HIMATRIX F35

Product Data Sheet

HIMatrix F35 014

Compact safety related controller

DIGITAL INPUTS	ANALOG INPUTS	DIGITAL OUTPUTS	COUNTER INPUTS
24	8	8	2

HIMA HIMatrix F35 014 is a compact safety controller with twenty-four digital inputs, eight analog inputs, eight digital outputs and two counter inputs. A four-port 10/100 Mbit/s Ethernet switch supports the HIMatrix network connection, while the integrated I/O combines discrete, analog and pulse information within the F35 controller format.

01 TECHNICAL DATA

Digital inputs	24
Analog inputs	8
Digital outputs	8
Counter inputs	2
Ethernet switch ports	4 × RJ45, 10/100 Mbit/s
Counter frequency	0–100 kHz
Rated supply	24 V DC
Supply tolerance	-15% to +20%
Idle power consumption	12 W
Maximum power consumption	216 W

02 ADDITIONAL PRODUCT DATA

External fuse	10 A, time-lag
Analog voltage input	0–10 V DC
A/D conversion	12-bit converter; 9-bit effective
Operating temperature, 014 variant	-25 to +70 °C
Rail shock/vibration class	IEC 61373 Class 1B

03 PRODUCT FUNCTION

The 014 model variant extends the operating temperature range to -25 to +70 °C and is designed for railway and mobile conditions with IEC 61373 Class 1B shock and vibration resistance. The F35 platform uses a 24 V DC supply with -15% to +20% tolerance, 12 W idle and 216 W maximum consumption, and a 10 A time-lag external fuse.

04 SYSTEM COMPATIBILITY

Allocate the twenty-four digital inputs, eight analog inputs, eight digital outputs and two counters in the approved project. The analog channels include a 0–10 V DC range with 12-bit conversion and 9-bit effective resolution; current-input arrangements depend on the specified external shunt adapter.

05 REFERENCE

HIMA HIMatrix Product Catalog, version 2, 96 9000345 1011; F35 and F35 014 sections

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