

# SEK-18 SV FE TYPA 40P PL2



| Part number        | 09 18 540 6803                      |
|--------------------|-------------------------------------|
| Specification      | SEK-18 SV FE TYPA 40P PL2           |
| HARTING eCatalogue | https://b2b.harting.com/09185406803 |

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

## Identification

| Category | Connectors       |
|----------|------------------|
| Series   | SEK              |
| Element  | Female connector |

## Version

| Connection type    | PCB to cable   |
|--------------------|--|
| Number of contacts | 40   |
| Performance level  | 2  |
| Details            | for IDC flat cable 1.27 mm (0.050") pitch<br>AWG 28/7 - AWG 26/7 |

## **Technical characteristics**

| Contact rows                       | 2                  |
|------------------------------------|--------------------|
| Contact spacing (termination side) | 2.54 mm            |
| Contact spacing (mating side)      | 1.27 mm            |
| Rated current                      | 2.5 A              |
| Insulation resistance              | >10 <sup>9</sup> Ω |
| Contact resistance                 | ≤20 mΩ             |
| Limiting temperature               | -55 +125 °C        |
| Insertion and withdrawal force     | ≤80 N              |
| Mating cycles                      | ≥250               |
| Test voltage U <sub>r.m.s.</sub>   | 1 kV               |

Page 1 / 3 | Creation date 2021-02-25 | 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 18 540 6803 SEK-18 SV FE TYPA 40P PL2



## Technical characteristics

| Isolation group                           | IIIa (175 ≤ CTI < 400)      |
|---|-----------------------------|
|   |                             |
| Material properties                       |                             |
| Material (insert)                         | Thermoplastic resin (PBT)   |
| Colour (insert)                           | Grey                        |
| Material (contacts)                       | Copper alloy                |
| Surface (contacts)                        | Sn over Ni Termination side |
|   | Au over Ni Mating side      |
| Material flammability class acc. to UL 94 | V-0                         |
| RoHS                                      | compliant                   |
| ELV status                                | compliant                   |
| China RoHS                                | e                           |
| 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                        | 1 g  |
| Country of origin                 | Romania  |
| European customs tariff number    | 85366990   |
| eCl@ss                            | 27460202 PCB connector (conductor connection)              |

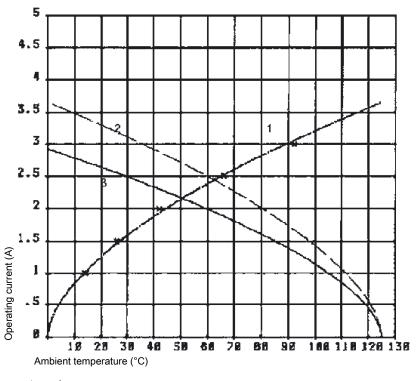
Page 2 / 3 | Creation date 2021-02-25 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity 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 18 540 6803 SEK-18 SV FE TYPA 40P PL2



#### 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%

Page 3 / 3 | Creation date 2021-02-25 | 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