	Specification	Symbol	Condition / Comment						HTS 301-240 SiC	Unit		
	Maximum Operating Voltage		$V_{O(max)}$	I <sub>off</sub> < 270 μADC, T <sub>case</sub> = 70°C							30	kVDC
	Maximum Isolation Voltage		VI	Between	Between HV switch and control / GND, continuously						± 25	kVDC
35	Max. Housing Insu	V <sub>INS</sub>	Between	Between switch and housing surface, 3 minutes						± 50	kVDC	
RATINGS	Maximum Turn-Or	I <sub>P(max)</sub>	T <sub>case</sub> =	t <sub>p</sub> < 200 μs,					2400			
7			25°C						1	1400	ADC	
				$t_p$ < 10 ms, duty cycle <1%						500		
3				t <sub>p</sub> < 100 ms, duty cycle <1%						240		
3	Maximum Continuo	I <sub>L(max)</sub>	T <sub>case</sub> = Standard devices							10	ADC	
MAXIMUM	14 0 " 5		25°C							200		
	Max. Continuous Po	$P_{d(max)}$	T <sub>case</sub> = Standard devices & FC, forced air 4 m/s 25°C Devices with option DLC							140 5000	Watt	
Ę	Linear Derating		Above				d air 1 m/c			0.48	vvall	
<b>ABSOLUTE</b>	Linear Derating		Above Standard devices & FC, forced air 4 m/s 25°C Devices with option DLC				u ali 4 11/3			320	W/K	
38	Operating Temperature Range		To	Standard devices & options CF, GCF, ILC. (Option DLC)				-4070	C°			
₹	Storage Temperature Range		Ts	Switches with option ILC may require frost protection!						-4080	C°	
	Max. Permissible Magnetic Field		В	Homogeneous steady-field, surrounding the whole switch				•			25	mT
	Max. Auxilliary Voltage		V <sub>aux</sub>	Built-in overvoltage limiter (replaceable)							5.5	VDC
	Permissible Operating Voltage Range		Vo	Unipolar operation (one switch pole grounded or floated)				nded or floated	)		0 ± 30	kVDC
	Typical Breakdown Voltage		V <sub>br</sub>	NOTE: V <sub>br</sub> is a test parameter for quality   I <sub>off</sub> > 0.5 mA				l <sub>off</sub> > 0.5 m	ıΑ		33	kVDC
	Typical Off-State Current		l <sub>off</sub>	control purposes only. Not applicable in loff > 0.5 IIIA  0.8xVo, T <sub>case</sub> =2570°C, reduced l <sub>off</sub> on request			< 270	µADC				
	Typical Turn-On Resistance		R <sub>stat</sub>							0.07	μλυσ	
	Typical Turn-Off Resistance		· solal		t <sub>p</sub> < 1μs, duty cycle < 1%		0.1 x I <sub>P(max)</sub> , T <sub>case</sub> =25°C 1.0 x I <sub>P(max)</sub> , T <sub>case</sub> =25°C				0.09	
							1.0 x I <sub>P(max)</sub> , T <sub>case</sub> = 70°C				0.18	Ohm
	Typical Propagation Delay Time		t <sub>d(on)</sub>	Resistiv	esistive load, 0.1 x I <sub>P(max)</sub> , 0.8 x V <sub>O(max)</sub> , 50-50%					200	ns	
	Typical Output Pulse Jitter		tj	Impedance matched in			1 1				3	ns
	Typical Turn-On Rise Time		t <sub>r(on)</sub>	Resistive load, 10-90% $0.1 \times V_{O(max)}$ , $I_L = 0.1 \times I_{p(max)}$					( I <sub>p(max)</sub>		25	
S				$0.8 \times V_{O(max)}$ , $I_L = 0.1 \times I_{p(max)}$				$I_{O(max)}, I_{L} = 0.1$	( I <sub>p(max)</sub>		48	
				$0.8 \times V_{O(max)}$ , $I_L = 1.0 \times I_{p(max)}$						55	ns	
1/2	Maximum Turn-On Time		t <sub>on(max)</sub>	No limitation							∞	
CHARACTERISTICS	Minimum Turn-On Time		t <sub>on(min)</sub>	t <sub>on(min)</sub> can be customized. Please consult factory				factory		200	ns	
