Dimension sheet for
ROBA®-brake-checker plus AC Type 029.700.2

(M.0297002.EN)

Application

ROBA®-brake-checker plus AC monitoring modules are used to connect permitted ROBA®-stop safety brakes to AC voltage.
Motion monitoring of the armature disk for released ROBA-stop® safety brakes is possible.

Monitoring module ROBA®-brake-checker plus AC

- Consistently controlled output voltage in the entire input voltage range
- Consumer operation with overexcitation or power reduction
- Input voltage: 200 – 480 VAC
- Supply voltage with 50 or 60 Hz
- Max. output current I_{RMS}: 2 A
- Sensorless and contactless detection of switching statuses
- Motion recognition of the brake (release and drop-out recognition of the armature disk)
- Preventative function monitoring (wear recognition and error recognition, functional reserve)
- Continuous drop-out recognition
- Simple installation or retrofitting
- Electrical isolation on the output channels

The UL information applies only when the UL mark is printed onto the product label.

CAUTION

The ROBA®-brake-checker cannot be used in all applications (e.g. when operating noise-damped brakes, it cannot be used without additional measures). The product's suitability should be checked before use.

Function

The ROBA®-brake-checker monitoring module is intended for use with an input voltage from 200 up to 480 VAC. The module supplies the connected brakes and regulates to a permanently programmed overexcitation voltage. After the overexcitation time ends, it regulates to the permanently programmed holding voltage.

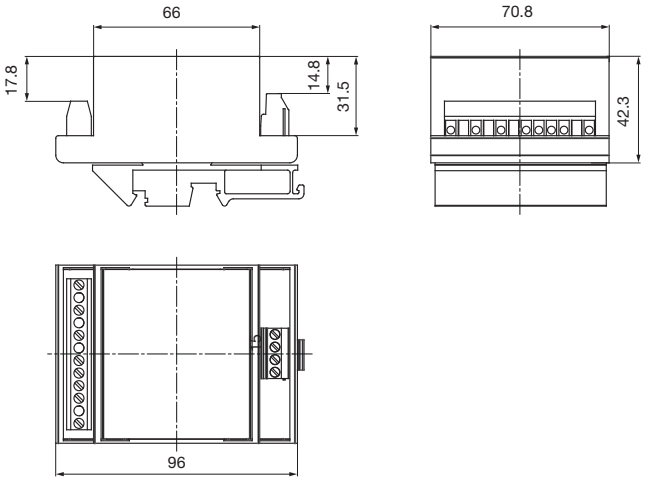
The overexcitation time is set automatically.
The module monitors the movement of the armature disk and emits the determined switching condition via control terminal 2 (signal output).
Critical conditions (line breakages, wear) can be recognised and the respective signal can be emitted via control terminal 3 (error output).

Order Number

__	/	0	2	9	.	7	0	0	.	2

Size
10
20

Dimensions (mm)



Technical Data				104 VDC	180/ 207 VDC
Supply voltage, power terminal		U_I	[VAC]	200 – 480	
Input voltage, control terminal		U_I	[VDC]	24 (SELV/PELV) (19 – 28)	
Output voltage		U_{OUT}	[VDC]	Input voltage (control terminal)	
Output voltage Reduction		U_O	[VDC]	104	207 *
		U_H	[VDC]	52	104
Output voltage overexcitation		U_O	[VDC]	185	360 *
		U_H	[VDC]	104	185 *
Output current	at ≤45 °C	I_{RMS}	[A]	2	
	at ≤60 °C	I_{RMS}	[A]	1	c UL us
	at ≤70 °C	I_{RMS}	[A]	1	CE
Protection				IP20	
Conformity markings				CE c UL us	

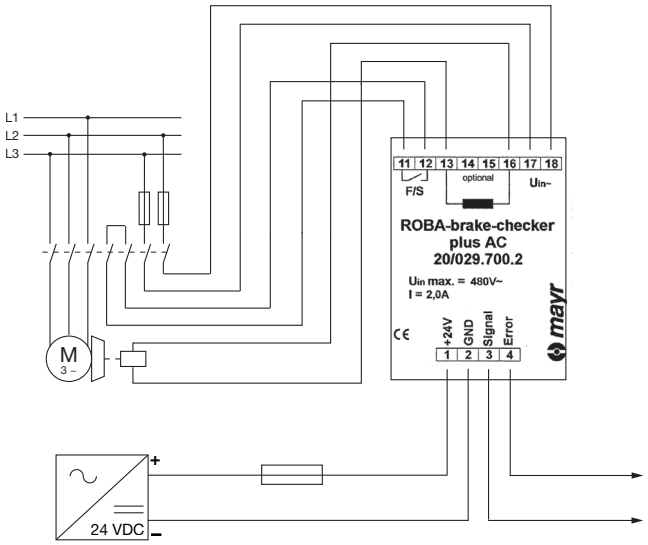
* At least 0.9 × U_I (supply voltage, power terminal) required

Chr. Mayr GmbH + Co. KG
Eichenstraße 1, D-87665 Mauerstetten, Germany
Tel.: +49 8341 804-0, Fax: +49 8341 804-421
www.mayr.com, E-Mail: info@mayr.com

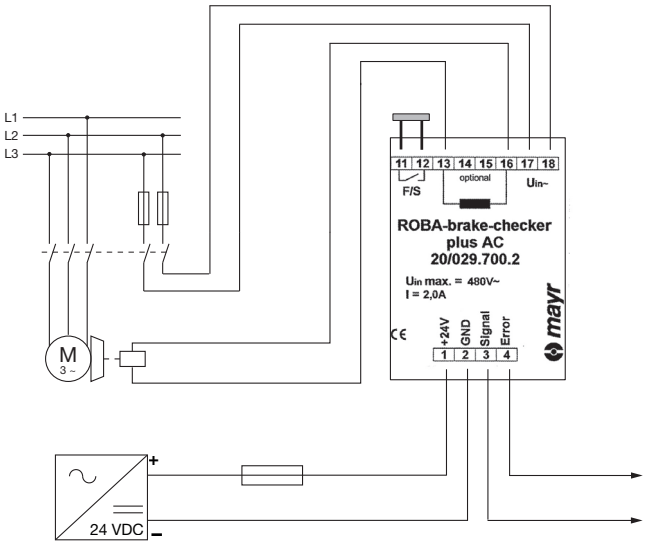
mayr®
your reliable partner

Dimension sheet for
ROBA®-brake-checker plus AC Type 029.700.2 (M.0297002.EN)

Wiring Example
(400 VAC,
DC-side, fast switching)



Wiring Example
(400 VAC,
AC-side, slow switching)



Chr. Mayr GmbH + Co. KG
Eichenstraße 1, D-87665 Mauerstetten, Germany
Tel.: +49 8341 804-0, Fax: +49 8341 804-421
www.mayr.com, E-Mail: info@mayr.com