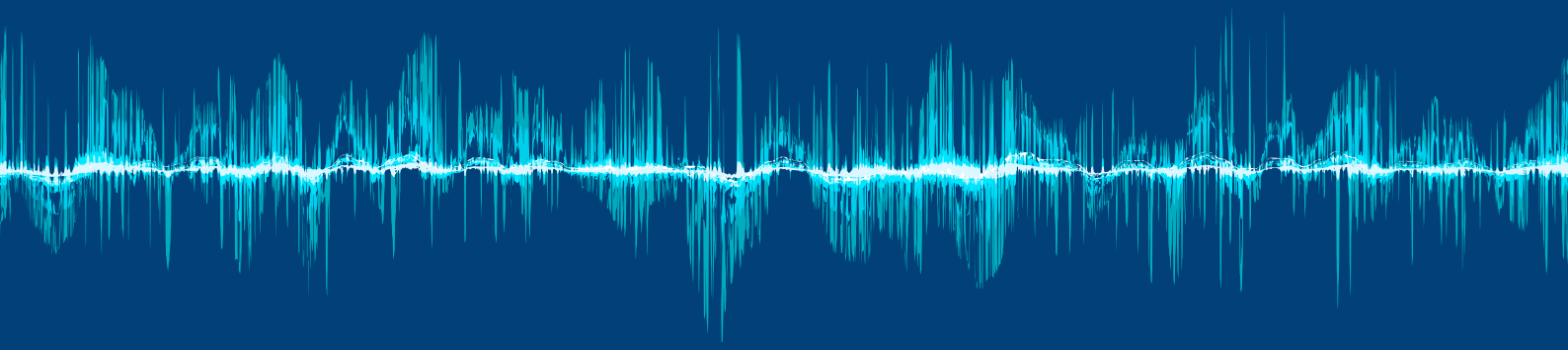
MPI ELETTRONICA
QUALITY VIBRATION CONTROL

SINCE 1988

SERIES FOR LIGHT VIBRATORS



CONTROLLER FOR INDUSTRIAL ELECTROMAGNETIC VIBRATORS

PRODUCT SPECIFICATION

MADE IN ITALY

MP Elettronica srl
Elettronica Industriale - Sistemi Elettronici - Engineering
Sesto S. Giovanni (MI) - Tel. 02 2403864 - Fax 02 2400643
www.mpelettronica.com - mp@mpelettronica.com

Electronic Controller for Electromagnetic Vibrator

COMPANY PROFILE

MP Elettronica was established more than **35** years ago in Italy and since **1998** the quality management system of the company is certified **ISO 9001:2015**. The company is based in Milan (Italy). Since its establishment MP Elettronica designs, engineers and manufactures controllers for electromagnetic vibrators and nowadays the company has affirmed its market leader position due to its innovative solutions and products. In **1994** the company turns to the current corporate structure and in **1996** opens the local branch in the region of Varese where products are designed and tested. Here the innovative first circuit Amplitude / Analog Frequency was designed and manufactured for the first time and during the years it has replaced the Microprocessor Digital series.

The strengths of MP Elettronica are:

- Technological Know How on designing and expertise in the field
- Customization of the products according the Customer needs (also for small quantity)
- High standards of certified Quality system (UNI EN ISO 9001:2015)
- 99.64% reliability of the products and warranty
- Prompt and lasting technical support through different communication channels
- Flexibility and Fast Delivery
- Excellent Relationship between Quality and Price

The products are highly reliable, certified and comply with the regulations. During the years MP ELETTRONICA has steadily expanded both in national and international markets due to its great experience and expertise in the field.
Nowadays MP Elettronica is a leader company in the field of **controllers for electromagnetic vibrators** and manufactures thousands of controls units which are employed in the different industrial sectors.
The company employs lasting resources in research and commitment aiming at the development of the controllers. The strong relationship between the Company and Customers has lead to improve the wide range of innovative products in the catalogue. The catalogue already includes electronic controllers driven by microprocessor with standard or customized software.
The **Mission** MP Elettronica supplies products and provides integrated solutions to fully meet the needs of its Customers. The company assures the right solution for all Customers' applications, fast and reliable technical support and a delivery time in the next 24 hours.

MP Elettronica is a growing company which successfully exports the products worldwide. Designing and Engineering regularly improve the functions and performances of the products and follow the trend of the Automation market by investing important resources in Research and Development fields.



IQNET Registrazione N° it-1329

QUALITY SYSTEM



Certificato CSQ N° 9105.MPEL

Special executions 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 - engineering.

