

# Technical Data MCC



Fig. 1 Figure of MCC

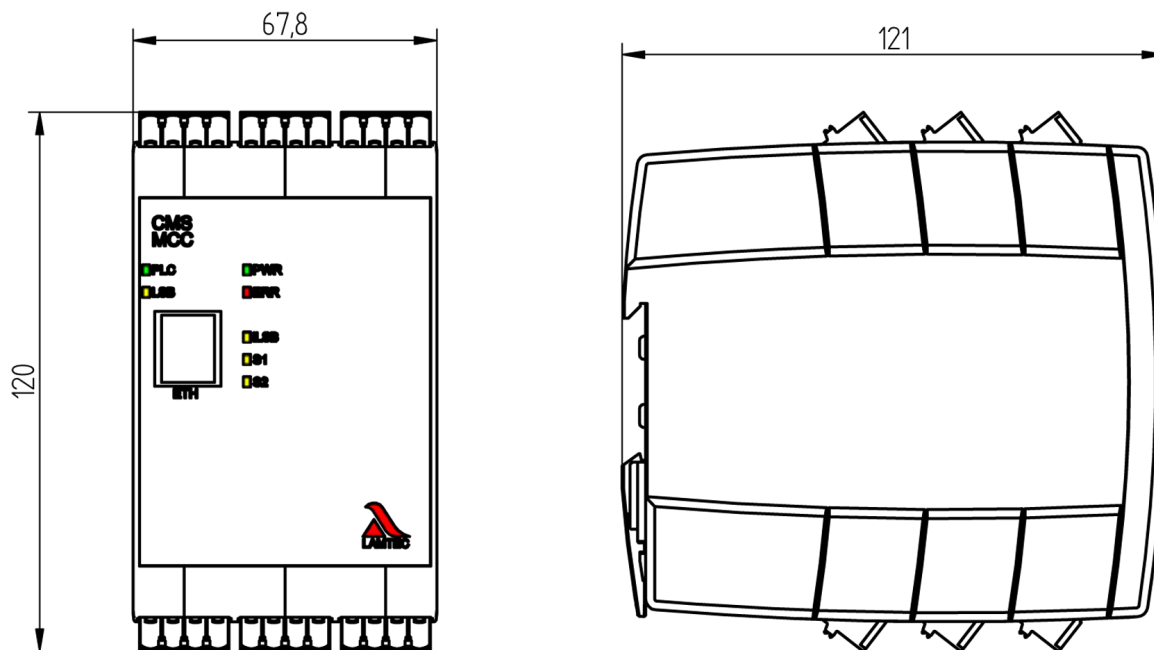


Fig. 2 MCC dimensional drawing

## Part number

MCC – Master Control Component

Type 668R1000-XX\*

\* XX = dependent on the configuration

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Dimensions (H × W × D)	120 x 67.8 x 121 mm / 4.72 x 2.67 x 4.76" in			
Weight	0.505 kg / 1.11 lb			
Power supply:				
MCC	24 VDC +/-20 %, SELV			
Inputs	230 V/120 V +10/-15 %, 47-63 Hz, 24 VDC ± 20 %			
Outputs	230 V/120 V +10/-15 %, 47-63 Hz, 24 VDC ± 20 %			
Maximum backup fuse/outputs	8 A fast acting			
Current draw	minimum: 200 mA maximum: 335 mA			
Maximum power consumption	10 W			
Digital inputs		24 VDC	120 VDC	230 VDC
	nominal current	2.1 mA impedance 11 kΩ	2.1 mA impedance 75 kΩ	2.3 mA impedance 100 kΩ
	<b>Since the inrush currents on the are low, use gold-plated silver contacts!</b>			
	signal ON (min)	0.55 mA △ 6.9 VDC	0.97 mA △ 56 VAC	0.78 mA △ 77 VAC
	signal OFF (max)	0.27 mA △ 4 VDC	0.35 mA △ 21 VAC	0.35 mA △ 36 VAC
Digital outputs	$I_{max} = 2 \text{ A}$ per output, maximum total current over all outputs: 8 A $\cos\phi \geq 0,2$ residual voltage possible due to self-test function.			
	For operation with SPS or similar, digital inputs: – Logical 1 = Output ON: U = 230 V/120 V/230 V inclusive tolerance – Logical 0 = Output OFF see			
		24 VDC	120 VAC	230 VAC
	short circuit current	1.23 mA	1.41 A <sub>rms</sub>	1.47 A <sub>rms</sub>
	residual voltage by self-test functions see <i>Fig. 4 Residual voltage when output is switched OFF</i> )			
Flame sensor input	optical: flame sensor connection $U_{nom} = 27 \text{ V} \pm 1 \text{ V}$ Cable length max. FFS07/FFS08: 300 m / 984.25 ft, shielded FLS09: 100 m / 328.08 ft, shielded ionisation: supply voltage 230 VAC (120 VAC) $I_{min} = 1 \mu\text{A}$ $I_{max} = 50 \mu\text{A}$			
Current output	0 ... 20 mA ± 2 % output current max.: 25 mA load max.: 1 kΩ, Use shielded cables only!			

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Analogue input	<p>Multifunctional input for the connection of:</p> <ul style="list-style-type: none"> <li>– potentiometer (2 kΩ ... 10 MΩ)</li> <li>– current input 0/4 ... 20 mA, Ri = 150 Ω</li> <li>– voltage input 0 ... 10 V, Ri = 100 MΩ</li> </ul> <p>reference voltage 10 V, short-circuit proof tolerance ± 2 % Use shielded cables only!</p>
Fieldbus	<p>MODBUS/TCP PROFINET LAMTEC SYSTEM BUS other Fieldbus protocols are using other modules.</p>
Flameability	UL94 V-0

### Environmental Conditions

<b>Operation</b>	permitted temperature range	-30...+70 °C (non-condensing) -22 ... +158 °F
	permitted humidity	5% ... 95 % relative humidity
<b>Transport/Storage</b>	permitted temperature range	-40...+80 °C (non-condensing) -40 ... +176 °F
	permitted humidity	5 % ... 95 % relative humidity
<b>Degree of protection</b>	DIN EN 60529	IP20 (as long as all terminals are mounted)

### NOTICE

The limits of the technical data must be strictly adhered to.

