



# har-flexicon terminal block vertical, push-in



## 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 <sup>9</sup> 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 <sup>2</sup> ) <sup>2</sup> /Hz, RMS value 5,72m/s <sup>2</sup> ; 3x5h. No contact disturbance > 1µs				
RoHS - compliant	Yes				
UL file	E314677				

## Insulator 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)		

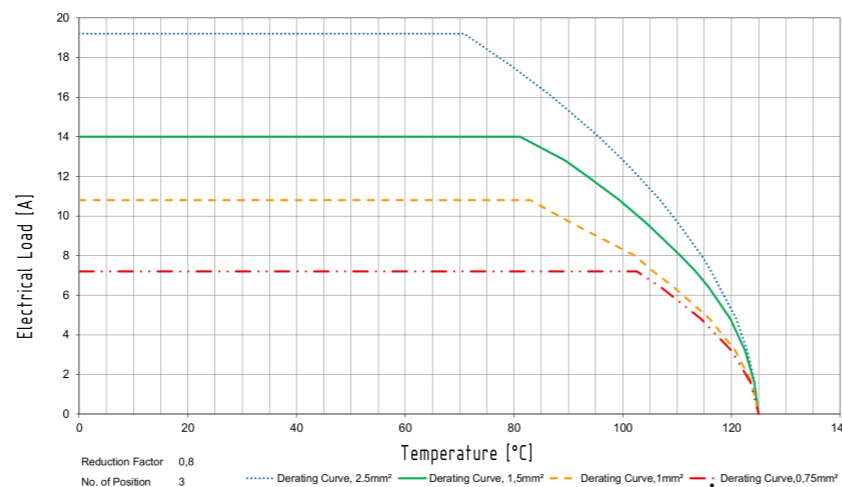
## Contact material

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 5.0 TWPV	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 <sup>2</sup>	
Conductor size solid min	0,2 mm <sup>2</sup>	
Conductor size stranded max	2,5 mm <sup>2</sup>	
Conductor size stranded min	0,2 mm <sup>2</sup>	
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

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