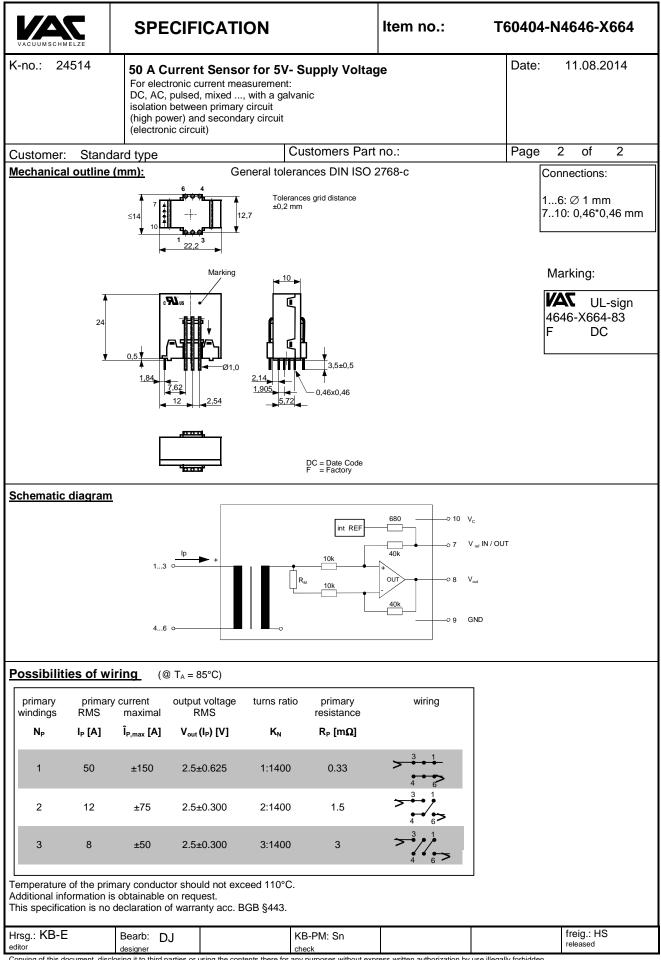
VACUUMSCHMELZE	SPECIFICATION	Item no.:	T60404-N4	646-X664
۲-no.: 24514	<b>50 A Current Sensor for 5V- Supply</b> For electronic current measurement: DC, AC, pulsed, mixed, with a galvanic isolation between primary circuit (high power) and secondary circuit (electronic circuit)	Voltage	Date:	11.08.2014
Customer: Stand	dard type Customer	rs Part no.:	Page 1	of 2
Description Closed loop (compe Current Sensor with field probe Printed circuit board Casing and materia	Characteristics           ensation)         • Excellent accuracy           n magnetic         • Very low offset current           of mounting         • Very low temperature depender	Applications         Mainly used fo         applications:         ncy and offset         • AC variate         drives         rrent         • Static cor         • Battery su         • Switched         • Power Su	-	on in industrial d servo motor or drives lies (SMPS) applications
Electrical data – Ra		50		۸
I <sub>PN</sub>	Primary nominal r.m.s. current	50	) <sub>Ref</sub> ± (0.625*I <sub>P</sub> /I <sub>PN</sub> )	A V
V <sub>out</sub>	Output voltage @ I <sub>P</sub>			V
V <sub>out</sub> V <sub>Ref</sub>	Output voltage @ I <sub>P</sub> =0, T <sub>A</sub> =25°C External Reference voltage range		Ref ± 0.000725	V
V Ref	Internal Reference voltage	-	+ .5 ±0.005	V
K <sub>N</sub>	Turns ratio		3 : 1400	v
I NN				
<u> Accuracy – Dynam</u>	ic performance data	min. typ.	max.	Unit
I <sub>P,max</sub>	Max. measuring range	±150	max.	Unit
X	Accuracy @ I <sub>PN</sub> , T <sub>A</sub> = 25°C		0.7	%
ε∟	Linearity		0.1	%
V <sub>out</sub> - V <sub>Ref</sub>	Offset voltage @ I <sub>P</sub> =0, T <sub>A</sub> = 25°C		±0.725	mV
$\Delta$ V <sub>o</sub> / V <sub>Ref</sub> / $\Delta$ T	Temperature drift of Vout @ IP=0, VRef =2,5V	/, T <sub>A</sub> = -4085°C 0.7	7	ppm/°C
t <sub>r</sub>	Response time @ 90% von I <sub>PN</sub>	300		ns
∆t (I <sub>P,max</sub> )	Delay time at di/dt = 100 A/ $\mu$ s	200		ns
f	Frequency bandwidth	DC200		kHz
Seneral data				
		min. typ.	max.	Unit
T <sub>A</sub>	Ambient operating temperature	-40	+85	°C
Ts	Ambient storage temperature	-40	+85	°C
m	Mass	12		g
Vc	Supply voltage	4.75 5	5.25	V
I <sub>C</sub>	Current consumption	15		mA
	Constructed and manufactored and tested i Reinforced insulation, Insulation material gr		)-5-1 (Pin 1 - 6 to F	Pin 7 – 10)
S <sub>clear</sub>	Clearance (component without solder pad)	7.4		mm
Screep	Creepage (component without solder pad)	8.0 DMC	200	mm
V	System voltageovervoltage category 3Working voltage(tabel 7 acc. to EN6180	RMS	300	V
V <sub>sys</sub> Vwork		RMS	650	V
V <sub>sys</sub> V <sub>work</sub>	overvoltage category 2	IXIVIO		
	overvoltage category 2 Rated discharge voltage	peak value	1320	V
V <sub>work</sub> U <sub>PD</sub>	Rated discharge voltage			
V <sub>work</sub> U <sub>PD</sub>	<b>v</b> v <i>i</i>	peak value	1320	V V <sub>AC</sub>
