Maximum Operating Voltage Maximum Isolation Voltage	$V_{O(max)}$	l₀# < 50 µAl	DC T -	7000			•			
	- (- /	Condition / Comment I _{off} < 50 µADC, T _{case} = 70°C					± 90	± 100	kVDC	
	V_{l}	Between HV switch and control / GND, continuously					120		kVDC	
Max. Housing Insulation Voltage	V _{INS}	Between switch and housing surface, 3 minutes					150		kVDC	
Maximum Turn-On Peak Current	I _{P(max)}	$T_{case} = t_0 < 200 \mu s$, duty cycle <1%				-	100			
maximum rum on roun our on	'F(IIIax)	25°C	t₀< 1 ms, d					59	ADC	
		200	t _p < 10 ms,	, ,				36	7.50	
Max. Housing Insulation Voltage Maximum Turn-On Peak Current Maximum Continuous Load Current Max. Continuous Power Dissipation				s, duty cycle <1%		27				
Mariana Carlina da La de Carrel		1 1 1							400	
Maximum Continuous Load Current	I _{L(max)}	T _{case} = Standard devices					0.6		ADC	
		25°C Devices with option DLC				,		.19		
Max. Continuous Power Dissipation	$P_{d(max)}$	T _{case} = Standard devices & FC, forced air 4 m/s				m/s	57	64		
									Watt	
Linear Derating		· · · · · · · · · · · · · · · · · · ·				m/s				
							40	43.7	W/K	
Operating Temperature Range	To	Standard devices & options CF, GCF, ILC. (Option DLC)					-4075		C°	
Storage Temperature Range	Ts	Switches with option ILC may require frost protection!					-4090		C°	
Max. Permissible Magnetic Field	В	Homogeneous steady-field, surrounding the whole switch							mT	
	Vaux								VDC	
		Dank in overveitage innition (copiassasis)							kVDC	
		NOTE: Valis a test parameter for quality							-	
Typical breakdown voltage	V br						99	110	kVDC	
Typical Off-State Current	I _{off}	0.8xV _O , T _{case} =2570°C, reduc			ced loff on reques	it		20	μADC	
									<u> </u>	
7	5(0)									
									Ohm	
Residual Voltage	V				i.o A iP(max), I ca				Onin	
	v res	T _{case} = 25°C								
						_				
	t _{d(on)}	Resistive load, 0.1 x I _{P(max)} , 0.8 x V _{O(r}			x V _{O(max)} , 50-50	6			ns	
• • • • • • • • • • • • • • • • • • • •	tj								ns	
Typical Turn-On Rise Time	t _{r(on)}	Resistive load, 10-90%								
Typical Turn-Off Rise Time Maximum Turn-On Time Minimum Turn-On Time Maximum Turn-Off Time Minimum Turn-Off Time				$0.8 \text{ x V}_{O(max)}, I_L = 0.1 \text{ x } I_{p(max)}$		(90			
					0.8 x V _{O(max)} , I _L	= 1.0 x I _{p(max)}	1	10	ns	
Typical Turn-Off Rise Time t _{off} , t		Resistive load. 10-90%					4	10	ns	
,,	,,									
Maximum Turn-On Time	ton(max)	No limitation								
							2	50	ns	
									113	
	. ,	1								
									ns	
	t _(max)									
		Sw. shutdown if f _{freed} is Standard devices with HFS supply Opt. HFS + sufficient cooling option								
						cooling option			kHz	
<u> </u>		Use option HFB for >10 pulses within 20µs or less				ess	5	00	kHz	
		@ f _{b(max)} Standard				Standard		10 Use option HFB for >150	Pulses	
						Option I-HFB				
		rating of > 630VDC and a cpacitance of 100nF per additional Option HFB					>1	>1000		
Counling Canacitance	Cc								pF	
1 0 1									pF	
									VDC	
	+.								VDC	
ı ypıcaı Auxiliary Supply Current										
5 40: 10: 1			O () /						mADC VDC	
Fault Signal Output							$H=\overline{4V}$	H=4V, L=0.5V		
		Fault condition is indicated by a logical "L"								
Opt. HFS, Ext. Supply Voltage V1	V _{HFS(V1)}	Stability ±3%, current consumption <0.4 mA/kHz @ 25°C				lz @ 25°C	15		VDC	
Opt. HFS, Ext. Supply Voltage V2	V _{HFS(V2)}	Stability ±3%, current consumption <0.9 mA/kHz @ 25°C					450		VDC	
Intrinsic Diode Forward Voltage	V _F	T _{case} = 25°C, I _F = 10A					<50		VDC	
	+								ns	
Blodd Novolso Nosovely Time							•			
					, (0000 i DA)					
Dimensions	V V ~	· · · · · · · · · · · · · · · · · · ·					Diagram	Dia	-	
Dimensions Lxv Weight		· ·							mm ³	
		Tubulat Housing, option in (EXD)					manutactured!	manutactured!	''''''	
Weight	1	Standard housing					Please contact the			