ER	Maximum Turn-Off Time		t <sub>off(max)</sub>	No limitation						∞		
2	Minimum Turn-Off Time		t <sub>off(min)</sub>	toff(min) can be customized. Please			•			200	ns	
\$	Max. Continuous Switching Frequency		$f_{(max)}$	_	@ V <sub>aux</sub> = 5.00 V Standard devices without HFS option						<5 400	
Ĭ	Frequency				Sw. shutdown if f <sub>(max)</sub> is Standard devices with HFS supply Opt. HFS + sufficient cooling option						100 200	kHz
	Maximum Burst Frequency		f	Use option HFB for >10 pulses within 20 us or less						2	MHz	
ELECTRICAL	Maximum Burst Frequency  Maximum Number of Pulses / Burst		f <sub>b(max)</sub>	<u> </u>	· · · · · · · · · · · · · · · · · · ·						> 100 Use option HFB for >150	Pulses
Ž	Maximum Number	$N_{(max)}$	@ f <sub>b(max)</sub> Standard  Option I-HFB						> 100 Use option HFB for >150 >1000	Puises		
$\mathbf{c}$				Note: Option rating of > 6	n HFB requires external 30VDC and a cpacitanc	buffer capacitor e of 100nF per	's with a volt additional	Option			>1000	
7	Coupling Capacita	Cc	HV side against control side						<100	pF		
_	Natural Capacitance		C <sub>N</sub>	Between switch poles, @ 0.5 x V <sub>O(max)</sub>						<50	pF	
	Control Voltage Range		V <sub>ctrl</sub>	The V <sub>ctrl</sub> has no impact on the output pulse shape.				se shape.			3 10	VDC
	Auxiliary Supply Voltage Range		V <sub>aux</sub>		V supply is not i						5	VDC
	Typical Auxiliary Supply Current		l <sub>aux</sub>		.00 VDC, T <sub>case</sub> =			0.01 x	f <sub>(max)</sub>		TBD	
	, , , , , , , , , , , , , , , , , , ,				Active current limitation above 1A. @ f <sub>(max)</sub>			800	mADC			
	Fault Signal Output			Switch will be turn off, if f>f <sub>(max)</sub> , V <sub>aux</sub> <4.75V or T <sub>case</sub> >75°C						H=4V, L=0.5V	VDC	
				Fault condition is indicated by a logical "L"								
	Opt. HFS, Ext. Supply Voltage V1		V <sub>HFS(V1)</sub>	Stability ±3%, current consumption <0.4 mA/kHz @ 25°C						15	VDC	
	Opt. HFS, Ext. Supply Voltage V2		V <sub>HFS(V2)</sub>	Stability ±3%, current consumption <0.9 mA/kHz @ 25°C				mA/kHz @ 25°		TBD	VDC	
	Intrinsic Diode Forward Voltage		V <sub>F</sub>		$T_{case} = 25$ °C, $I_F = 0.3 \text{ x } I_{P(max)}$ $T_{case} = 25$ °C, $I_F = 0.3 \text{ x } I_{P(max)}$ di/dt = 100 A/µs						<60	VDC
	Diode Reverse Recovery Time		trrc			I <sub>P(max)</sub> , di/d	1ax), di/dt = 100 A/µs				<50	ns
fh	Dimensions		LxWxH	Standard housing							Please contact the	mm3
×				Devices with option CF, non-isolated cooling fins Devices with option DLC							manufactured!	mm <sup>3</sup>
Ž				Standard housing							Discourse	
USINC	Weight		•	Devices with option CF, non-isolated cooling fins							Please contact the manufactured!	g
HOUSING	Weight				wiin oblion CE						manuactureu:	
HOUSING	Weight			Devices				3				
	Control Signal Input			Devices Devices with Schmit	with option DL0	ics. Control v		0 V (3-5 V recommo				
	Control Signal Input Logic GND / 5V Return	Pin 2 / Black. Ti	ne ground pin i	Devices Devices with Schmits internally c	with option DL0 t-Trigger characterist connected with the sa	ics. Control v	terminal (tl	0 V (3-5 V recommon	ottom side.			