V <sub>work</sub> U <sub>PD</sub> Max. potential di	Rated discharge voltage	peak value	1320	
V <sub>work</sub> U <sub>PD</sub> Max. potential di	Rated discharge voltage	peak value RMS	1320 600	V <sub>AC</sub>
V <sub>work</sub> U <sub>PD</sub> Max. potential di Date Name Is	Rated discharge voltage	peak value RMS	1320 600	V <sub>AC</sub>

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VACUUMSCHMELZE	Additional Information	Item No.:	Г60404-N464	6-X664
No.: 24514	<b>50 A Current Sensor for 5V- Supp</b> For the electronic measurement of currents: DC, AC, pulsed, mixed, with a galvanic Isolation between the primary circuit (high power) and the secondary circuit	bly Voltage	Date:	11.08.2014
ustomer:	Custome	ers Part No.:	Page 1	of 2
ectrical Data				11
V <sub>Ctot</sub>	Maximum supply voltage (without function)	<mark>min. typ.</mark>	max. 7	Unit V
lc	Supply Current with primary current	15mA +lp*K <sub>N</sub> +V <sub>c</sub>	ut/RL	mA
lout,SC	Short circuit output current	±20		mA
R <sub>P</sub>	Resistance / primary winding @ T <sub>A</sub> =25°C	1		mΩ
Rs	Secondary coil resistance @ T <sub>A</sub> =85°C		35	Ω
R <sub>i,Ref</sub>	Internal resistance of Reference input	670		Ω
R <sub>i</sub> ,(V <sub>out</sub> )	Output resistance of Vout		1	Ω
RL	External recommended resistance of $V_{out}$	1		kΩ
CL	External recommended capacitance of Vout		500	pF
ΔΧ <sub>ΤΙ</sub> / ΔΤ	Temperature drift of X @ $T_A = -40 \dots +85 \circ C$		40	ppm/K
$\Delta V_0 = \Delta (V_{out} - V_{Ref})$	Sum of any offset drift including:	2	6	mV
V <sub>0t</sub>	Longtermdrift of V <sub>0</sub>	1		mV
V <sub>0T</sub>	Temperature drift von V <sub>0</sub> @ T <sub>A</sub> = -40+85			mV
V <sub>0H</sub>	Hysteresis of V <sub>out</sub> @ I <sub>P</sub> =0 (after an overload of	of 10 x I <sub>PN</sub> )	1	mV
$\Delta V_0 / \Delta V_C$	Supply voltage rejection ratio		1	mV/V
V <sub>oss</sub>	Offsetripple (with 1 MHz- filter first order)		35	mV
V <sub>oss</sub>	Offsetripple (with 100 kHz- filter firdt order)	2	5	mV
V <sub>oss</sub>	Offsetripple (with 20 kHz- filter first order)	0.6	1	mV
				<b>۳</b> ۲
k	Maximum possible coupling capacity (prima Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc		10 30g	pF
<u>ispection</u> (Measu V <sub>out</sub> (SC) ( <sup>\</sup>	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref	ours room temperature), SC = signifi	10 30g cant characteristi 625±0,7%	c mV
<u>spection</u> (Measu V <sub>out</sub> (SC) (\ V <sub>out</sub> –V <sub>Ref</sub> (I <sub>P</sub> =0) (\	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at a V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage	ours room temperature), SC = signifi	10 30g cant characteristi 625±0,7% ± 0.725	c mV mV
<u>spection</u> (Measu V <sub>out</sub> (SC) (\ V <sub>out</sub> –V <sub>Ref</sub> (I <sub>P</sub> =0) (\ V <sub>d</sub> (\	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10	ours room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz)	$10$ $30g$ cant characteristi $625\pm0,7\%$ $\pm 0.725$ $1.5$	c mV mV kV
