

ECK100B Series

TE Internal #: 2071583-1

General Purpose Contactor, DC, 1 Form X SPST-NO-DM, 100 A

Contact Rating, 12 VDC Coil Voltage, 5.5 W Coil Power, Panel

Mount, ECK100B Series

[View on TE.com >](#)



Relays & Contactors > Electromechanical Relays > High Voltage DC Contactors, hermetically sealed, ceramic technology



Relay & Contactor Type: **General Purpose Contactor**

Contact Current Rating: **100 A**

Contact Arrangement: **1 Form X SPST-NO-DM**

Current Type: **DC**

Coil Voltage Rating: **12 VDC**

[All High Voltage DC Contactors, hermetically sealed, ceramic technology \(20\)](#)

Features

Product Type Features

Relay & Contactor Type	General Purpose Contactor
------------------------	---------------------------

Configuration Features

Auxiliary Switch Contact Arrangement	1 Form A, SPST-NO
Contact Arrangement	1 Form X SPST-NO-DM
Contact Number of Poles	1

Electrical Characteristics

Contact Switching Voltage (Max)	1000 VDC
Contact Current Rating	100 A
Coil Voltage Rating	12 VDC
Coil Resistance	23.56 – 28.8 Ω
Coil Power Rating DC	5.5 W
Insulation Initial Dielectric Between Contacts & Coil	4300 Vrms



Body Features

Enclosure Type	Hermetically Sealed
----------------	---------------------

Contact Features

Contact Material	Copper
------------------	--------

Termination Features

Auxiliary Termination & Connection Type	Flying Lead
Main Termination & Connection Type	M5 Female
Coil Termination & Connection Type	Flying Leads

Mechanical Attachment

Product Mounting Feature Type	Mounting Hole
Product Mount Type	Panel Mount

Dimensions

Product Width	35 mm
Product Height	57.8 mm
Product Length	55.1 mm[2.169 in]
Wire Size	20 AWG

Usage Conditions

Operating Temperature Range	-40 – 85 °C[-40 – 185 °F]
Environmental Ambient Temperature (Max)	85 °C[185 °F]

Operation/Application

Current Type	DC
--------------	----

Packaging Features

Packaging Method	Carton
------------------	--------

Other

Contact Current Class	>50 – ≤200 A
Coil Power Rating Class	>3 – ≤10 W
Height Class (Mechanical)	>45 – ≤70 mm[>1.772 – ≤2.756 in]
Length Class (Mechanical)	>45 – ≤70 mm[>1.772 – ≤2.756 in]
Width Class (Mechanical)	>33 mm[>1.299 in]

Product Compliance

For compliance documentation, visit the product page on TE.com>



EU RoHS Directive 2011/65/EU	Compliant
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	有害物质含量符合标准要求 No Restricted Substance(s) Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2025 (250) Candidate List Declared Against: JUNE 2025 (250) Does not contain REACH SVHC
Halogen Content	Low Halogen - Br, Cl, F < 900 ppm per homogenous material. Also BFR/CFR/PVC Free
Solder Process Capability	Not applicable for solder process capability

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulations, TE’s information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) ‘Guidance on requirements for substances in articles’(Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of ‘complex object’, the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA “Guidance on requirements for substances in articles” (June 2017, version 4.0) and will be updating its statements accordingly.

Compatible Parts



Also in the Series | ECK100B Series



DC Relays(4)

General Purpose Contactors(4)

Customers Also Bought

TE Part #CAT-P99-F22203040
Ultra-Compact DC-Busbar EMC/RFI Filter for EV Charging Applications

TE Part #CSE-SGAM-152-SGAM
SMA to SMA 152mm RG316

TE Part #1SNK706011R0000
ZK4-3P

TE Part #1SNK905302R0000
JB5-2

TE Part #1SNK705011R0000
ZK2.5-3P

TE Part #1SNK705911R0000
EK2.5-3P

TE Part #1SNK900002R0000
BAZ1

TE Part #CAT-P23-ECK
High Voltage DC Contactors, hermetically sealed, ceramic technology

Documents

Product Drawings

ECK100BH4AAA

English

CAD Files

Customer View Model

ENG_CVM_CVM_2071583-1_A.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2071583-1_A.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2071583-1_A.3d_stp.zip

English

3D PDF

3D

By downloading the CAD file I accept and agree to the Terms and Conditions of use.



Datasheets & Catalog Pages

QRG - High Voltage DC Contactors

QRG - High Voltage DC Contactors

English

High Voltage DC Contactor ECK100B Series

English

Agency Approvals

UL

English