QUALITY VIBRATION CONTROL

CONTROLLER FOR INDUSTRIAL ELETTROMAGNETIC VIBRATORS

SHORT FORM
**Electronic Stabilized Circuit**

**R3FC-IP55**
- **Voltage:** 230V/115V 50/60Hz - current max 3A rms
- **Features:** ON/OFF - 3000/6000 V/min - min/max - ramp
- **Applications:** linear feeders - small bowl feeders till 3A
- **Options:** IP65/NEMA4/4X-box aluminum - with sensor NPN/PNP
- **Dimensions:** 100 x 100 x 50 mm

**Electronics Stabilized Circuit**

**RM3-IP65**
- **Voltage:** 230V/115V 50/60Hz - current max 3A rms
- **Features:** ON/OFF - 3000/6000 V/min - min/max - ramp
- **Applications:** linear feeders - small bowl feeders till 3A
- **Options:** custom label
- **Dimensions:** 100 x 100 x 50 mm

**Electronic Stabilized Circuit**

**R3FSC-IP55**
- **Voltage:** 230V/115V 50/60Hz - current max 4A rms
- **Features:** 2 ON/OFF - 3000/6000 V/min - Overload-min/max - ramp
- **Applications:** linear feeders - bowl feeders till 4A
- **Options:** NEMA 4/4X - vertical assembly DIN35
- **Dimensions:** 115 x 140 x 60mm

**Electronic Stabilized Circuit**

**R5FC-IP55**
- **Voltage:** 230V/115V 50/60Hz - current max 6,3A rms
- **Features:** 2 ON/OFF-3000/6000 V/min - Overload -min/max - ramp
- **Applications:** linear feeders - bowl feeders till 6A
- **Options:** IP65 (NEMA 4/4X)-box alum.-DIN35-with sensor (PRX92)
- **Dimensions:** 130 x 165 x 70mm

**Electronic Stabilized Circuit**

**VBS06 - IP65**
- **Voltage:** 230V or 115V 50/60Hz - current max 6,3A rms
- **Features:** 2 ON/OFF - 3000/6000 V/min - min/max - ramp
- **Applications:** linear feeders - bowl feeders till 6A
- **Options:** NEMA4/4X-plastic box-custom label
- **Dimensions:** 140 x 165 x 65mm
**Electronic Stabilized Circuit RS96C - IP65**

- **Voltage**: 230V/115V 50/60Hz - current max 6,3A rms
- **Features**: 2 ON/OFF-3000/6000 V/min - Overload -min/max - ramp
- **Applications**: linear feeders - bowl feeders till 6A
- **Options**: IP65(NEMA 4/4X)-box alum.-DIN35-with sensor (PRX92)
- **Dimensions**: 115 x 140 x 60mm

**Electronic Stabilized Circuit RS96 - IP65**

- **Voltage**: 230V-400V 50/60Hz - current max 6,3A/8A rms
- **Features**: 2 ON/OFF - 3000/6000 V/min - input PLC 0/10V 0/20mA- ramp - min/max (man-aut) - 3 ON/OFF
- **Applications**: linear vibrator - bowl feeders
- **Options**: IP65(NEMA 4/4X) plastic box-vertical assembly DIN35
- **Dimensions**: 115 x 140 x 60mm

**Electronic Stabilized Circuit CV99-IP65**

- **Voltage**: 230V/115V 50/60Hz - current max 6,3A-8A rms
- **Features**: 3 ON/OFF - 3000/6000 V/min - input PLC 0/10V 0/20mA- ramp - min/max (man-aut)
- **Applications**: linear feeders - bowl feeders till 6,3A
- **Options**: custom label-DIN35
- **Dimensions**: 100 x 200 x 80mm

**Electronic Stabilized Circuit RV6-RV6S - IP65**

- **Voltage**: 115V or 230V or 400V 50/60Hz - current 6,3A
- **Features**: 3 ON/OFF - 3000/6000 V/min - input PLC 0-10V 0-20mA- ramp - min/max - ramp
- **Applications**: linear feeders - bowl feeders till 6,3A
- **Options**: custom label-circuit PRX97 to NPN sensor
- **Dimensions**: 130 x 130 x 90mm

**Electronic Circuit for Time Delayed Vibrator Stop PRX92**

- **Voltage**: 230V or 115V 50/60Hz
- **Features**: for sensor NPN/PNP-2 delay ON/OFF
- **Applications**: ON/OFF vibrator by sensor NPN/PNP
- **Options**: with circuits R5FC-CV99-CV6
- **Dimensions**: 95 x 165 x 35mm
### Electronic Circuit for Time Delayed Vibrator Stop PRX99

