

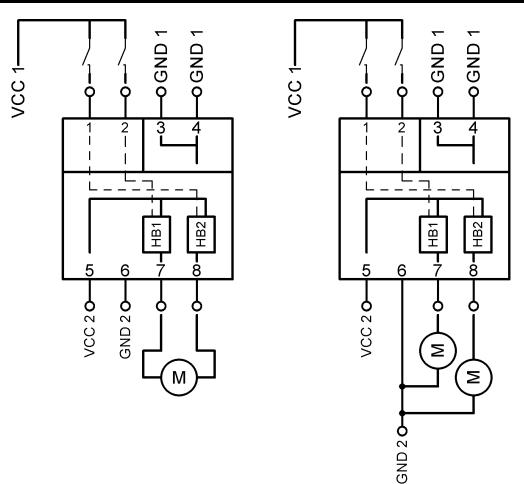
# Datasheet MAXI-GMW-8-30 06.04.203

Other data				
Installation position / Assembly		any / top-hat rail EN 50022		
Installation place, typical		Switch cabinet		
Mountable side by side		Conditional, depending on load current and ambient temperature		
Storage temperature		-30 +85 °C		
Permissible humidity		to 95 %, non-condensing		
Weight		TBD		
Hazardous substance norm		RoHS2		
EMC interference immunity		EN 61000-6-2:2016		
EMC emitted interference		EN 61000-6-3:2007 + A1:2011		
Technical data: digital input		-		
High-Signal typ.		U > 6 V		
Low-Signal typ.		U < 3 V		
Impedance typ.	Rdi	3,3 kΩ		
Flammability				
Housing, terminal, printed circuit board		UL94-HB		

# Description

The module MAXI-GMW-8-30 is a two-quadrant DC motor control for use in an industrial environment. It guarantees the switching on and off of motors. The motor stops always with dynamic braking. The digital input and output circuits are electrically isolated.

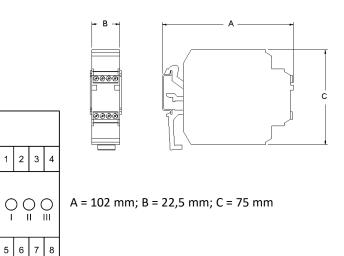
# **Typical applications:**



Continuous le	oad current / total	current	Overload/over temperature switch off			
When operating one motor, the continuous load current specified in the technical data applies.			The device has an integrated overload and over temperature detection. If an event occurs, the motor will be switched off. After cooling down of the device			
When operating 2 motors the total current depends on various factors that must be determined depending on the application. E.g.: ambient temperature, duty cycle, installation situation. The maximum specified total current must not be exceeded.			the motor restarts automatically.			
Short circuit	detection		Dynamic brake			
switches off w	ith dynamic braking e motor can be res	he device the motor and blocks the actual tarted by resetting the	The dynamic brake can't be the motor terminals will be s	e switched off. On each stop switched to GND.		
Terminal diag						
				4		
1 2 3 4	1 Digital input "dir1" (p-switch)	2 Digital input "dir2" (p-switch)	3 GND for Digital input	<b>4</b> GND for Digital input		
	5 Supply VCC	6 Supply GND	7 Motor terminal 1 Switched on from digital input dir2	<b>8</b> Motor terminal 2 Switched on from digital input dir1		
State table						

Direction "dir1" (1)	Direction "dir2" (2)	Motor terminal "7"	Motor terminal "8"	Function	LED "I" yellow	LED "II" red
0	0	GND	GND	dyn. braking	OFF	OFF
1	0	GND	VCC	Dir1	ON	OFF
0	1	VCC	GND	Dir2	OFF	ON
1	1	VCC	VCC	dyn. braking	ON	ON

# **Dimensional drawing**



## Safety notes

## Maximum operational data

The maximum operating data may not be exceeded.

#### Installation

The installation and start-up must be performed by specialist personnel exclusively.

All affected components must be disconnected from the mains.

#### Start-up

For the first start-up, the motor should be operated without load.

#### **Risk of death**

Do not touch live parts after switching on!

The assembly must be operated exclusively on safety extra-low voltage. With operation

on extra-low voltage (e.g. via autotransformer), death or injury can occur.

#### **Fire protection**

The assembly must be installed in a switch cabinet, which is suitable as a fire protection

## enclosure.

The assembly must be safeguarded with a pre-fuse aligned with the nominal data.

#### **Field of application**

The assembly may only be used as intended.

Other components must be checked for their approvals and regulations.

## Safety devices

An additional safety device must be used to bring the system into a safe state in case

of a cable break, incorrect operation, failure of the control/controller unit.

#### EMC / EMI

The wiring must be done according to EMC / EMI standards. If necessary, shielded cables and EMC suppressors must be used for the connected consumer.

For operation in a public low-voltage distribution network, the module must be supplied with an approved AC adapter.

If the module is supplied with an AC adapter, other equipment, operated on the same power supply, must be suitable for use in industrial environments.

# Repairs

Repairs must be performed by authorised persons exclusively. With unauthorised opening,

the warranty cover is voided and this may also result in danger for the user and for the system.

## Maintenance

The assembly is wear-free by design.

For modules **with** cooling openings free air circulation must be checked at the cooling openings or on the housing at regular intervals. If necessary, the cooling holes / the housing must be cleaned. Good ventilation must be ensured.

#### contact details



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