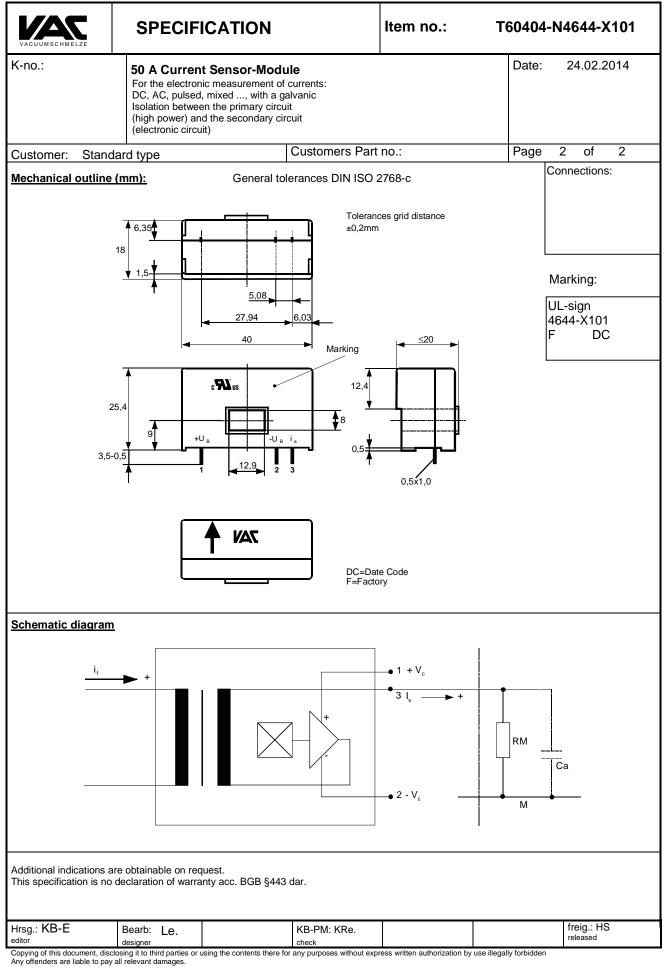
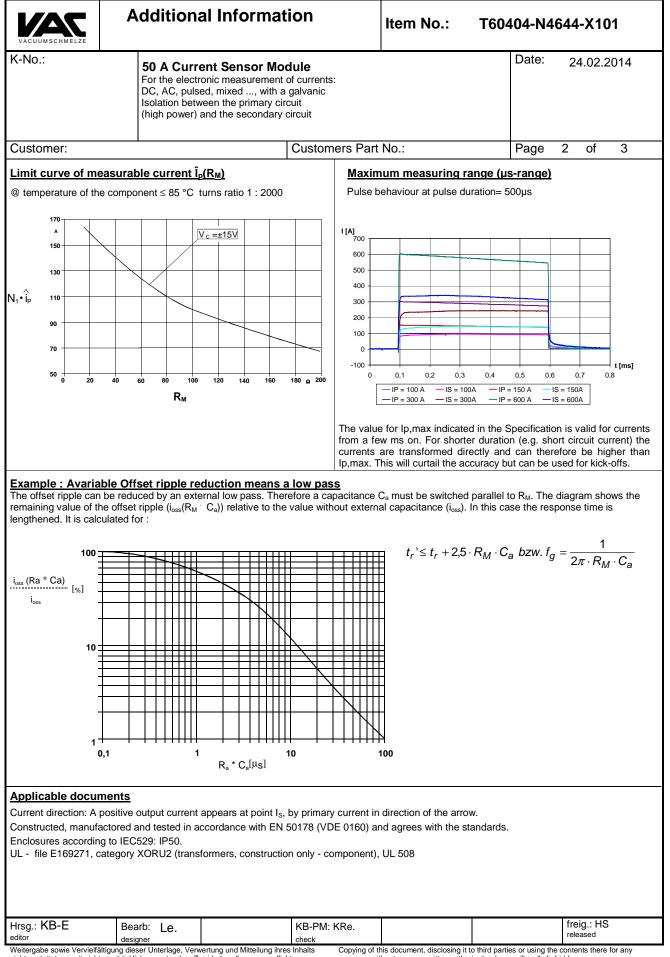
VACUUMSCHMELZE	SPECIFICATIO	N Item	n no.:	T60404-N4	4644-X101
≺-no.:	50 A Current Sensor-N For the electronic measureme DC, AC, pulsed, mixed, wit Isolation between the primary (high power) and the seconda (electronic circuit)	ent of currents: h a galvanic circuit		Date:	24.02.2014
Customer: Stan	dard type	Customers Part no.:		Page 1	of 2
Description Closed loop (comp Current Sensor with field probe Printed circuit boar Casing and materia	ensation) h magnetic d mounting	uracy et current perature dependency and offset eresis of offset current e time cy bandwidth	 applications: AC variab drives Static cor Battery st Switched Power Su 	stationary operation the speed drives are averters for for DC upplied application Mode Power Supplies for welding pplies for welding ptable Power Supl	nd servo motor motor drives s blies (SMPS) applications
lectrical data - Ra	atinas				
I _{PN}	Primary nominal r.m.s. curr	ent		50	А
R _M	Measuring resistance			15 200	Ω
I _{SN}	Secondary nominal r.m.s. c	urrent		25	mA
K _N	Turns ratio			1 : 2000	
Accuracy – Dynam	nic performance data	min.	typ.	max.	Unit
I _{P,max}	Max. measuring range @ R	_M =15 Ω -165		+165	А
X*	Accuracy @ I _{PN} , T _A = 25°C		0,1	0,5	%
εL	Linearity			0,1	%
	Offset current @ $I_P=0$, $T_A=1$	25°C	0,02	0,05	mA
t _r	Response time		-,	3	μs
∆t (I _{P,max})	Delay time at di/dt = 100 A/			1	μs
f	Frequency bandwidth	DC	100		kHz
General data					
		min.	typ.	max.	Unit
T _A	Ambient operating tempera	ture -40		+85	°C
Ts	Ambient storage temperatu	re -40		+85	°C
m	Mass			30	g
V _C	Supply voltage	±14,2	25 ±15	±15,75	V
I _C	Current consumption			18	mA
Vb		Pollution degree 2, supply (effective) lains supply (DC)	600 800 8	V V mm	
Max.duration of pe	eak currents at definied temp	<u>eratures</u>			
T _A 50	70 <u>85</u> ℃				
I _P 120	100 <u>50</u> A				
I _{P,max} 165	165 <u>160</u> A				
Rм <mark>15</mark>	15 <u>20</u> Ω				
	is verified by final inspection, other	values are typetested.			
