-38/42-4	Screw-type terminals	Fixing rail	M8	3 UI 150/65	38.9 kg	3	350	185	320	224	240	328	107	117	133	-	-	-	-	-	-
AT3 70-44/46-4	Screw-type terminals	Fixing rail	M10	3 UI 210/63	83.2 kg	3	480	195	440	316	370	450	133	141	123	-	-	-	-	-	-
AT3 70-48/50-4	Screw-type terminals	Fixing rail	M12	3 UI 240/83	123.0 kg	3	550	240	485	356	430	516	157	183	155	-	-	-	-	-	-
AT3 70-58/60-4	Screw-type terminals	Fixing rail	M12	3 UI 240/140	192.0 kg	3	550	290	485	356	430	516	214	240	212	-	-	-	-	-	-
AT3 70-69-4	Screw-type terminals	Fixing rail	M12	3 UI 240/140	199.0 kg	3	550	290	485	356	430	516	214	240	212	-	-	-	-	-	-
AT3 110-20/21-4	Screw-type terminals	Fixing rail	M12	3 UI 270/135	264.0 kg	5	530	430	500	180	490	-	200	-	-	-	-	-	-	-	-
AT3 110-22/23-4	Screw-type terminals	Fixing rail	M12	3 UI 270/120	258.0 kg	5	530	415	500	180	490	-	185	-	-	-	-	-	-	-	-
AT3 110-24/35-4	Screw-type terminals	Fixing rail	M12	3 UI 270/120	243.0 kg	5	530	400	500	180	490	-	185	-	-	-	-	-	-	-	-
AT3 110-38/42-4	Screw-type terminals	Fixing rail	M8	3 UI 180/63	54.4 kg	3	410	165	415	264	310	388	125	125	115	-	-	-	-	-	-
AT3 110-44/46-4	Screw-type terminals	Fixing rail	M12	3 UI 240/83	123.0 kg	3	550	240	520	356	430	516	157	183	155	-	-	-	-	-	-
AT3 110-48/50-4	Screw-type terminals	Fixing rail	M12	3 UI 240/110	166.0 kg	3	550	260	520	356	430	516	184	210	182	-	-	-	-	-	-
AT3 110-58/60-4	Screw-type terminals	Fixing rail	M12	3 UI 270/120	220.0 kg	5	530	380	500	180	490	-	185	-	-	-	-	-	-	-	-
AT3 110-69-4	Screw-type terminals	Fixing rail	M12	3 UI 270/120	251.0 kg	5	530	380	500	180	490	-	185	-	-	-	-	-	-	-	-
AT3 160-20/21-4	Screw-type terminals	Fixing rail	M12	3 UI 300/150	380.0 kg	6	600	420	635	200	540	-	215	-	-	-	-	-	-	-	-
AT3 160-22/23-4	Screw-type terminals	Fixing rail	M12	3 UI 300/125	336.0 kg	6	600	390	635	200	540	-	190	-	-	-	-	-	-	-	-
AT3 160-24/35-4	Screw-type terminals	Fixing rail	M12	3 UI 300/125	310.0 kg	6	600	390	635	200	540	-	190	-	-	-	-	-	-	-	-
AT3 160-38/42-4	Screw-type terminals	Fixing rail	M10	3 UI 210/63	82.0 kg	3	480	235	490	316	370	450	133	141	123	-	-	-	-	-	-
AT3 160-44/46-4	Screw-type terminals	Fixing rail	M12	3 UI 240/110	166.0 kg	3	550	260	545	356	430	516	184	210	182	-	-	-	-	-	-
AT3 160-48/50-4	Screw-type terminals	Fixing rail	M12	3 UI 240/140	213.0 kg	3	550	290	520	356	430	516	214	240	212	-	-	-	-	-	-
AT3 160-58/60-4	Screw-type terminals	Fixing rail	M12	3 UI 270/120	269.0 kg	5	545	400	500	180	490	-	185	-	-	-	-	-	-	-	-

Dimension pictures





Autotransformer AT3

Mechanical data	30 mm	Type	Terminals	Fixing method	Fixing screws	Core type	Weight	Dimension picture (in mm)															
									A	B	C	D	d1	d2	E	e1	e2	F	G	H	I	J	K
		AT3 160-69-4	Screw-type terminals	Fixing rail	M12	3 UI 300/125	334.0 kg		600	480	550	200	540	-	190	-	-	-	-	-	-	-	-
		AT3 250-20/21-4	Screw-type terminals	Fixing rail	M16	3 UI 375/150	545.0 kg		750	605	730	500	-	-	490	-	-	-	-	-	-	-	-
		AT3 250-22/23-4	Screw-type terminals	Fixing rail	M16	3 UI 375/150	550.0 kg		750	605	730	500	-	-	490	-	-	-	-	-	-	-	-
		AT3 250-24/35-4	Screw-type terminals	Fixing rail	M12	3 UI 300/175	439.0 kg		600	510	550	200	540	-	240	-	-	-	-	-	-	-	-
		AT3 250-38/42-4	Screw-type terminals	Fixing rail	M10	3 UI 210/88	104.0 kg		480	270	395	316	370	450	158	166	148	-	-	-	-	-	-
		AT3 250-44/46-4	Screw-type terminals	Fixing rail	M12	3 UI 270/120	210.0 kg		530	415	500	180	490	-	185	-	-	-	-	-	-	-	-
		AT3 250-48/50-4	Screw-type terminals	Fixing rail	M12	3 UI 270/120	266.0 kg		530	415	500	180	490	-	185	-	-	-	-	-	-	-	-
		AT3 250-58/60-4	Screw-type terminals	Fixing rail	M12	3 UI 300/150	390.0 kg		600	505	550	200	540	-	215	-	-	-	-	-	-	-	-
		AT3 250-69-4	Screw-type terminals	Fixing rail	M16	3 UI 375/150	510.0 kg		750	605	730	500	-	-	490	-	-	-	-	-	-	-	-

Dimension pictures

