

TC-2KS40-AIO16R-CS3000 - Module carrier



2902661

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Termination carrier for redundantly connecting 16 MACX Analog Ex i signal conditioners to analog input/output cards of the Yokogawa CS3000 controller, via two KS40 connectors, 40-pos. Suitable for Yokogawa AAI141 and AAI543 cards.

Your advantages

- Mechanically decoupled PCB
- Robust aluminum profile with integrated DIN rail
- Side parts with integrated end clamps
- Redundant system connection, 40-pos. (KS/AKB-compatible)
- Simple or redundant supply (decoupled from diode, protected against polarity reversal) and monitoring function implemented via separate DIN rail module

Commercial data

Item number	2902661
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C420
Product key	DK271C
GTIN	4046356670623
Weight per piece (including packing)	1,376.3 g
Weight per piece (excluding packing)	1,370 g
Customs tariff number	85366990
Country of origin	DE

Technical data

Notes

Notes on operation	For proper use, the specifications of the installation directive (see Downloads) must be observed. For applications or use with third-party products, the specifications, and the safety and warning instructions of the respective third-party manufacturer must also be met.
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Product properties

Product type	Module carrier
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Insulation characteristics: Air clearances and creepage distances

Insulation	Basic insulation
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Electrical properties

Max. permissible current	800 mA (Signal/channel)
Nominal voltage U_N	24 V DC ((19.7 V ... 30 V))

Air clearances and creepage distances

Rated insulation voltage	50 V
Rated surge voltage	0.5 kV

Supported controller: YOKOGAWA CENTUM VP

Suitable I/O card	AAI141
	AAI543

Supply

Designation	Feed-in module
Note	Supply via MACX MCR-PTB (2865625). Supply, decoupled from diodes from both modules.
Fuse	5 A Slow-blow (can be exchanged)
Input voltage	24 V DC
Input voltage range	19.2 V DC ... 30 V DC
Redundant supply	yes, decoupled from diodes
Polarization and surge protection	Yes
Output name	Switching output
Contact switching type	1 N/C contact (alarm = open)
Maximum switching voltage	50 V DC (0.3 A)
	30 V DC (2 A)
	33 V AC (2 A)

Connection data

Power supply

Connection method	Screw connection
Stripping length	7 mm

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Number of connections	1
Number of positions	6
Conductor cross-section rigid	0.14 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.14 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 12

Controller level

Connection method	Yokogawa, KS compatible
Number of connections	2
Number of positions	40

Signaling

Status display	1 x red LED (error) 2x green LEDs (PWR1 and PWR2)
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Dimensions

Width	242 mm
Height	170 mm
Depth	160 mm

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP00
Ambient temperature (operation)	-20 °C ... 60 °C (Please observe module specifications)
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Shock	15g, according to IEC 60068-2-27
Vibration (operation)	2g, according to IEC 60068-2-6

Approvals

UL, USA/Canada

Identification	UL 61010 Listed Class I, Div. 2, Groups A, B, C, D T4 Class I, Zone 2, Group IIC
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Standards and regulations

Air clearances and creepage distances

Standards/regulations	DIN EN 50178
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Mounting

Mounting type	DIN rail mounting
Assembly note	No end clamp
Mounting position	vertical, horizontal

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Environmental product compliance

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.)	No substance above 0.1 wt%
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