DELTAV REDUNDANT AI

Product Data Sheet

KC4011X1-BE1 12P6771X032

Redundant 16-channel AI terminal block

TERMINATION CHANNELS	I/O CONFIGURATION	FIELD VOLTAGE RATING	FIELD CURRENT RATING
16	**Redundant AI**	**30 V DC**	**100 mA/channel**

Emerson KC4011X1-BE1 12P6771X032 is a redundant 16-channel analog input terminal block for DeltaV I/O. It provides the field termination arrangement for the matching redundant AI card configuration and uses rotary key position A6 to distinguish its connection requirements from other I/O terminal blocks.

01 TECHNICAL DATA

Termination channels	16
I/O configuration	Redundant AI
Field voltage rating	30 V DC
Field current rating	100 mA/channel
Terminal key position	A6
Operating temperature	-40 to +70 °C
Shock resistance	10 g, 11 ms half-sine
Vibration displacement	1 mm peak-to-peak, 2–13.2 Hz
Vibration acceleration	0.7 g, 13.2–150 Hz
Relative humidity	5–95%, non-condensing

02 ADDITIONAL PRODUCT DATA

Corrosion severity	ISA-S71.04-1985 Class G3
Explosion protection	II 3G Ex ec nC IIC Gc
ATEX certificate	FM19ATEX0173U
IECEx certificate	IECEx FMG 19.0019U
UKEX certificate	FM21UKEX0017U

03 PRODUCT FUNCTION

The field circuit is rated at 30 V DC with a current rating of 100 mA/channel. The terminal block operates at ambient temperatures from -40 to +70 °C, with 5–95% non-condensing relative humidity and ISA-S71.04 Class G3 airborne-contaminant severity. Its installation arrangement supports the documented redundant channel termination and keyed card interface.

04 SYSTEM COMPATIBILITY

The field circuit rating is 30 V DC at 100 mA/channel. Plan wiring and connected circuits around this termination rating, keeping it separate from the power specifications of the installed I/O card. Follow the DeltaV S-series hardware instructions for the complete carrier and field-wiring arrangement.

05 REFERENCE

Emerson KC4011X1-BE1 ATEX160, July 2021

AMIKON PRODUCT SUPPORT

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