		4644X101 → 4644-X101. CN-8	48		
24.02.14 KRe.					
	84 Mechancial outline: markin				
					freig.: HS released

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VACUUMSCH	MELZE	A	dditiona	I Informat	ion	Ite	m No.:	Т6	60404-	N4644	4-X101	
K-No.:			For the electro DC, AC, pulsed Isolation betwee	nt Sensor Moo nic measurement o d, mixed, with a een the primary cirr nd the secondary o	of currents: galvanic cuit				Dat	e: 2	24.02.2014	
Customer			1		Customers	Part No.:			Pag	je 1	of 3	
Description Characteristics • Closed loop (compensation) Current Sensor with magnetic • Excellent accurace • Very low offset cu					y Mainly used for sta applications: • AC variabel s drives • Static conver • Battery suppl • Switched Mo • Power Suppli				stationary I speed c rerters for oplied app Node Pow oplies for	ationary operation in industrial speed drives and servo motor ters for for DC motor drives lied applications de Power Supplies (SMPS) ies for welding applications ole Power Supplies (UPS)		
Electrical	<u>Data</u>					min.	tı	yp.	max.		Unit	
V _{Ctot}		M	avimum sunnh	y voltage (without	function)			/ P .	±18		V	
V Ctot Rs				esistance @ T _A =					±10 120		ν Ω	
к _s Х _{ті}				ft of X @ $T_A = -4$					0,1		%	
									•			
l _{0ges}			ffset current dr	ncluding I ₀ , I _{0t} , I ₀₁	.)		_		0,05 0,05		mA	
l _{Ot}					@ T 40	. 0500			0,05		mA m A	
I _{OT}			yteresis curren	mperature drift l	$1_{A} = -40$	+85°C	_		0,05		mA mA	
I _{0H}				ary current 3 x I_{P1}	N				0,075	,	mA	
i _{oss}			ffest ripple						1		mA	
$\Delta I_0 / \Delta V_C$		S	upply voltage r	ejection ratio					0,01		mA/V	
C _k				ble coupling capa	acity				9		pF	
		pr	imary – secon		-				0~			
				000 Hz, 1 min/Ol		S			2g			
Inspection	<u>ı</u> (Meas	uremen	t after temperatu	ure balance of the	samples at roo	m temperatu	ure)					
K _N (N1/N	2)*	(V)	M3011/6:	Transforma	ation ratio (I1=	5A, 40-80	Hz)	= 1 : 200	00 ± 0,5	%		
l ₀ *		(V)	M3226: Offset current < 0,05			mA						
V _d *		(V)	M3014:	Test voltag Pin 1 - 3 to F	e, rms, 1s Primary conduc	tor		3		kV		
Type Testi	ina											
					ettings :	V _{d,max} R _i 1.2 us /	= 8 kV = 60 Ω 50 μs-way	veform				
				3 i	in a cycle of t				polarity			
Test volta	ade and	Inartia	l discharge vol	tage according to	-	Vd		4,4	kV	60s		
Pin 1 - 3 to				tage according to	5 110024	Ve		1,0	kV	000		
FIII I - 3 K	JEIIIIai	y condu	CIOI			ve	2	1,0	ΓV			
All data mar	ked with	* is ver	ified by final insp	pection, other value	es are typeteste	ed.						
Dotum I	lome	Index	Änderung									
	Name KRe	Index 84	Anderung Date updated.	CN-848								
	KRe.	84		cuments: UL-File E	169271 added	. VDE-regist	ration canc	celled. ÄA	-635			
Hrsg.: KB-E		Re	arb: Le.		KB-PM: KRe					fre	eig.: HS	
L	_					•					leased	
editor		desi	igner		check					10	easeu	



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