

Converters

Narrow profile transducers

Electrical parameter transducer in a process signal



Description

- Convert voltage, current or frequency in a single-phase system
- Very competitive quality / price ratio
- Ideal for small installations
- Very reliable and robust devices
- Valid for work under demanding conditions

Application

- Systems for the conversion of the electrical parameters of single-phase networks in industrial environments where there are demanding conditions and there is a reduced space.
- Converts voltage, current or frequency into a single-phase system in analogue output or process signal.
- Conversion of electrical parameter signal to process signal for PLCs.

Features

	CVE-A	CCE	CFE
Power supply circuit	230 Vac (-15 ... +20 %) (*1)		
Frequency	40 ... 90 Hz		
Consumption	2.5 V·A		
Measurement circuit			
Consumption	< 0.2 V·A		
Frequency	45 ... 65 Hz		
Nominal voltage (U_n)	0..0.690 Vac	-	10..0.600 Vac
Nominal current (I_n)	-	5 A ac	-
Measurement range	5-120 % (*2)		
Overload (permanent)	-	300 % I_n	-
Overvoltage	1000 V	-	1000 V
Analogue output circuit			
Voltage load impedance	> 500		
Current load impedance	< 500		
Response time	< 300 ms		
Rippling, in TRMS	< 0,5 %		
Insulation			
Test voltage	3 kV		
Impulse test	4 kV		
Ambient conditions			
Storage temperature	-40 ... +70 °C		
Operating temperature	-10 ... +55 °C		
Altitude	2000 m		
Build features			
Box material	ABS V0		
Degree of protection	Box: IP 20 / Front panel: IP 54		
Weight (g)	190	250	190
Standards	IEC 529, IEC 688, IEC 801, EN 50081-1, EN 50082-1		

(*1) For other types of power supply, see the coding table

(*2) CVE-A-AP i CFE-AP: Measurement range 70-110 %

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Converter of electrical parameters into process signals



References

Standard auxiliary power supply: 230 Vac, 45...65 Hz (*)

For non-standard purchase orders, please state the following: 1.Code, 2.Input range, 3.Output range, 4.Auxiliary power supply, 5. In **CFE-AP**, state the network voltage. (See coding table)

Application	Measurement	Accuracy	Input (*)	Output (*)	Type	Code
Voltmeter	AC	0.5 % FE	300 V	4...20mA	CVE-A	M25011
Voltmeter (*1)			230 V	0...20mA	CVE-A-AP	M25021
Ammeter			5 A	4...20mA	CCE-A	M25111
Ammeter (*1)			0...20mA	CCE-A-AP	M25121	
Frequency-meter			45..0.55 Hz	4...20mA	CFE	M25511
Frequency-meter (Self-powered)				0...20mA	CFE-AP	M25521

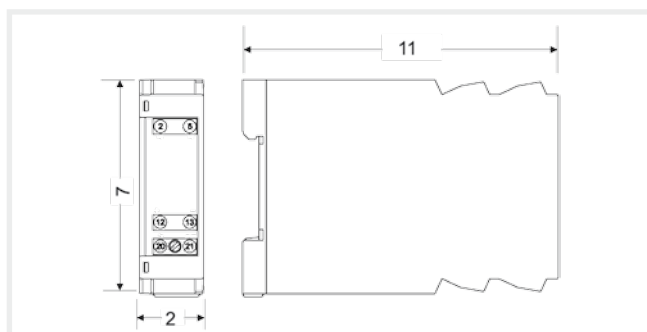
(*1) Self-powered: does not need an auxiliary power supply.

(*) Other inputs, outputs and auxiliary power supplies are offered as an option (See coding table).

Coding table

		M	2	X	X	X	X	0	0	X	X	X	X	X
1	Code	Internal Code							↑	↑	↑	↑	↑	↑
2 - INPUTS	CVE-A Voltage	Standard (300 V)							0	↑	↑	↑	↑	↑
		110 V							1					
		400 V							2					
		500 V							3					
		690 V							4					
	CVE-A-AP Voltage	Standard (230 V)							0					
		110 V							1					
		400 V							2					
	Current	Standard (5 A)							0					
		1 A							1					
		10 A							4					
	Frequency	Standard (45...55 Hz)							0					
		55...65 Hz							1					
		47...53 Hz							2					
45...65 Hz							3							
0...100 Hz							4							
380...0.420 Hz							5							
360...0.440 Hz							6							
340...0.460 Hz							7							
3 - OUTPUTS	CVE-A, CCE-A, CFE	Standard (4...20 mA)							0					
		0...20 mA							1					
		0...0.10 V							2					
	CVE-A-AP, CCE-A-AP, CFE-AP	Standard (0...20 mA)							0					
		0...0.10 V							1					
4	Auxiliary power supply	Standard (220...240 V)							0					
		380...40 Vac 40/60 Hz							3					
		18...36 Vdc							7					
5	Network voltage (CFE-AP)	Standard (230 V)							0	0				
		110 V							0	1				
		400 V							0	2				

Dimensions



Connections

