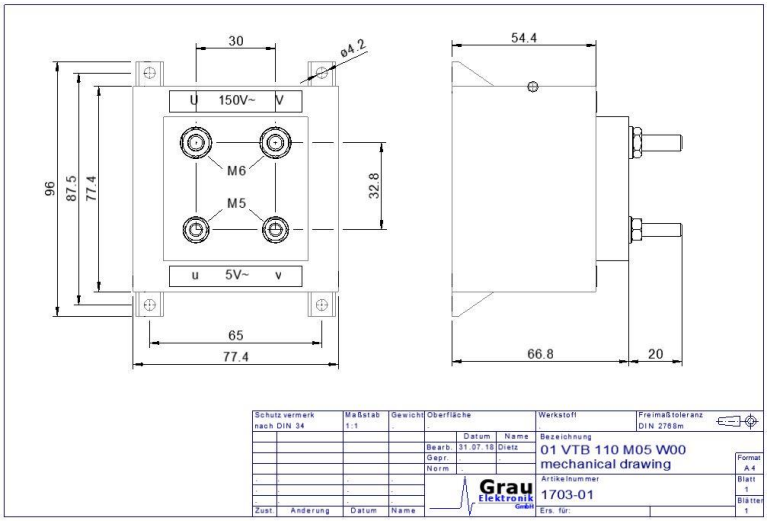
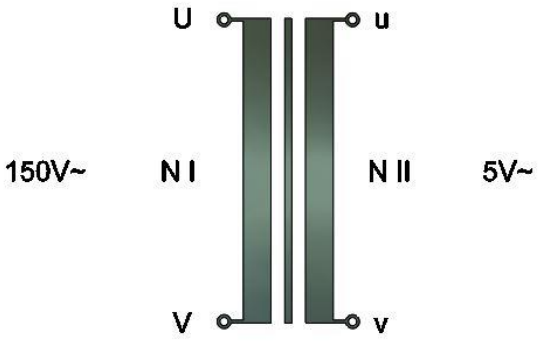
Voltage Transformer 1 VA

01 VTB 110 M05 W00 Art. No.: 1703 - 01

V_{In} = 150 V~ V_{Out} = 5 V~

Dimensions:





50 Hz Voltage Measurement Transformer

f = 50 Hz

Vin	$V(N_I)$	$V(N_{II})$
	Transfer ratio	
0 V~ … 180V~	30	1

Design acc. ISO 9001: 2015

Input to Output Isolation Voltage: 4kV rms, 50Hz t = 1 minute type test, routine tests 10 sec. ramp DC-voltage

Measurement accuracy: ≤ 1.0% - 40°C ≤ T_A ≤ + 85°C,

Low magnetization current and very low copper losses

Low stray inductance: ≤ 1% L_{nom}

All transformers single piece tested at factory in Karlsbad, Germany

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SYMBOL	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
INPUT, OUTPUT						
V_{in}	Input voltage		0	120	180	V~
TR	**T**ransformation **r**atio Vin | Vout			30 : 1		
V_{out}	Output voltage			4	6	V~
Load	Resistive burden			25		Ω
f_{sw}	Frequency operation range		47	50	63	Hz
I_{out}	Output current at resistive burden	25Ω		0.2		A
L_I	Primary inductance	f = 100Hz measurement frequency	7,3	11	16,5	mH
L_{II}	Secondary inductance		6600	9900	14850	mH
ISOLATION						
	1 minute @ type test	Input || Output	4.0			kV_{ac}
	Ramp 2s 10s 2s @ piece unit test	Input || Output		5.65		kV_{dc}
	Repetition tests with lower voltage recommended e.g. 80%					
PROTECTION						
	Housing potted, plastic cover			IP 54		
	Tropical resistant					
Connecting	Input	M6 screw bolt				
	Output	M5 screw bolt				
Weight				0.9		kg

AMBIENT CONDITIONS

$T_{Amb\ op}$	Operating temperature range	EN 50155 class Tx 10 min.	- 50 + 70		+ 85 + 85	°C °C
$T_{Storage}$	Storage temperature range		- 50		+ 100	°C
	Cooling		Free convection			
	Huminidy	EN 50155, IEC 60571	75% averaged per year, 95% 30 days			
	Vibration / Shock	IEC 61373, IEC 68 – 2 - 27 Kat. I: 3 Shocks each Axis	50 m / s² , 30 ms			
Referenced standards						
	EN 50155: 2018	EN 50124 - 1	EN 61373: 2018 - 01			
	EN 50163: 2008 - 02	EN 60529 2014 - 09				

Attention: the transformer may be used only for ac applications. There is no self protection against DC overload at input terminals!