I <mark>spection</mark> (Measu V <sub>out</sub> (SC) (\ V <sub>out</sub> –V <sub>Ref</sub> (I <sub>P</sub> =0) (\ V <sub>d</sub> (\	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at a V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s	ours room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz)	10 30g cant characteristi 625±0,7% ± 0.725	c mV mV
<mark>Nspection</mark> (Measu V <sub>out</sub> (SC) (N V <sub>out</sub> –V <sub>Ref</sub> (Ip=0) (N V <sub>d</sub> (N V <sub>e</sub> (A	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS)	ours room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz)	10 30g cant characteristi $625\pm0,7\%$ $\pm 0.725$ 1.5 1400	c mV mV kV
n <u>spection</u> (Measu V <sub>out</sub> (SC) (\ V <sub>out</sub> –V <sub>Ref</sub> (I <sub>P</sub> =0) (\ V <sub>d</sub> (\ V <sub>e</sub> ( <i>A</i> V <sub>e</sub> ( <i>A</i>	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS)	ours room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz) M3024 (RMS)	10 30g cant characteristi $625\pm0,7\%$ $\pm 0.725$ 1.5 1400	c mV mV kV
N <mark>spection</mark> (Measu V <sub>out</sub> (SC) (\ V <sub>out</sub> –V <sub>Ref</sub> (I <sub>P</sub> =0) (\ V <sub>d</sub> (\ V <sub>e</sub> ( <i>I</i> V <sub>e</sub> ( <i>I</i> V <sub>e</sub> ( <i>I</i> V <sub>w</sub> V <sub>d</sub> (Pin V <sub>w</sub> V <sub>d</sub>	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS) 1 - 6 to Pin 7 - 10) HV transient test according to M3064 (1,2 ) Testing voltage to M3014	purs room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz) M3024 (RMS) us / 50 μs-wave form) (5 s)	10 30g cant characteristi 625±0,7% ± 0.725 1.5 1400 1750 8 3	c mV kV V V V
I <mark>spection</mark> (Measu V <sub>out</sub> (SC) (\ V <sub>out</sub> -V <sub>Ref</sub> (I <sub>P</sub> =0) (\ V <sub>d</sub> (\ V <sub>e</sub> ( <i>I</i> V <sub>e</sub> ( <i>I</i> V <sub>e</sub> ( <i>I</i> V <u>v</u> V <u>v</u> (Pin V <sub>w</sub> V <sub>d</sub>	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS) 1 - 6 to Pin 7 - 10) HV transient test according to M3064 (1,2 ) Testing voltage to M3014 Partial discharge voltage acc.M3024 (RMS)	purs room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz) M3024 (RMS) us / 50 μs-wave form) (5 s)	10 30g cant characteristi 625±0,7% ± 0.725 1.5 1400 1750 8 3 1400	c mV kV V V V
nspection (Measu V <sub>out</sub> (SC) (\ V <sub>out</sub> –V <sub>Ref</sub> (Ip=0) (\ V <sub>d</sub> (\ V <sub>e</sub> (A	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS) 1 - 6 to Pin 7 - 10) HV transient test according to M3064 (1,2 ) Testing voltage to M3014	purs room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz) M3024 (RMS) us / 50 μs-wave form) (5 s)	10 30g cant characteristi 625±0,7% ± 0.725 1.5 1400 1750 8 3	c mV kV V V V