	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output	Pin 2 / Black. The Pin 3 / Red. The Pin 4 / Orange.	ne ground pin i s 5 V input is u TTL output, sh	Devices Devices with Schmit s internally co sed for rep ra ort circuit pro	s with option DLO t-Trigger characterist connected with the sa ates up to the specific oof. Indicating switch	ics. Control v fety earthing ed max. frequ & driver over	terminal (the ency f <sub>(max)</sub> . -heat, ove	0 V (3-5 V recommended insert) on but Higher rep rates representations. Higher representations are series of the s	oottom side. equire option xiliary voltag	n HFS. ge. L = Fau	ult	
	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T	ne ground pin i e 5 V input is u TTL output, sh TL compatible	Devices Devices with Schmit s internally c sed for rep ra ort circuit pro , Schmitt-Trig	with option DLO t-Trigger characterist connected with the sa ates up to the specific	ics. Control v fety earthing ed max. frequ & driver over or the connec	terminal (the ency f <sub>(max)</sub> . -heat, ove tion of exte	0 V (3-5 V recommon hreaded insert) on to Higher rep rates re- r-frequency, low au ernal safety circuits	oottom side. equire option xiliary voltag . L = Switch	n HFS. ge. L = Fau Inhibited.		
FUNCTION HOUSING	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxilia A) Standard swit	ne ground pin in a 5 V input is u TTL output, should be ary power good ches and switch	Devices Devices with Schmitts internally control circuit programmer, Schmitt-Tright, switch OFFnes with optice	with option DLut-Trigger characterists connected with the sa ates up to the specific of. Indicating switch gger characteristics free." YELLOW: "Conton CF, GCF: Thermo to the specific of the specific or the	ics. Control v fety earthing ed max. frequ & driver over or the connec rol signal rece rigger 75°C, r	terminal (the ency f <sub>(max)</sub> , the ency f <sub>(max)</sub> , the ency find ency the ency find ency	0 V (3-5 V recomming the aded insert) on the service of the servic	oottom side. equire option xiliary voltag . L = Switch ult condition	n HFS. ge. L = Fau Inhibited. n, switch O		
	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxilia A) Standard swit	ne ground pin in a 5 V input is u TTL output, should be ary power good ches and switch	Devices Devices with Schmitts internally control circuit production, Schmitt-Tright, switch OFF nes with optice 65°C), coola	with option DL0 t-Trigger characterist connected with the sa ates up to the specific oof. Indicating switch gger characteristics fe ". YELLOW: "Cont	cics. Control v fety earthing ed max. frequ & driver over or the connec rol signal rece rigger 75°C, r rate driver prot	terminal (the ency f <sub>(max)</sub> heat, over tion of extremely eived, swittersponse tirection.	0 V (3-5 V recomment readed insert) on the Higher rep rates refrequency, low au ernal safety circuits ch ON". <b>RED</b> : "Fame < 60 s @ 3xPd(n	oottom side. equire option xiliary voltag . L = Switch ult condition	n HFS. ge. L = Fau Inhibited. n, switch O K (50 to 75	FF"	
	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxili: A) Standard swit 3 s @ 3xPd(max)	ne ground pin i  5 V input is u TTL output, sh TL compatible ary power good ches and switc , \( \Delta T = 25K \) (40 to  Option	Devices Devices  with Schmits internally control circuit proof of the control of	with option DL4 t-Trigger characterist connected with the sa ates up to the specific opf. Indicating switch gger characteristics fr en YELLOW: "Cont on CF, GCF: Thermo t on tf flow > 3/ min. Sepa Low Pass. Input filter ligh Frequency Burst	ics. Control v fety earthing ed max. frequ & driver over or the connec rol signal rece rigger 75°C, r rate driver prot for increased t (improved ce	terminal (the ency f <sub>(max)</sub> heat, over tion of extremental extensions the extremental ext	0 V (3-5 V recomming the definition of the defin	oottom side. equire option xiliary voltag L = Switch ult condition nax), $\Delta T = 25i$ Option Option	n HFS. ge. L = Fau Inhibited. n, switch O K (50 to 75 UL-94 I-FWD	FF" °C). Separate driver protection. B) Switches with option DLC: 65°C, respo Flame retardant casting resin, UL94-V0 Integrated Free-Wheeling Diode. In connection with inductive load only.	onse time <
