har-flexicon terminal block vertical, push-in

RoHS compliant

General information

Design	PCB Terminal Block		
Type	har-flexicon 5.0 TWPV	har-flexicon 5.0 TTPV	
Part numbers	1403xx16101xxx	1402xx16101xxx	
Contact pitch	5 mm		
No. of contacts	2 - 18 poles	2 - 4 poles	
Rated surge voltage (II/2)	4 kV		(overvoltage cat. II / pollution degree 2)
Rated surge voltage (III/2)	4 kV		(overvoltage cat. III / pollution degree 2)
Rated surge voltage (III/3)	4 kV		(overvoltage cat. III / pollution degree 3)
Rated Voltage	300 V		
Rated voltage (II/2)	600 V		(overvoltage cat. II / pollution degree 2)
Rated voltage (III/2)	300 V		(overvoltage cat. III / pollution degree 2)
Rated voltage (III/3):	300 V		(overvoltage cat. III / pollution degree 3)
Working current	12 A		
Usegroup B, rated voltage / current	300 V / 12 A	300 V / 12 A	
Usegroup C, rated voltage / current	- / -	- / -	
Usegroup D, rated voltage / current	300 V / 12 A	300 V / 12 A	
Contact resistance	max. 15 mOhm		
Insulation resistance	min. 10^9 Ohm (500 V DC)		
Temperature range	-40°C ... +110°C		
Termination technology	wave solder	THR / SMC reflow	
Insertion force	n.a		
Withdrawal force	n.a		
Hot plugging	No		
Mechanical Shock IEC 61373 (05/10)	5g/30ms, each 3 shocks, 3 axis/two directions. No contact disturbance > 1µs		
Random Vibration IEC 61373 (05/10)	class1 cat B, ASD level 0,964$(m/s^2)^2$/Hz, RMS value 5,72m/s^2; 3x5h. No contact disturbance > 1µs		
RoHS - compliant	Yes		
UL file	E314677		

Isulator material

	har-flexicon 5.0 TWPV	har-flexicon 5.0 TTPV
Material	PA	PA / PPA
Color	green	black / orange
UL classification	UL 94-V0	
Material group acc. to. IEC 60664-1	I (CTI > 600)	

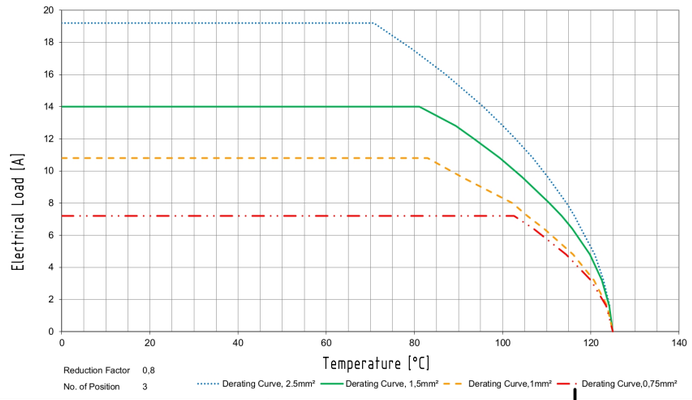
Contact material

	termination zone	contact zone	
		har-flexicon 5.0 TWPV	har-flexicon 5.0 TTPV
Contact material	Copper alloy	Copper alloy	1.4310 / AISI 301
Plating	Sn	Ni	-

Derating

The current carrying capacity is limited by maximum temperature of materials for inserts and contacts including terminals.
The current capacity curve is valid for continuous, non interrupted current loaded contacts of connectors when simultaneous power on all contacts is given, without exceeding the maximum temperature.

Control and test procedures according to DIN IEC 60512-5



Cable connection

Type	har-flexicon 5.0TWPV	har-flexicon 5.0 TTPV
Part numbers	1403xx16101xxx	1402xx16101xxx
Conductor size AWG max	12 AWG	
Conductor size AWG min	30 AWG	
Conductor size solid max	2,5 mm^2	
Conductor size solid min	0,2 mm^2	
Conductor size stranded max	2,5 mm^2	
Conductor size stranded min	0,2 mm^2	
Conductor size stranded for end sleeve	n.a.	
Stripping length max	10 mm	
Stripping length min	10 mm	

Packging unit

type har-flexicon 5.00 TWPV

Type of packaging	No. of poles (xx)	Quantity	MOQ	Index (xxx)	Remark
box	2	300	1	000	
box	3	200	1	000	
box	4 - 5	150	1	000	
box	6 - 12	100	1	000	
box	13 - 18	50	1	000	

type har-flexicon 5.00 TTPV

Type of packaging	No. of poles (xx)	Quantity	MOQ	Index (xxx)	Remark
box	2 - 3	100	100	000	
box	4	75	75	000	

1403xx16101xxx

All Dimensions in mm Original Size DIN A3	Scale 1:1	Free size tol.		Ref. Sub. DS 14037401501 / 500000077827 / 2014-07-31	
Department EL PD	Created by ZHUANGJ	Inspected by LUOK	Standardisation HOFFMANN	Date 2020-04-01	State Final Release
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	Type DS	Number 14037401501		Rev. D	Page 1/1

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