

2940207

https://www.phoenixcontact.com/sg/products/2940207

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Input solid-state relay terminal block, input: 24 V DC, output: 3 - 48 V DC/100 mA, terminal block width: 6.2 mm

Your advantages

- · Actuator version available
- EB-DIK insertion bridges
- · Labeling and mounting with user-friendly modular terminal blocks
- Wear-free switching of up to 24 V DC/10 A or 240 V AC/800 mA
- Integrated output protective circuit
- · Integrated input circuit
- · Electrical isolation between input and output at up to 2.5 kVrms
- · Status indicator
- · Zero voltage switch at AC output

Commercial data

Item number	2940207	
Packing unit	10 pc	
Minimum order quantity	1 pc	
Sales key	0612*	
Product key	DK61A1	
Catalog page	Page 442 (C-5-2019) 4017918079901	
GTIN		
Weight per piece (including packing)	20.83 g	
Weight per piece (excluding packing)	20.53 g	
Customs tariff number	85364190	
Country of origin	CN	



2940207

https://www.phoenixcontact.com/sg/products/2940207

Technical data

Notes

NOLES	
Note on application	Use of EB 80-DIK bridges in the DEK terminal blocks: Absorption of humidity from the ambient air as well as an unfavorable tolerance between a larger number of DEK terminal blocks and the EB 80-DIK bridge may cause (minor) expansion of the DEK housing. When the EB 80-DIK bridges are used, therefore, it is recommended that these be disconnected after about 10 to 12 DEK terminal blocks and a wire bridge to the next DEK terminal block be inserted in their place.
Product properties	
Product type	Solid-state relay module
Product family	DEK
Application	Output function
Operating mode	100% operating factor
Insulation characteristics: Standards/regulations	
Insulation	Basic insulation
Overvoltage category	Ш
Pollution degree	2
Data management status	
Date of last data management	19.03.2025
Electrical properties	
Maximum power dissipation for nominal condition	10 mW
Test voltage (Input/output)	2.5 kV AC (Input/output)
Input data	
Nominal input voltage U _N	24 V DC
Input voltage range in reference to U _N	0.8 1.2
Input voltage range	19.2 V DC 28.8 V DC
Switching threshold "0" signal in reference to ${\rm U}_{\rm N}$	≤ 0.4
Curitabing threshold "1" signal in reference to 11	> 0.8

Switching threshold "1" signal in reference to ${\rm U}_{\rm N}$	≥ 0.8	
Typical input current at U _N	7 mA	
Typical response time	20 µs	
Typical turn-off time	200 µs	
Operating voltage display	Green LED	
Protective circuit	Reverse polarity protection	
Transmission frequency	300 Hz	

Output data

Contact switching type	1 N/O contact
Design of digital output	electronic
Output voltage range	3 V DC 48 V DC



2940207

https://www.phoenixcontact.com/sg/products/2940207

Limiting continuous current	100 mA	
Voltage drop at max. limiting continuous current	≤ 0.9 V	
Output circuit	2-conductor floating, 3-conductor ground-referenced	
Protective circuit	Reverse polarity protection; Polarity protection diode	
	Freewheeling diode; Freewheeling diode	
Output resistor	approx. 22 k Ω (for 3-conductor operation)	

Connection data

Connection method	Screw connection	
Stripping length	8 mm	
Screw thread	М3	
Conductor cross section rigid	0.2 mm ² 2.5 mm ²	
Conductor cross section flexible	0.2 mm² 2.5 mm²	
Conductor cross section AWG	24 14	
Tightening torque	0.5 Nm	

Dimensions

Width	6.2 mm
Height	80 mm
Depth	56 mm

Material specifications

	Color	green (RAL 6021)
--	-------	------------------

Environmental and real-life conditions

Ambient conditions			
	Ambient temperature (operation)	-20 °C 60 °C	
	Ambient temperature (storage/transport)	-40 °C 70 °C	

Standards and regulations

Standards/regulations	
Standards/regulations	IEC 60947-5-1

Mounting

Mounting type	DIN rail mounting	
Assembly note	in rows with zero spacing	
Mounting position	any	



2940207

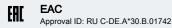
https://www.phoenixcontact.com/sg/products/2940207

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/sg/products/2940207

.91	CUL Recognized Approval ID: E238705				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		-	-	30 - 14	-

71	UL Recognized Approval ID: E238705				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		-	-	30 - 14	-





2940207

https://www.phoenixcontact.com/sg/products/2940207

Classifications

ECLASS

	ECLASS-13.0	27371604		
ETIM				
	ETIM 9.0	EC001504		
UNSPSC				
	UNSPSC 21.0	39122300		



2940207

https://www.phoenixcontact.com/sg/products/2940207

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes	
Exemption	7(a), 7(c)-l	
China RoHS		
Environment friendly use period (EFUP)	EFUP-50	
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.	
EU REACH SVHC		
REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)	
	Lead(CAS: 7439-92-1)	
SCIP	f9c4e29b-a9d2-49b5-bea0-36cdcfae1456	

Phoenix Contact 2025 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT SEA Pte. Ltd. 105 Eunos Avenue 3, #04-00 Singapore 409836 +65 6228 4900 marketing@phoenixcontact.com.sg