FUNCTION	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxili: A) Standard swit 3 s @ 3xPd(max)	ne ground pin i  5 V input is u TTL output, sh TL compatible ary power goor ches and switc , \( \text{\Delta}T=25K \) (40 tc  Option  Option  Option	Devices Devices with Schmitts sinternally commended from the sed for rep report circuit produces, Schmitt-Tright, switch OFFenes with option 65°C), cooled LP LP LP HFB HFS H	with option DLt t-Trigger characterist connected with the sa ates up to the specific oof. Indicating switch gger characteristics fr "." YELLOW."Cont on CF, GCF: Thermo t nt flow > 31 / min. Sepa the specific pass. Input filter ligh Frequency Burst digh Frequency Switch	ics. Control v fety earthing ed max. frequ & driver over or the connec rol signal recr rigger 75°C, r rate driver prot for increased t (improved co	terminal (the ency f <sub>(max)</sub> heat, over tion of extremental extensions the extremental ext	0 V (3-5 V recomming the definition of the defin	oottom side. equire option xiliary voltag L = Switch ult condition nax), $\Delta T = 25$ Option Option	n HFS. ge. L = Fau Inhibited. n, switch O K (50 to 75  UL-94 I-FWD	FF" °C). Separate driver protection. B) Switches with option DLC: 65°C, respo Flame retardant casting resin, UL94-V0 Integrated Free-Wheeling Diode. In connection with inductive load only. Integrated Freewheeling Diode Network. In connection with inductive load	onse time <
FUNCTION	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxili: A) Standard swit 3 s @ 3xPd(max)	ne ground pin i  5 V input is u TTL output, sh TL compatible ary power good ches and switc , \( \Delta T = 25K \) (40 to  Option	Devices Devices Devices With Schmit Sinternally of sed for rep re ort circuit pro , Schmitt-Trir	with option DL4 t-Trigger characterist connected with the sa tes up to the specific oof. Indicating switch gger characteristics fi- ". YELLOW." Conto on CF, GCF: Thermo t on the flow > 31 / min. Sepa ow Pass. Input filter tigh Frequency Bursi tigh Frequency Switc ntegrated High Frequency High Frequency Switc on the same properties of the same	ics. Control v fety earthing ed max. frequ & driver over or the connec rol signal recr rigger 75°C, r rate driver prot for increased t (improved co ching (two aux ency Burst	terminal (the ency f <sub>(max)</sub> -heat, ove tion of extremental extensions the extremental extension of extremental extension.  In the extremental extension of extremental ex	0 V (3-5 V recommine add insert) on but he add insert) on but he add insert) on but he add insert of a distribution of the add insert of t	option   Option   Option   Option   Option   Option   Option	n HFS. ge. L = Fau Inhibited. n, switch O K (50 to 75  UL-94  I-FWD  PT-C	FF" "C). Separate driver protection. B) Switches with option DLC: 65°C, responsive retardant casting resin, UL94-V0 Integrated Free-Wheeling Diode. In connection with inductive load only. Integrated Freewheeling Diode Network. In connection with inductive load Pigtail for control connection: Flexible leads (I=75mm) with Iemo connection.	onse time <
FUNCTION	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxili: A) Standard swit 3 s @ 3xPd(max)	ne ground pin i  5 V input is u  TTL output, sh  TTL compatible ary power goot ches and switc  , \( \Delta T = 25K \) (40 to  Option  Option  Option  Option	Devices Devices With Schmitts internally coordinates of the coordinate	with option DLt t-Trigger characterist connected with the sa ates up to the specific oof. Indicating switch gger characteristics fr "." YELLOW."Cont on CF, GCF: Thermo t nt flow > 31 / min. Sepa the specific pass. Input filter ligh Frequency Burst digh Frequency Switch	ics. Control v fety earthing ed max. frequ & driver over or the connec rol signal recr rigger 75°C, r rate driver prot for increased ((improved cu ching (two au tency Burst crease the rise	terminal (the ency f <sub>(max)</sub> -heat, ove tion of extended, swite esponse tirection.  The ency f <sub>(max)</sub> -heat, ove tion of extended, swite esponse tirection.  The ency f <sub>(max)</sub> -heat f <sub>(max)</sub>	0 V (3-5 V recommined disert) on the higher rep rates re- r-frequency, low au ernal safety circuits to hol." RED: "Fame < 60 s @ 3xPd(n nunity. y external ply inputs V1 & V2 )	oottom side. equire option xiliary voltag L = Switch ult condition nax), $\Delta T = 25$ Option Option	n HFS. ge. L = Fau Inhibited. a, switch O K (50 to 75 UL-94 I-FWD I-FWDN PT-C SEP-C	FF" °C). Separate driver protection. B) Switches with option DLC: 65°C, respo Flame retardant casting resin, UL94-V0 Integrated Free-Wheeling Diode. In connection with inductive load only. Integrated Freewheeling Diode Network. In connection with inductive load	onse time <