Aspection (Measu V <sub>out</sub> (SC) (' V <sub>out</sub> -V <sub>Ref</sub> (I <sub>P</sub> =0) (' V <sub>d</sub> (' V <sub>e</sub> ( <i>A</i> V <sub>e</sub> ( <i>A</i> V <sub>e</sub> V <sub>d</sub> V <sub>d</sub> V <sub>d</sub> V <sub>e</sub> Pplicable docum	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS) 1 - 6 to Pin 7 - 10) HV transient test according to M3064 (1,2 p Testing voltage to M3014 Partial discharge voltage acc.M3024 (RMS with V <sub>vor</sub> (RMS)	purs room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz) M3024 (RMS) us / 50 μs-wave form) (5 s)	10 30g cant characteristi $625\pm0,7\%$ $\pm 0.725$ 1.5 1400 1750 8 3 1400 1750	c mV kV V V V
<b>hspection</b> (Measu         Vout (SC)       (N         Vout – VRef (IP=0)       (N         Vd       (N         Ve       (N         Vpe       (A         Vpe       (A         Vpe       (A         Vw       Vd         Ve       (A         pplicable docum       urrent direction: A princlosures according	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at re V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS) 1 - 6 to Pin 7 - 10) HV transient test according to M3064 (1,2 p Testing voltage to M3014 Partial discharge voltage acc.M3024 (RMS with V <sub>vor</sub> (RMS) ents	purs room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz) M3024 (RMS) us / 50 μs-wave form) (5 s)	10 30g cant characteristi $625\pm0,7\%$ $\pm 0.725$ 1.5 1400 1750 8 3 1400 1750	c mV kV V V V
Aspection (Measu Vout (SC) (N Vout—VRef (IP=0) (N Vd (N Ve (A Ye (A	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS) 1 - 6 to Pin 7 - 10) HV transient test according to M3064 (1,2 p Testing voltage to M3014 Partial discharge voltage acc.M3024 (RMS with V <sub>vor</sub> (RMS) ents positive output current appears at point V <sub>out</sub> , by primary to IEC529: IP50.	purs room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz) M3024 (RMS) us / 50 μs-wave form) (5 s)	10 30g cant characteristi $625\pm0,7\%$ $\pm 0.725$ 1.5 1400 1750 8 3 1400 1750	c mV kV V V V
Vout (SC) (N Vout-V <sub>Ref</sub> (Ip=0) (N Vd (N Ve (A Ve (A) Ve (A)	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at a V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS) 1 - 6 to Pin 7 - 10) HV transient test according to M3064 (1,2 p Testing voltage to M3014 Partial discharge voltage acc.M3024 (RMS with V <sub>vor</sub> (RMS) ents positive output current appears at point V <sub>out</sub> , by primar to IEC529: IP50. 508, file E317483, category NMTR2 / NMTR8	purs room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz) M3024 (RMS) us / 50 μs-wave form) (5 s) )	10 30g cant characteristi 625±0,7% ± 0.725 1.5 1400 1750 8 3 1400 1750	c mV kV V V