Codes of the Products

Our products are identified according to the following scheme: (Lack of model will be replaced by X)

PV YYYYY Z H KKK

Product name	Circuit	Tension/Feeding	Customization
• R3FCX • R5FCX • CV6X • FQPWM • CV20S	• A-circuit • D-din • Z-box	• **1**-115V / • **2**-230V • **3**-400V / • **4**-23/400V • **5**-till to 500V • **6**-400V three phase • **7**-400V 3 phase+neuter	• **STD**-standard • **ABC**-customer code • execution • **SM1-STM**-metal box • **STP**-plastic box

SINCE 1988

MPI ELETTRONICA
QUALITY VIBRATION CONTROL

UNI EN ISO 9001:2015 - CERT.9105 MPEL

INDEX

SMART-ISO SERIES

SMART

Code :	*R3FC • R3FSC • R5FC • R4FC • VBS06 • *CV99 - ISO: R3FC-ISO • R3FSC-ISO • R5FC-ISO*
Voltage :	*230V/115V • 50/60Hz • corrent max 3/4/6/8/10 A RMS*
Features :	*ON/OFF • 3000/6000 V/min • min/max • ramp*
Applications :	*Linear feeders • small bowl feeders till 6A*
Options :	*IP65 (NEMA4/4X) • box aluminum • with sensor NPN/PNP*
*	*Input 0÷10V - 0÷20mA*

PRX SERIES

PRX

Code :	*PRX92 • PRX99 • PRX13*
Voltage :	*230V o 115V • 50/60Hz*
Features :	*For sensor NPN/PNP • 2 delay ON/OFF*
Applications :	*Linear and bowl feeder "OVERFULL" check*
Options :	*With circuits R5FC • CV99 • CV6*

INDUSTRIAL SERIES

INDUSTRIAL

Code :	*CV6/17-CV8/17 • CV12/17-CV15/17 • CV25/17 • CV40/17 • CV70/17 • CV100/17*
Voltage :	*230V • 400V till 550V • 50/60Hz • corrent max 6/8/12/15/20/25/40/70/100 A RMS*
Features :	*3000/6000 V/min • input PLC 0/10V-0/20mA• ramp • min/max (man•aut) • 3 ON/OFF • Alarm • Input* **double insulation**
Applications :	*linear vibrator • bowl feeders*
Options :	*IP65 • vertical assembly DIN35 (only CV8) • INOX box • 1500 vib/m • 750 vib/m • 25 Hz - 33 Hz*
Code :	*CV6FS-CV8FS • CV12FS-CV15FS • CV25FS • CV40FS • CV70FS • CV100FS*
Voltage :	*230V • 400V till 550V • 50/60Hz • corrent max 6/8/12/15/20/25/40/70/100 A RMS*
Features :	*3000/6000 V/min • input PLC 0/10V-0/20mA• ramp • min/max (man•aut) • 3 ON/OFF • Alarm*
Applications :	***linear vibrator • bowl feeders (with amplitude sensor SIND2)***
Options :	*IP65 • vertical assembly DIN35 (only CV8) • INOX box • 1500 vib/m • 750 vib/m • 25 Hz - 33 Hz*

DIGITAL SERIES AMPLITUDE/FREQUENCY

DIGITAL

Code :	*RF4 PWM • RF4 PWM/N • FQ1 PWM • FQ1 PWM/HC • FQ1NG • FQ2NG • FQ3NG*
Voltage :	*85/260V • 50/60Hz • current max 4/6/8/10/12/16 A RMS*
Features :	*0/10V - 0/20mA • 2 sensors PNP • 30÷130 Hz • 5÷200 Hz*
Applications :	***Amplitude/Frequency digital regulation for vibrator till 16A***
Options :	*Custom label • 5÷300 Hz • amplitude sensor SIND3*

MCP (DIGITAL) SERIES

MDL/MCP

Code :	*MCP01 • MCP02 • MCP03 • MCP01/LT • MCP02/LT*
Voltage :	*85/260V • 50/60Hz • current max 6,3/8A RMS*
Features :	*Drive system for linear • sensor NPN/PNP • Blow feeder • sensor NPN/PNP • Hopper or motor elevator*
Applications :	***Automatic feeders system***

