har-flexicon terminal block horizontal, screwing, SMC

RoHS compliant

General information

Design	PCB Terminal Block			
Type	har-flexicon 3.50/3.81 TTSH	har-flexicon 5.00 TTSH 1.5mm²	har-flexicon 5.08 TTSH 2.5mm²	
Part numbers	1402xx14402xxx & 1402xx15402xxx	1402xx16402xxx	1402xx16404xxx	
Contact pitch	3.5 mm, 3.81 mm	5mm	5.08mm	
No. of contacts	2-12 poles	2-12 poles	2-8 poles	
Rated surge voltage (II/2):	2.5 kV	4 kV	4 kV	(overvoltage cat. II / pollution degree 2)
Rated surge voltage (III/2):	2,5 kV	4 kV	4 kV	(overvoltage cat. III / pollution degree 2)
Rated surge voltage (III/3):	2,5 kV	4 kV	4 kV	(overvoltage cat. III / pollution degree 3)
Rated Voltage:	300 V	300 V	300 V	
Rated voltage (II/2):	300 V	600 V	600 V	(overvoltage cat. II / pollution degree 2)
Rated voltage (III/2):	150 V	300 V	300 V	(overvoltage cat. III / pollution degree 2)
Rated voltage (III/3):	150 V	220 V	300 V	(overvoltage cat. III / pollution degree 3)
Working current	12 A	13.5 A	17.5 A	
Contact resistance	max. 15 mOhm			
Insulation resistance	min. 10^9 Ohm (500 V DC)			
Temperature range	-40°C ... +110°C			
Termination technology	THR/SMC Reflow			
Insertion force	n.a			
Withdrawal force	n.a			
Hot plugging	No			
Vibration	10-150Hz,0,35mm,5g 2h each axes -> No contact disturbance > 1µs			
RoHS - compliant	Yes			
UL file	E314677			

Isulator material

Material	PA/PPA
Color	black
UL classification	UL 94-V0
Material group acc. to. IEC 60664-1	I (CTI > 600)

Contact material

Contact material	Copper alloy
Plating termination zone	Sn
Plating contact zone	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 3.50/3.81 TTSH	har-flexicon 5.00 TTSH 1.5mm²	har-flexicon 5.08 TTSH 2.5mm²
Part numbers	1402xx14402xxx & 1402xx15402xxx	1402xx16402xxx	1402xx16404xxx
Conductor size AWG max:	16 AWG	16 AWG	12 AWG
Conductor size AWG min:	28 AWG	30 AWG	30 AWG
Conductor size solid max:	1.5 mm²	1.5 mm²	2.5 mm²
Conductor size solid min:	0.05 mm²	0.05 mm²	0.05 mm²
Conductor size stranded max:	1 mm²	1.0 mm²	2.5 mm²
Conductor size stranded min:	0.05 mm²	0.05 mm²	0.05 mm²
Conductor size stranded for end sleeve			
Stripping length max:	6 mm	6 mm	6.5 mm
Stripping length min:	5 mm	5 mm	5.5 mm
Screw thread:	M2	M3	M3
Tightening Torque max:	0.25 Nm	0.6 Nm	0.6 Nm
Tightening Torque min:	0.20 Nm	0.5 Nm	0.5 Nm

Packging unit

Type of packaging	No. of poles (xx)	Quantity	Index (xxx)	Remark
tropical bag	2 - 3	100	000	
tropical bag	4 - 5	75	000	
tropical bag	6 - 12	50	000	
tropical bag	2 - 6	10	333	samples
tropical bag	7 - 12	5	333	samples

1402xx14402xxx

All Dimensions in mm
Original Size DIN A3

Scale 1:1 | Free size tol. | Ref. | Sub.

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Department EC PD - DE

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