aspection       (Measu         Vout (SC)       (N         Vout—VRef (IP=0)       (N         Vd       (N         Ve       (N         vpe Testing       (Pin         Vw       V         Vd       Ve         pplicable docum         urrent direction: A preclosures according         urther standards UL         atum       Name	Mechanical stress according to M3209/3 Settings: 10 – 2000 Hz, 1 min/Octave, 2 hc rement after temperature balance of the samples at 1 V) M3011/6: Output voltage vs. external ref V) M3226: Offset voltage V) M3014: Test voltage, rms, 1 s pin 1 – 6 vs. pin 7 – 10 AQL 1/S4) Partial discharge voltage acc.N with V <sub>vor</sub> (RMS) 1 - 6 to Pin 7 - 10) HV transient test according to M3064 (1,2 p Testing voltage to M3014 Partial discharge voltage acc.M3024 (RMS with V <sub>vor</sub> (RMS) ents positive output current appears at point V <sub>out</sub> , by primar to IEC529: IP50. 508, file E317483, category NMTR2 / NMTR8	purs room temperature), SC = signifi erence (I <sub>P</sub> =3x10As, 40-80Hz) M3024 (RMS) Us / 50 μs-wave form) (5 s) ) y current in direction of the arrow 0Hz → Ip=3x10As, 40-80Hz and	10 30g cant characteristi 625±0,7% ± 0.725 1.5 1400 1750 8 3 1400 1750	c mV kV V V

tr: Res at IF Δt (I <sub>Pmax</sub> ): Dela mea UPD Ratec UPD Ratec UPD Vvor Define Vvor Define Vvor Syste Vvor Vsys Syste Vwork Worki Vo: Offs Vo= VoH: Zero VoH: Zero Xi: Pern X xges(IPN): Pern			0404-N4646-X664
Explanation of tr: Res at IF Δt (IPmax): Dela mea UPD Ratec UPD Ratec UPD Vvor Define test in Vvor Vsys Syste Vwork Worki Vor: Offs Vor: Offs Vor: Zerc Vor: Lon X: Pern X ges(IPN): Pern	<b>50 A Current Sensor for 5V- Supp</b> For the electronic measurement of currents: DC, AC, pulsed, mixed, with a galvanic Isolation between the primary circuit (high power) and the secondary circuit	ly Voltage	Date: 11.08.2014
tr: Res at IF Δt (I <sub>Pmax</sub> ): Dela mea UPD Ratec UPD Ratec UPD Vvor Define Vvor Define Vvor Syste Vvor Vsys Syste Vwork Worki Vo: Offs Vo= VoH: Zero VoH: Zero Xi: Pern X xges(IPN): Pern	Custome	ers Part No.:	Page 2 of 2
at I <sub>F</sub> ∆t (I <sub>Pmax</sub> ): Dela mea UPD Ratec UPD Ratec UPD Vvor Define test in Vvor Vsys Syste Vwork Worki V₀: Offs V₀ = V₀H: Zerc V₀H: Zerc X Xges(I <sub>PN</sub> ): Pern X <sub>ges</sub>	n of several of the terms used in the tablets (in alph	abetical order)	
mea UPD Ratec UPD Ratec UPD Vvor Defind test in Vvor Vsys Syste Vwork Worki Vo: Offs Vo= VoH: Zerd VoH: Zerd VoH: Lon X: Pern X ges(IPN): Pern	Response time (describe the dynamic performance for at $I_P = 0.9$ $^{\circ}$ $I_{PN}$ between a rectangular current and the		nge), measured as delay time
UPD Vvor Define test in Vvor Vsys Syste Vwork Worki Vo: Offs Vo= Voh: Zero Voh: Lon X: Pern X ges(IPN): Pern X <sub>ges</sub>	Delay time (describe the dynamic performance for the measured between $I_{\text{Pmax}}$ and the output voltage $V_{\text{out}}(I_{\text{P}}$		-