- **Voltage:** 230V or 115V 50/60Hz
- **Features:** For sens.NPN/PNP-2 delay ON/OFF-allarm absence pieces
- **Applications:** ON/OFF vibrator by sensor NPN/PNP with allarm EV.air dalay - 24Vca
- **Options:** with circuits R5FC-CV99-CV6/F
- **Dimensions:** 95 x 65 x 35mm

### Electronic Stabilized Circuit CV6/F-CV8/F - IP55/IP65

- **Voltage:** 230V-400V 50/60Hz - current max 6,3A/8A rms
- **Features:** 2 ON/OFF - 3000/6000 V/min - input PLC 0/10V 0/20mA- ramp - min/max (man-aut) - 3 ON/OFF
- **Applications:** linear vibrator - bowl feeders
- **Options:** IP65(NEMA 4/4X) plastic box-vertical assembly DIN35
- **Dimensions:** 130 x 200 x 90mm

### Electronic Stabilized Circuit CV - IP55-IP65

- **Voltage:** 230V-400V till 600V 50/60Hz
corr. max 12/24/40/70 rms
- **Features:** see circuit CV6/F + ON/OFF with voltage signal
- **Applications:** industrial vibrators till 70A
- **Options:** IP65(NEMA 4/4X) - double speed/output-relay ON
- **Dimensions:** 200 x 250 x 120mm - 235 x 265 x 120mm

### Electronic Amplitude Stabilized Circuit CV6/FS - IP55

- **Voltage:** 230V/400V 50/60Hz - current max 6,3A/8A rms
- **Features:** see circuit CV6/F - CV8F
- **Applications:** amplitude control with sensor SIND1/SIND2
- **Options:** IP65 - metal box - vertical assembly DIN35
- **Dimensions:** 165 x 130 x 70mm - 130 x 200 x 90mm

### Electronic Amplitude Stabilized Circuit CV/S - IP55

- **Voltage:** 230V-400V till 600V 50/60Hz.
corr. max 12/24/40/70 rms
- **Features:** see circuit CV6/F + ON/OFF with voltage signal
- **Applications:** amplitude control with sensor SIND1/SIND2
- **Options:** IP65(NEMA 4/4X) - double speed/output-relay ON
- **Dimensions:** 200 x 250 x 120mm - 235 x 265 x 120mm
**Variable Frequency/Amplitude Control Circuit**

**FQ1/FQ2**

- **Voltage:** 230V 50/60Hz - current max 3.15-6.3A rms
- **Features:** ON/OFF - 3000/6000 V/m - output 50 or 60Hz
- **Options:** IP65(NEMA 4/4X) - digital frequency counter
- **Dimensions:** 168 x 190 x 80mm - 140 x 165 x 70mm

**Digital Amplitude/Frequency**

**RF4-PWM - IP65**

- **Voltage:** 115 o 230V 50/60Hz - current max 4A rms
- **Features:** Amplitude/Frequency regulation 0÷10V
- **Applications:** Linear feeders - bowl feeders till 4A
- **Options:** Custom label - bloked knob-DIN35
- **Dimensions:** 130 x 130 x 90mm

**FQ1 PWM - IP65**

- **Voltage:** 115/230V 50/60Hz - current max 6.3A rms
- **Features:** Amplitude/Frequency regulation 0÷10V
- **Applications:** Linear feeders - bowl feeders till 4A
- **Options:** Custom label - bloked knob-DIN35
- **Dimensions:** 195 x 130 x 90mm

**Digital Amplitude/Frequency**

**FQ1 DIG./FQ1LCD CONTROLLER**

- **Voltage:** 115 o 230V 50/60Hz - current max 10A/12A rms
- **Features:** Amplitude/Frequency regulation 5-140 Hz
- **Applications:** Linear feeders - bowl feeders
- **Options:** 2 input PNP sensor - amplitude sensor SIND3
- **Dimensions:** 200 x 240 x 120 mm

**System for Linear - Bowl Feeder**

**MDL02 - IP65**

- **Voltage:** 115/230V 50/60Hz - current max 4-6.3A rms
- **Features:** Linear and bowl feeders with NPN/PNP sensor
- **Applications:** automatic driving vibrators
- **Options:** custom label
- **Dimensions:** 130 x 195 x 90mm
### Controller for Electromagnetic Vibrators MDL