* Wording			Tubular Housing, option TH						g	
Recommended Options:	· · · · · · · · · · · · · · · · · · ·					เแลแนเละนะ		ı s		
Ontion I P Low Pass. Input filte										
	Coperating Temperature Range Storage Temperature Range Max. Permissible Magnetic Field Max. Auxilliary Voltage Permissible Operating Voltage Range Typical Breakdown Voltage Typical Off-State Current Typical Turn-On Resistance Residual Voltage (Total Voltage drop in on-state) Typical Turn-On Rise Time Typical Turn-On Rise Time Typical Turn-Off Rise Time Maximum Turn-On Time Minimum Turn-Off Time Max. Continuous Switching Frequency Maximum Burst Frequency Maximum Number of Pulses / Burst Coupling Capacitance Natural Capacitance Control Voltage Range Typical Auxiliary Supply Voltage Range Typical Auxiliary Supply Voltage V1 Opt. HFS, Ext. Supply Voltage V2 Intrinsic Diode Forward Voltage Diode Reverse Recovery Time Dimensions Weight	Linear Derating Operating Temperature Range Storage Temperature Range Max. Permissible Magnetic Field B Max. Auxilliary Voltage Permissible Operating Voltage Range Typical Breakdown Voltage Typical Off-State Current Typical Turn-On Resistance Residual Voltage (Total Voltage drop in on-state) Typical Propagation Delay Time Typical Output Pulse Jitter Typical Turn-On Rise Time Typical Turn-On Rise Time Typical Turn-Off Rise Time Maximum Turn-On Time Maximum Turn-On Time Minimum Turn-Off Time Max. Continuous Switching Frequency Maximum Burst Frequency Maximum Burst Frequency Maximum Number of Pulses / Burst N(max) Coupling Capacitance Control Voltage Range Typical Auxiliary Supply Current Fault Signal Output Opt. HFS, Ext. Supply Voltage V1 Opt. HFS, Ext. Supply Voltage V2 Intrinsic Diode Forward Voltage Diode Reverse Recovery Time Weight Weight	Linear Derating Above 25°C Above 25°C Operating Temperature Range Storage Temperature Range Max. Permissible Magnetic Field B Homogened Max. Auxilliary Voltage Vo Typical Breakdown Voltage Typical Breakdown Voltage Typical Gf-State Current Typical Turn-On Resistance Typical Voltage drop in on-state) Typical Propagation Delay Time Typical Output Pulse Jitter Typical Turn-On Rise Time Maximum Turn-On Rise Time Maximum Turn-On Time Maximum Turn-On Time Maximum Turn-Off Time Max. Continuous Switching Frequency Maximum Burst Frequency Maximum Number of Pulses / Burst Nolimitatio Maximum Number of Pulses / Burst Maximum Supply Voltage Range Typical Output Maximum Number of Pulses Range Typical Auxiliary Supply Voltage V1 Nolimitatio Minimum Supply Voltage Range Vy The SU Tose = 25°C Total Voltage Range Typical Auxiliary Supply Voltage V1 Nolimitatio Nol	Linear Derating	Linear Derating 25°C Devices with option Above Standard devices & 25°C Devices with option Standard devices & options CF,	Linear Derating	25°C Devices with option DLC Devices with option DLC	25°C Devices with option DLC 3000	25°C Devices with option DLC 3000 3000 3000 3000 26°C 26	

Option S-TT
Option HFB
Option HFS
Option MIN-ON
Option MIN-OFF
Option ILC
Option DLC

Soft Transition Time. Slower switching speed for simplified EMC.
High Frequency Burst, Improved burst capability by driver.

High Frequency Switching (two auxiliary supply inputs V1 & V2)

Minimum ON-Time: Individually increased "Minimum ON-Time" to avoid unwanted triggering by input noise during this time. Please indicate the demanded ton(min) with order.

Minimum OFF-Time: Individually increased "Minimum OFF-Time" to avoid unwanted triggering by input noise during this time. Please indicate the demanded ton(min) with order.

Indirect Liquid Cooling (for water). $P_{d(max)}$ can be increased by the factor 3 to 15. Direct Liquid Cooling (for FPE/PFC). $P_{d(max)}$ can be increased by the factor 10 to 100. 15.

FOR FURTHER PRODUCT OPTIONS PLEASE REFER TO THE OPTIONS PAGE.