test ir V <sub>vor</sub> V <sub>sys</sub> Syste V <sub>work</sub> Worki V <sub>0</sub> : Offs V <sub>0</sub> : Zero V <sub>0</sub> : Lon X: Pern X X <sub>ges</sub> (I <sub>PN</sub> ): Pern X <sub>ges</sub>	Rated discharge voltage (recurring peak voltage separated $J_{PD}$ = $\sqrt{2} * V_e / 1,5$	ted by the insulation) proved wi	th a sinusoidal voltage $V_{\rm e}$
V <sub>sys</sub> Syste V <sub>work</sub> Worki V <sub>0</sub> : Offs V <sub>0</sub> : Zero V <sub>01</sub> : Lon X: Pern X X <sub>ges</sub> (I <sub>PN</sub> ): Pern X <sub>ges</sub>	Defined voltage is the RMS valve of a sinusoidal voltage est in IEC 61800-5-1	e with peak value of 1,875 * U <sub>PC</sub>	o required for partial discharg
V <sub>work</sub> Worki V <sub>0</sub> : Offs V <sub>0</sub> : Zerc V <sub>0</sub> I: Lon X: Pern X X <sub>ges</sub> (I <sub>PN</sub> ): Pern X <sub>ges</sub>	$v_{\rm vor} = 1,875  {}^*{\rm U}_{\rm PD}  /  \sqrt{2}$		
V <sub>0</sub> : Offs V <sub>0</sub> : Zero V <sub>01</sub> : Lon X: Pern X X <sub>ges</sub> (I <sub>PN</sub> ): Pern X <sub>ges</sub>	system voltage RMS value of rated voltage according	ng to IEC 61800-5-1	
Vo= VoH: Zerr Vot: Lon X: Perr X Xges(IPN): Perr X <sub>ges</sub>	Vorking voltage voltage according to IEC 61800-5-1	which occurs by design in a cir	cuit or across insulation
V <sub>0t</sub> : Lon X: Perr X X <sub>ges</sub> (I <sub>PN</sub> ): Perr X <sub>ges</sub>	Offset voltage between V <sub>out</sub> and the rated reference voltage V <sub>o</sub> = V <sub>out</sub> (0) - 2,5V	bltage of $V_{ref} = 2,5V.$	
X: Peri X X <sub>ges</sub> (I <sub>PN</sub> ): Peri X <sub>ge</sub>	Zero variation of $V_{\mbox{\scriptsize o}}$ after overloading with a DC of tenform	old the rated value	
X X <sub>ges</sub> (I <sub>PN</sub> ): Peri X <sub>ge</sub>	Long term drift of $V_o$ after 100 temperature cycles in th	ne range -40 bis 85 °C.	
X <sub>ges</sub> (I <sub>PN</sub> ): Peri X <sub>ge</sub>	Permissible measurement error in the final inspection at $X = 100 \cdot \left  \frac{V_{out}(I_{PN}) - V_{out}(0)}{0.625 V} - 1 \right  \%$	at RT, defined by	
X <sub>ge</sub>	$X = 100 \cdot \left  \frac{-0.01 - 11}{0,625 \text{V}} - 1 \right  \%$		
ε <sub>L</sub> : Line	$ \begin{array}{l} \text{Permissible measurement error including any drifts over } \\ X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.625V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.65V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.65V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.65V} - 1 \right   \text{\% or}  X_{\text{ges}} = 100 \cdot \left  \frac{V_{\text{out}} \left( I_{\text{PN}} \right) - 2.5V}{0.65V} - 1 \right   X_{\text{ges}} = 100 \cdot 1$		
	Linearity fault defined by $\mathcal{E}_{\rm L} = 100 \cdot \left  \frac{I_{\rm P}}{I_{\rm PN}} - \frac{V_{out}}{V_{out}} \right $	$\frac{(I_P) - V_{out}(0)}{(I_{PN}) - V_{out}(0)} \bigg  \%$	
This "Additional	onal information" is no declaration of warranty according	g BGB §443.	
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