MTR SERIES

MTR

Code :	*MTR01 • MTR01 DIG (DIGITAL)*
Voltage :	*3x400V • 50/60Hz • 3x230V • 50/60 Hz • 230V 50/60Hz*
Features :	***3 Phase Motor-Driven Feeder and input sensor NPN/PNP***
Applications :	***3 Phase Motor-Driven Feeder with NPN/PNP sensor On/Off delay and Allarm delay***
Options :	*Custom label • Din35 version (MTR01) • custom SW (MTR01 DIG)*

INSTRUMENTS SERIES

INSTRUMENTS

Code :	*AMP METER • VIBROMETER • ALIM01*
Voltage :	*230V/400V • 50/60Hz*
Features :	***Amplitude check control with alarms (ALIM01) • current control (AMP-VIB)***
Applications :	***Amplitude of vibration monitoring with alarms (ALIM01)• current max measurement in electromagnetic vibrators (AMP-VIB)***
Options :	*IP65 • % amplitude instrument (MTR01) • Voltmeter (AMP-VIB) • DIN35*

Stabilized electronic controller for electromagnetic vibrators

Code : *R3FC • R3FSC • R5FC • R4FC • VBS06 • *CV99 - ISO: R3FC-ISO • R3FSC-ISO • R5FC-ISO*

Voltage : *230V/115V • 50/60Hz • corrent max 3/4/6/8/10 A RMS*

R3FC PV R3FCX Z2 STD 4A RMS Max



Protection	Box
IP55	Plastic 100x100x50

R3FC PV R3FCX Z2 STM 4A RMS Max



Protection	Box
IP65	Aluminium 100x100x50

R3FSC PV R3FSC Z2 STD 5A RMS Max



Protection	Box
IP55	Plastic 165x100x67

R3FSC PV R3FSC Z2 STM 5A RMS Max



Protection	Box
IP65	Aluminium 140x115x60

CV6F PV CV617 Z2 STD 6,3A RMS Max

R5C PV R5FCX Z2 STD 6,3A RMS Max



CV6FS 6,3A



SIND2 Amplitude Sensor

Protection	Box
IP55	Plastic 165x130x70

R5C PV R5FCX Z2 STM 6,3A RMS Max

CV6F PV CV617 Z2 STM 6,3A RMS Max



CV6FS 6,3A



SIND2 Amplitude Sensor

Protection	Box
IP65	Aluminium 165x140x65

Cross reference : Controller serie SMART - serie ISO

	R3FC	R3FC-ISO	R3FSC	R3FSC-ISO	R5FC	R5FC-ISO	CV99	R4FC
Voltage 50/60 Hz	115 o 230	115 o 230	115 o 230	115 o 230	115 o 230	115 o 230	115 o 230	115 o 230
Amps	4	4	4	5	6	6/8	6	5/6
ON/OFF Free Voltage	●	●	●	●	●	●	●	●
ON/OFF Signal Voltage	–	●	●	●	●	●	●	●
Sensor NPN/PNP	●	●	●	●	●	●	●	●
0/10V 0/20 mA	–	–	–	–	–	–	●	●
Amplitude Regulation	Man. Pot.	Man. Pot.	Man. Pot.	Man. Pot.	Man. Pot.	Man. Pot.	Man. Pot. Autom.	Man. Pot. Autom.
Freq. Output 50/100 Hz 60/120 Hz	3000/6000 3600/7200	3000/6000 3600/7200	3000/6000 3600/7200	3000/6000 3600/7200	3000/6000 3600/7200	3000/6000 3600/7200	3000/6000 3600/7200	3000/6000 3600/7200
Slow/Fast Time Ramp	●	●	●	●	●	●	●	●
Reg. Volt Min/Max	●	●	●	●	●	●	●	●
EMC - CE	●	●	●	●	●	●	●	●
Overload	–	–	●	–	●	–	–	–
IP	65	65	65	65	65	65	65	65
Dimensions	100x100x50	100x100x50	100x150x80 115x140x60	100x150x80 115x140x60	130x165x70 140x165x65	130x165x70 140x165x65	100x200x80	100x150x80 115x140x60
DIN35	●	●	●	●	●	●	●	●
Photo	1-2	2	3-4	3-4	5-6	5-6	7	3

All controllers are stabilized

Other voltage on request

1/3/4 *with Circuit PRX92-PRX99 inside*


1


2


3


4


5


6


7


8

Electronic Controller for Electromagnetic Vibratory Feeders

R3FC

4A | 115V 230V | IP 65

General

Stabilized, compact and economic controller. This controller is available in the following versions: only circuit, circuit with DIN35 support and external potentiometer, plastic or metallic box.