FUNCTION	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxili: A) Standard swit 3 s @ 3xPd(max)	ne ground pin i 5 V input is u TTL output, sh TTL compatible any power goot ches and switc , \( \Delta T = 25K \) (40 to  Option  Option  Option  Option  Option  Option	Devices Devices with Schmits internally of seed for rep re ort circuit pre, Schmitt-Trie, Schmitt-Trie, Schmitt-Trie, Schmitt-Trie Schm	with option DL4 t-Trigger characterist connected with the sa ates up to the specific cof. Indicating switch gger characteristics fi F* YELLOW: "Cont not CF, GCF: Thermot nt flow > 31 / min. Sepa _ow Pass. Input filter -ligh Frequency Burst integrated High Frequ Soft Transition Time de ndividually increased ndividually increased	cics. Control v fety earthing def max. freque & driver over or the connect of gigal recei gigal recei gigal recei for increased t (improved ci hing (two au tency Burst crease the rise "Min. On-Tin "Min. Off-Tin.	terminal (the ency f <sub>(max)</sub> , heat, ove tion of extended in extende	0 V (3-5 V recommine add insert) on but he add insert i	option   Option   Option   Option   Option   Option   Option   Option   Option	n HFS. ge. L = Fat Je. L = Fat	FF"  "C). Separate driver protection. B) Switches with option DLC: 65°C, responsible retardant casting resin, UL94-V0  Integrated Free-Wheeling Diode. In connection with inductive load only.  Integrated Freewheeling Diode Network. In connection with inductive load only.  Pigtal for control connection: Flexible leads (I=75mm) with lemo connection. Separated control unit. Control unit with LED indicators in a separate hou Tubular Housing  Copper Cooling Fins. Pd(max) can be increased by the factor 3 to 10	onse time < add. tor. using.
	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxili: A) Standard swit 3 s @ 3xPd(max)	ne ground pin i \$ 5 V input is u \$ 5 V input is u TTL output, sh TL compatible any power good ches and switc  , \( \Delta T = 25K \) (40 tc  Option  Option	Devices Devices with Schmits internally or sed for rep re ort circuit pre , Schmitt-Tric, , Schmitt-Tric, , switch OFF nes with optic , 65°C), coola LP LP L HFFB H HFFS H HFFS H HFFS H HFFS H HFFS T  Min-On I Min-Off I	with option DL4 t-Trigger characterist connected with the sa tes up to the specific oof. Indicating switch gger characteristics fr 'YELLOW: 'Cont on CF, GCF: Thermo t ont flow > 31 / min. Sepa ow Pass. Input filter -tligh Frequency But the grated High Frequency Switc ontegrated High Frequency Incomplete the solution of the separate	cics. Control v fety earthing ded max. frequ & driver over or the connec ror signal recr ingger 75°C, r rate driver prot for increased t (improved cr hining (two aux enercy Burst crease the rise "Min. On-Tiri "Min. Off-Tiri Switch comb	terminal (the ency f <sub>(max)</sub> , heat, ove tion of exteriored, swittensponse tirection.  In apability by killiary support to avoid the ency to	0 V (3-5 V recommined dispersion of the safety of the safe	option side.  quire option xiliary voltag L = Switch ult condition ax), ΔT=25i  Option	n HFS. ge. L = Fau Inhibited. h, switch O K (50 to 75  UL-94 I-FWD I-FWDN PT-C SEP-C TH CF	FF"  "C). Separate driver protection. B) Switches with option DLC: 65°C, responsible retardant casting resin, UL94-V0  Integrated Free-Wheeling Diode. In connection with inductive load only.  Integrated Freewheeling Diode Network. In connection with inductive load Pigtal for control connection: Flexible leads (I=75mm) with lemo connection. Separated control unit. Control unit with LED indicators in a separate hou Tubular Housing  Copper Cooling Fins. Pd(max) can be increased by the factor 3 to 10.  Grounded Cooling Flange. Pd(max) can be increased by the factor 3 to 15.	onse time < add. tor. using. D.
