**Material Data Sheet**

**Product Class**

| Motor run round B32314xx |

**Date**

18/11/2019

**IMDS ID if available**

NA

**Version**

5.02.1a (03/2019)

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### Material Class

<table>
<thead>
<tr>
<th>Product Part (IMDS: component)</th>
<th>Material Class (IMDS: Material)</th>
<th>Material Classification</th>
<th>Substance</th>
<th>TMLPS* (%)</th>
<th>CAS if applicable</th>
<th>typical mass of material [wt-%]</th>
<th>Traces see 1)</th>
</tr>
</thead>
</table>

#### Active Part

**Thermoplastic 2A Polypropylene**

| 100 | 9003-07-0 | 31.9 |

**Light Metal 1B Aluminum**

| 100 | 7428-90-5 | 2.5 |

**Light Metal 1C Zinc**

| 100 | 23713-49-7 | 5.4 |

**Ceramic 4D1 Resistive Material**

| 100 | - | 0.2 |

**Heavy Metal 1C Copper**

| 100 | 7440-50-8 | 0.3 |

#### Encapsulation

**Polymer 2A Polypropylene**

| 90 | 26062-94-2 | 13.1 |

**Thermoplastic 2A Polyurethane resin**

| 100 | 9009-54-5 | 31.6 |

#### Termination

**Heavy Metal 1C Tin**

| 99.3 | 7440-31-5 | 4.4 |

**Heavy Metal 1C Copper**

| 0.7 | 7440-50-8 | 3.8 |

**Heavy Metal 1C Tin**

| 100 | 7440-31-5 | 0.4 |

**Thermoplastic 2A PVC**

| 90 | 9002-86-2 | 5.4 |

**- - others* **

| 10 | - | - |

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**Not part of a Product Class**

**Contact**

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***) others: (not declarable or prohibited substances acc. GADSL)

**) typical mass percentage of substance

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**Important remarks:**

1) The declaration limit is 0.1% as defined by IEC 62474 (IEC PAS 61906). Traces are product parts, substances etc. that are below a percentage of 0.1 % by weight, if not otherwise regulated.

2) This Material Data Sheet contains typical values of the respective products set forth herein. We expressly point out that all values and statements contained herein are based on our best present knowledge and cannot be regarded as binding statements or binding product specifications, unless otherwise explicitly agreed in writing. TDK ELECTRONICS AG AND ITS AFFILIATES HEREBY EXPRESSLY DISCLAIM ANY REPRESENTATION OR WARRANTY, WHETHER EXPRESS, IMPLIED OR STATUTORY, WITH REGARD TO THE STATEMENTS AND VALUES CONTAINED HEREIN, INCLUDING BUT NOT LIMITED TO ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR SUITABILITY FOR ANY PURPOSE.

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**RoHS - Exemptions for the Product Class / Product according to Annex III:**

<table>
<thead>
<tr>
<th>Exemption</th>
<th>Remarks</th>
</tr>
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<tbody>
<tr>
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<td>-</td>
</tr>
</tbody>
</table>

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**The products set forth herein are “RoHS-compatible”. RoHS-compatible means that products are compatible with the requirements according to Art. 4 (substance restrictions) of Directive 2011/65/EU of the European Parliament and of the Council of June 8th, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.**

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