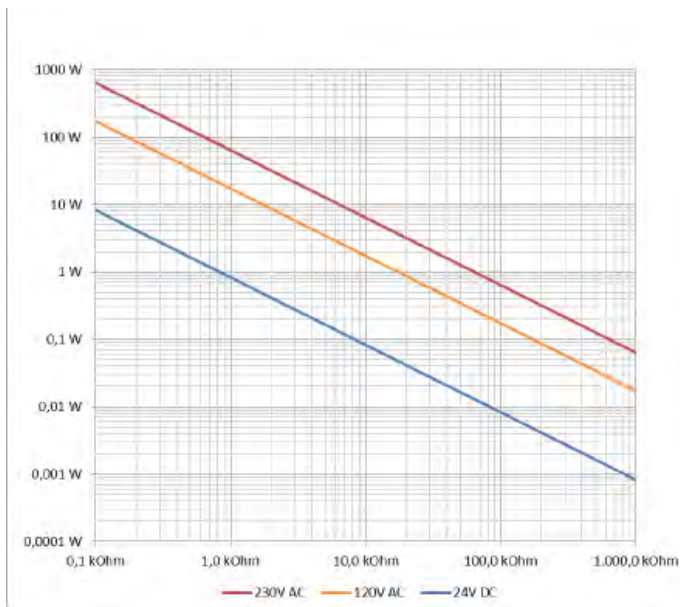


Fig. 3 Output of the additional resistor when the output is switched ON

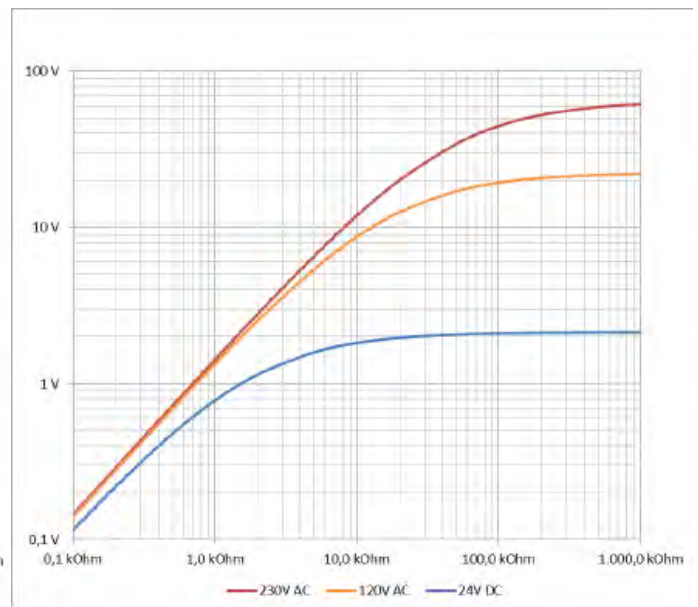


Fig. 4 Residual voltage when output is switched OFF

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## Order Information

Description/Type	Order no. - selection
MCC Master Control Component, power supply 24 VDC/8 W Burner module	668R0100...
<b>A 10 – VOLTAGE IN/OUT</b>	<b>Selection</b>
INPUT 230 VAC/OUTPUT 230 VAC	230VAC
INPUT 120 VAC/OUTPUT 120 VAC	120VAC
INPUT 24 VDC/OUTPUT 230 VAC	24-230
INPUT 24 VDC/OUTPUT 120 VAC	24-120
INPUT 24 VDC/OUTPUT 24 VDC	24VDC
<b>A 20 – FLAME MONITORING</b>	<b>Selection</b>
EXTERNAL FLAME MONITORING VIA DIGITAL INPUT	0
INTERNAL FLAME MONITORING OPTICAL FFS...	OP
INTERNAL FLAME MONITORING IONISATION, SUPPLY VOLTAGE 120 VAC Only possible with a voltage increase transformer from 120 VAC to 140 VAC!	IO-120
INTERNAL FLAME MONITORING IONISATION, SUPPLY VOLTAGE	IO-230
<b>A 30 – CUSTOMER</b>	<b>Selection</b>
STANDARD	S
<b>A 40 – COLOUR</b>	<b>Selection</b>
BLACK (STANDARD)	SW
<b>A 50 – CONNECTOR SET</b>	<b>Selection</b>
SCREW TERMINALS Connector set included	SC
SPRING TERMINALS Connector set included	FED
WITHOUT Connector set not included, must be ordered separately, see „Separate Connector Sets for MCC”	0
<b>A 60 – MEMORY EXTENSION</b>	<b>Selection</b>
WITHOUT	0

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### Separate connector sets for MCC

when attribute 50 „CONNECTOR SET“ = selection „0“

Description/Type	Order no.
Screw terminals MCC input 120/230 VAC / output 120/230 VAC	668R0085
Screw terminals MCC input 24 VDC / output 120/230 VAC	668R0086
Screw terminals MCC input 24 VDC / output 24 VDC	668R0087
Spring terminals MCC input 120/230 VAC / output 120/230 VAC	668R0095
Spring terminals MCC input 24 VDC / output 120/230 VAC	668R0096
Spring terminals MCC input 24 VDC / output 24 VDC	668R0097



The information in this publication is subject to technical changes.



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