FUNCTION	Control Signal Input Logic GND / 5V Return 5V Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxili: A) Standard swit 3 s @ 3xPd(max)	ne ground pin i 5 V input is u TTL output, si TL compatible sry power good chest and switch AT-25K (40 tc Option	Devices Devices with Schmits internally or sed for rep re ort circuit pre , Schmitt-Tric, , Schmitt-Tric, , switch OFF nes with optic , 65°C), coola LP L HFB H HFB H HFFS H HFFS H HFFS H HFFS H HFFS H HFFS H S-TT S S-TT	with option DL4 t-Trigger characterist connected with the sa tes up to the specific cof. Indicating switch gger characteristics fr " YELLOW: "Cont on CF, GCF: Thermo t on CF, GCF: Thermo t on the common of the co	ics. Control v fety earthing ded max. frequ & driver over or the connec or of the connec or	terminal (the ency f <sub>(max)</sub> -heat, ove the of exterior	0 V (3-5 V recommined ded insert) on the higher rep rates re- ri-frequency, low au ernal safety circuits to hovil. RED: "Fame < 60 s @ 3xPd(n nunity. y external ply inputs V1 & V2 ) the by 20% did unwanted dunwanted custom specific b 80kV.	oottom side. squire option side. squire option side. squire option L = Switch ult condition ax), \( \Delta \text{T=25} \) Option	n HFS. ge. L = Fau Inhibited. n, switch O K (50 to 75  UL-94 I-FWD I-FWDN PT-C SEP-C TH CF GCF ILC	FF"  "C). Separate driver protection. B) Switches with option DLC: 65°C, responsible retardant casting resin, UL94-V0  Integrated Free-Wheeling Diode. In connection with inductive load only.  Integrated Freewheeling Diode Network. In connection with inductive load Pigtal for control connection: Flexible leads (I=75mm) with lemo connection. Separated control unit. Control unit with LED indicators in a separate hou Tubular Housing  Copper Cooling Fins. Pd(max) can be increased by the factor 3 to 10.  Grounded Cooling Flange. Pd(max) can be increased by the factor 3 to 15.  Indirect Liquid Cooling (for water). Pd(max) can be increased by the factor 3.	onse time < add. tor. using. D.
ORDERING FUNCTION	Control Signal Input Logic GND / 5V Return SV Auxiliary Supply Fault Signal Output Inhibit Signal Input LED Indicators Temperature Protection HTS 301-240 SiC Trans	Pin 2 / Black. TI Pin 3 / Red. The Pin 4 / Orange. Pin 5 / Green. T GREEN: "Auxili: A) Standard swit 3 s @ 3xPd(max)	ne ground pin i 5 V input is u TTL output, si TL compatible ary power goor ches and switch AT-25K (40 tc Option	Devices Devices With Schmits internally or sed for rep re ort circuit prep Schmitt-Triq 1, switch OFF nes with option 165°C), coola LP L HFB H HFB H HFFS H H HFFS H H HFFS H H H H H H H H H H H H H H H H H H H	with option DL4 t-Trigger characterist connected with the sa ates up to the specific cof. Indicating switch gger characteristics fr "YELLOW: "Cont on CF, GCF: Thermo t nt flow > 31 / min. Sepa .ow Pass. Input filter -tligh Frequency Bust the grated High Frequency Switc ntegrated High Frequency Switc ntegrated High Frequency Increased ordividually increased culser Configuration. 30kV Isolation. Isolati ntegrated part compo	cics. Control v fety earthing ded max. frequ & driver over or the connec or of the connec o	terminal (the ency f <sub>(max)</sub> -heat, over the ethology of the et	0 V (3-5 V recommined and in the add insert) on him headed insert) on him headed insert) on ward in the affect of the additional and in the additional and	option side.  quire option siliary voltage L = Switch ult condition ax), \( \Delta = 25\)i  Option 1  Option 1  Option 1  Option 2  Option 1  Option 1	n HFS. ge. L = Fau Inhibited. n, switch O K (50 to 75  UL-94 I-FWD I-FWDN PT-C SEP-C TH CF GCF ILC DLC	FF"  "C). Separate driver protection. B) Switches with option DLC: 65°C, responsible retardant casting resin, UL94-V0  Integrated Free-Wheeling Diode. In connection with inductive load only.  Integrated Freewheeling Diode Network. In connection with inductive load Pigtal for control connection: Flexible leads (I=75mm) with lemo connection. Separated control unit. Control unit with LED indicators in a separate hou Tubular Housing  Copper Cooling Fins. Pd(max) can be increased by the factor 3 to 10.  Grounded Cooling Flange. Pd(max) can be increased by the factor 3 to 15.	ad. tor. using.  3 to 15.