

# SEK-18 SV MA STD STR45 RKZ 20P PLS4



| Part number        | 09 18 520 5912                         |
|--------------------|--|
| Specification      | SEK-18 SV MA STD STR45 RKZ 20P<br>PLS4 |
| HARTING eCatalogue | https://b2b.harting.com/09185205912    |

Image is for illustration purposes only. Please refer to product description.

#### Identification

| Category                   | Connectors     |
|----------------------------|----------------|
| Series                     | SEK Standard   |
| Element                    | Male connector |
| Description of the contact | Straight       |

#### Version

| Termination method | Wave soldering termination |
|--------------------|----------------------------|
| Locking type       | With short levers          |
| Connection type    | PCB to cable               |
| Number of contacts | 20                         |
| Termination length | 4.5 mm                     |
| Performance level  | 1<br>NM 30 (S4)            |

# **Technical characteristics**

| Contact rows                       | 2                  |
|------------------------------------|--------------------|
| Contact spacing (termination side) | 2.54 mm            |
| Rated current                      | 1 A                |
| Rated voltage                      | 500 V              |
| Insulation resistance              | >10 <sup>9</sup> Ω |
| Contact resistance                 | ≤20 mΩ             |
| Limiting temperature               | -55 +125 °C        |
| Insertion and withdrawal force     | ≤40 N              |

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## Technical characteristics

| Test voltage U <sub>r.m.s.</sub> | 1 kV                   |
|----------------------------------|------------------------|
| Isolation group                  | IIIa (175 ≤ CTI < 400) |
|                                  |                        |

## Material properties

| Material (insert)Thermoplastic resin (PBT)Colour (insert)GreyMaterial (contacts)Copper alloyBurface (contacts)Sn over Ni Termination side<br>Au over Pd/Ni Mating sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNoREACH ANNEX XIV substancesNo |
|--|
| Material (contacts)Copper alloySurface (contacts)Sn over Ni Termination side<br>Au over Pd/Ni Mating sideMaterial flammability class acc. to UL 94V-0RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNo  |
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| RoHScompliantELV statuscompliantChina RoHSeREACH Annex XVII substancesNo   |
| ELV status compliant   China RoHS e   REACH Annex XVII substances No   |
| China RoHS e   REACH Annex XVII substances No  |
| REACH Annex XVII substances No   |
|  |
| REACH ANNEX XIV substances No  |
|  |
| REACH SVHC substances No   |

# Specifications and approvals

| Specifications                    | IEC 60603-13   |
|-----------------------------------|--|
| UL / CSA                          | UL 1977 ECBT2.E102079<br>CSA-C22.2 No. 182.3 ECBT8.E102079 |
| Railway classification            | F3/I3  |
| Commercial data<br>Packaging size | 100  |
| Net weight                        | 6.22 g   |
| Country of origin                 | Switzerland  |
| European customs tariff number    | 85366990   |
| eCl@ss                            | 27440402 PCB connector                                     |

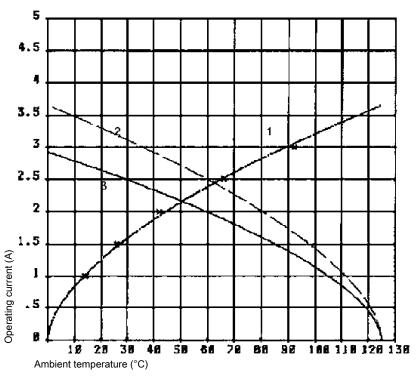
Page 2 / 3 | Creation date 2020-01-13 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com Product data sheet 09 18 520 5912 SEK-18 SV MA STD STR45 RKZ 20P PLS4



#### Current carrying capacity

The current carrying capacity of the connectors is limited by the thermal load capability of the contact element material including the connections and the insulating parts. The derating curve is therefore valid for currents which flow constantly (nonintermittent) through each contact element of the connector evenly, without exceeding the allowed maximum temperature.

Measuring and testing techniques acc. to IEC 60512-5-2

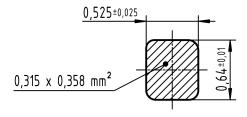


① Temperature raise

② Derating curve

③ Derating curve 80%

#### Cross section of solder termination



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