General Characteristics

Voltage 115/230V, 50/60 Hz • 3000/6000 vpm • Input ON/OFF • Slow/fast ramp • Reg. vibration min/max •Led ON • Line input with schuko plug• Vibrator output with connector.

Applications

Regulations of linear feeders and small bowl feeders till 4 Amps.

Options

Box IP65 (NEMA 4/4X) • Customized label • Connector for vibrator.

Technical Specs

Feeding Tension:	115/230 V ± 10% – 50/60 Hz
Consumption:	1,5 W max
Max Current:	4 A (RMS)
Min Load:	50 mA (RMS)
Vibration Frequency:	3000/6000 vpm (50 Hz) RC-AC
Ramp Time:	0,2 sec. / 2 sec. (adjustable)
Min Regulation:	80 V ± 30%
Max Regulation:	220 V - 30%
On/Off:	free voltage contact
Protection Degree:	IP55 in box (IP65-NEMA 4/4X)
Storage Temperature:	–15°C / +80°C
Operation Temperature:	–5°C / +55°C
European Norms:	EMC CE
Warranty:	1 year (from date on circuit)



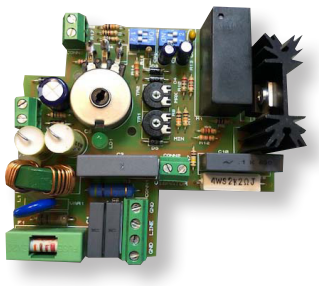
METALLIC BOX
PV R3FCX Z2 STM
100x100x50



METALLIC BOX
PV R3FCX Z2 SM1
100x100x50



PLASTIC BOX
PV R3FCX Z2 STD
100x100x50



CIRCUIT
PV R3FCX A2 STD

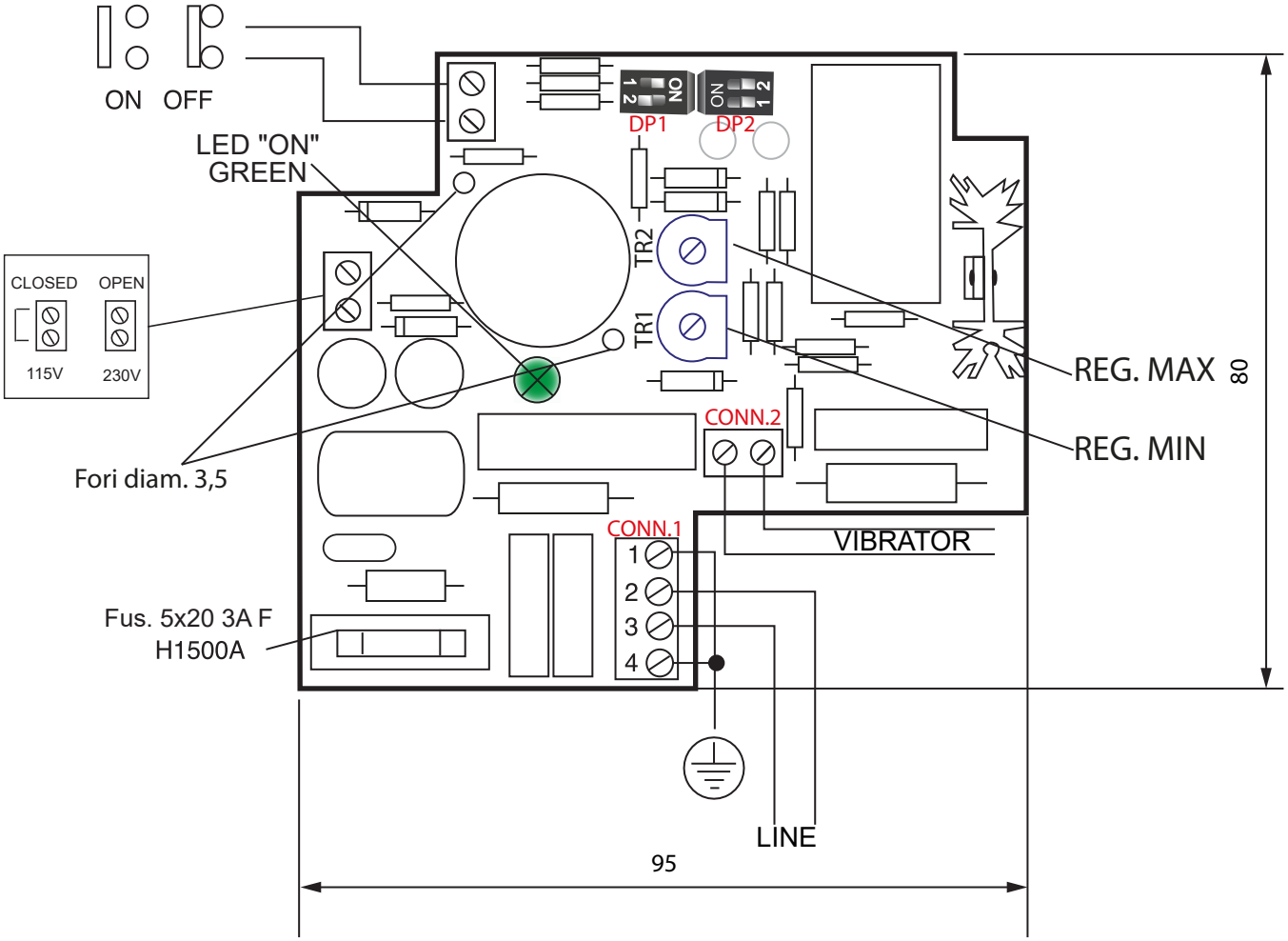
Available Versions

Type	Box	Colour	Dimensions	Code	Price €
R3FC	Circuit		80 x 95 x 35	PV R3FCX A2 STD	
R3FC	Fire-retardant plastic	RAL 7035	100 x 100 x 50	PV R3FCX Z2 STD	
R3FC	Aluminum	RAL 7035	100 x 100 x 50	PV R3FCX Z2 STM	
R3FC/DIN	Circuit DIN35		115 x 185 x 50	PV R3FCX D2 STD	
R3FC+PRX92	+ circuit for sensor NPN/PNP		100 x 100 x 50	PV R3P92 Z2 STD	

DP1 3000/6000		DP2 FAST/SLOW	
			
3000	6000	FAST	SLOW

SMART

USE CONTACS WITHOUT VOLTAGE !



NOTE

If you are using the circuit (IP00) insert it and wire it in a box that could guarantee a degree of safety that complies with current European regulations and isolate the terminals of the potentiometer with the rubbers supplied. We decline any responsibility for improper use of the circuit.

