

dimensions **85 x 65x 35.6mm**

frequency range adjustable **10 to 800Hz**

- ✓ plastic housing
- ✓ relay output
- ✓ mounting on DIN-rail
- ✓ LED display
- ✓ terminal connection



adjustable frequency range
top hat rail mounting



description

Monitoring the rotation speed of frequency-controlled drives is becoming increasingly important. The digital overspeed protection **VY860800** has been developed for this task. The main focus here is on ease of integration of the system into new and old systems.

The component evaluates the signals of a current transformer (for 50A, 100A or 200A), which is slid onto a wire of the drive supply cable and connected to the evaluation **VY860800**.

The rotation speed is monitored by determining the frequency which is transmitted from the frequency converter to the motor.

The device compares the recorded frequency with a previously taught-in maximum frequency. If this value exceeds a tolerance that is set using a potentiometer (5 to 5%), the device activates an integrated alarm relay via which the drive

can be switched off. This alarm relay remains set until a signal that is at least 300ms long is applied to the reset input of the component.

The **VY860800** only requires +24V DC as a supply voltage. The small installation dimensions (35.6mm wide) ensures that the device can be easily installed in confined spaces.

The integrated relay has a changeover contact to which 250V AC/1.5A can be applied. The monitoring frequency range is between 10 and 800Hz.

Other advantages are the easily accessible screw connection terminals and the facility for connecting to a top-hat rail in the switching cabinet.

application examples

- ▶ Motor speed control

article-no.

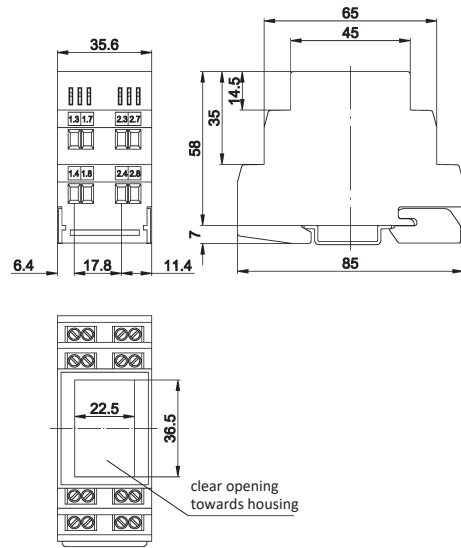
VY860800

output

relay

connection

terminals

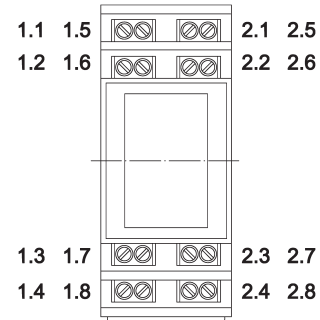


TECHNICAL DATA

inputs	current transformers (max. 1W), reset (minimum pulse length 300ms)
setting	button (teach-in), trimmer (rotation speed offset 1 ... 5%)
operating voltage	24V DC $\pm 20\%$
current consumption (w/o load)	< 15mA
relay output	nc
output current (max. load)	1.5A (for 250V AC)
display (operation)	green LED
display (function)	yellow LED
display (alarm)	red LED, excess rotation speed
display (teach)	red LED, flashing
reverse polarity protection	+
dimensions	85 x 65 x 35.6mm
housing material	plastic PC
operating temperature	-25 ... +75°C
degree of protection (EN60529)	IP20
connection	terminals
mounting	DIN rail assembly
accessories	current transformers NY98A943 (50A) / NY98A964 (100A) / NY98C491 (200A)

connection terminal

1.1 & 1.5	+24V DC $\pm 20\%$
2.1 & 2.5	GND (+24V)
1.2 & 1.6	current transformer connection
2.2 & 2.6	current transformer shield
1.4 & 1.8	COM relay
2.4 & 2.8	NC relay
1.3 & 1.7	reset
2.7	not assigned
2.3	not assigned



This data sheet contains only the available standard versions. Please contact us for other output and connection versions.

Warning: Never use these devices in applications where the safety of a person depends on their functionality.

This data sheet as well as your personal contact can be found at www.ipf-electronic.com