- **Voltage**: 115/230V 50/60Hz - current max 6,3/8A rms
- **Features**: for linear, bowl feeder, hopper or elevator
- **Applications**: automatic driving electromagnetic vibrators
- **Options**: IP65 (NEMA 4/4X) - 115V 50/60Hz
- **Dimensions**: 390x200x100 - 260x200x100 - 300x200x100

### Electronic Monitoring Circuit with Amplitude Sensor ALIM01

- **Voltage**: 230V/400V 50/60Hz - IP65
- **Features**: monitoring amplitude electromagnetic and mechanical vibrators
- **Applications**: control min/max vibration amplitude
- **Options**: IP65 (NEMA 4/4X) - amplitude meter with allarms
- **Dimensions**: 140 x 165 x 70mm

### 3 Phase Motor-Driven Feeder MTR01

- **Voltage**: 3X400V 50/60Hz
- **Features**: Input NPN/PNP sensor-delay ON/OFF-alarm absence
- **Applications**: 3 phase motor-driven feeder with NPN/PNP sensor
- **Options**: Custom label-DIN35
- **Dimensions**: 130 x 195 x 90mm

### General Electrical Characteristics

- **REG MIN MAN/AUT.**: 80V +/- 30%
- **REG MAX MAN/AUT.**: 200V - 30%
- **TIME ON/OFF/ALLARM**: 0/15 sec
- **TIME DI RAMP**: 0,2/2sec
- **DEGREE OF POLLUTION**: 2
- **POSITION OF ASSEMBLAGE**: Horizontal or Vertical
- **DEGREE OF PROTECTION**: IP55 in box (IP00 only circuit)
- **TEMPERATURE OF STORAGE**: -15 °C / + 80 °C
- **TEMPERATURE OF OPERATION**: -5 °C / + 45 °C
- **RANGE OF RELATIVE HUMIDITY**: 80% till to 31°C
- **INSTALLATION CLASS**: II
- **ALTITUDE**: Till to 2000 meters
- **EUROPEAN NORMS**: EMC CE
- **GUARANTEE**: 1 year (from date on circuit)
**FQ1 PWM**

- **CURRENT MAX:** 6,3A RMS
- **Dimension:** 190x168x80

**FQ2**

- **CURRENT MAX:** 4A RMS
- **Dimension:** 130x130x90

**RF4 PWM**

- **CURRENT MAX:** 4A RMS
- **Dimension:** 130x130x90

**FQ1 LCD**

- **CURRENT MAX:** 10A RMS
- **Dimension:** 240x200x120

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**FQ1 PWM**

- **CURRENT MAX:** 6,3A RMS
- **Dimension:** 195x130x90

**FQ1 LCD**

- **CURRENT MAX:** 10A RMS
- **Dimension:** 240x200x120
**Company Profile**

M.P. Elettronica boasts of more than 20 years experience in the design and marketing of electronic control systems and circuits for vibratory units and electromagnetic linear vibratory feeders in widely differing configurations. Our innovative technical solutions and implementation of customized application systems have enabled us to establish a leading position in the specific sector of electromagnetic vibration. Our production ranges (all stabilized circuits; the vibratory feeder vibrates with the same amplitude against a variation of +/- 20% in the mains voltage) from the 3A control system to that of 70A (100A on request) with PLC automatic input 0/10V - 4/20ma (series “CV”) and series CVS amplitude stabilized with vibration sensor SIND2 which fully stabilizes the vibrations of the vibratory feeder regardless of its load conditions, and FQ1 DIG, digital Amplitude/Frequency controller with microprocessor and Amplitude sensor SIND3. Circuits are also available (PRX92-PRX99) for sensor NPN/PNP, used for ON/OFF vibrator with delay. Thanks to the great reliability of our circuits, designed and produced by us with relative certification, our vast experience and highly professional level of our organization, we have steadily gained larger and larger market shares. In this specific sector we have a total production of thousands of control units. We maintain a consistent level of research and commitment to ensure a continuous development and extension of circuits applied to electromagnetic vibration.

**Special Versions on request**
- Inox Box - IP66 (NEMA 4/4X)
- Driving module for multiple vibrators
- Double speed - double output
- Customized versions and labels
- Voltage from 24VAc to 600VAc
- Driving vibrators 1500 V/m - 750 V/m
- Controllers with feedback for mills

**Ask us General Catalogue and CD ROM**

mp@mpelettronica.com

www.mpelettronica.com