When change from 3000 to 6000 (vibration at minute) or from 6000 to 3000 to control MIN vibration.

Sketch and technical specs are subjected to modification without notice without warning.

MP ELETTRONICA
QUALITY VIBRATION CONTROL

Description: **CONTROL CIRCUIT R3FC (STABILIZED)**

CODE	REV	DATE	DRAFTSMAN	SHEET
DTR3FC	00	02/03	E. PEDRAZZI	1/1

Electronic Controller for Electromagnetic Vibratory Feeders

R3FSC 5/6A 115V 230V IP 65

General

Stabilized, compact and economic controller. This controller is available in the following versions: only circuit, circuit with DIN35 support and external potentiometer, plastic or metallic box.

General Characteristics

Voltage 115/230V, 50/60 Hz • 3000/6000 vpm • Input Double ON/OFF(free contact, signal voltage) • Slow/fast ramp • Reg. vibration min/max • Led ON • Overload function• Line input with schuko plug • Vibrator output with connector.

Applications

Regulation of linear feeders and small bowl feeders till 6 Amps.

Options

Box IP65 (NEMA 4X) • Customized label • Connector for vibrator.

Technical Specs

Feeding Tension:	115/230 V ± 10% – 50/60 Hz
Consumption:	1,5 W max
Max Current:	5/6A (RMS)
Min Load:	50 mA (RMS)
Vibration Frequency:	3000/6000 vpm (50 Hz) RC-AC
Ramp Time:	0,2 sec. / 2 sec. (adjustable)
Min Regulation:	80 V ± 30%
Max Regulation:	220 V - 30%
On/Off:	free voltage contact
Protection Degree:	IP55 in box (IP65-NEMA 4/4X)
Storage Temperature:	–15°C / +80°C
Operation Temperature:	–5°C / +55°C
European Norms:	EMC CE
Warranty:	1 year (from date on circuit)



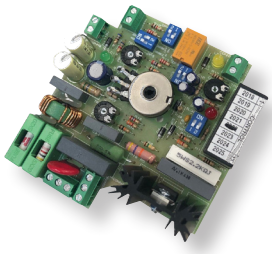
METALLIC BOX
PV R3FSC Z2 STM
140x115x60



METALLIC BOX
PV R3FSC Z2 SM1
150x100x80



PLASTIC BOX
PV R3FSC Z2 STD
165x100x67

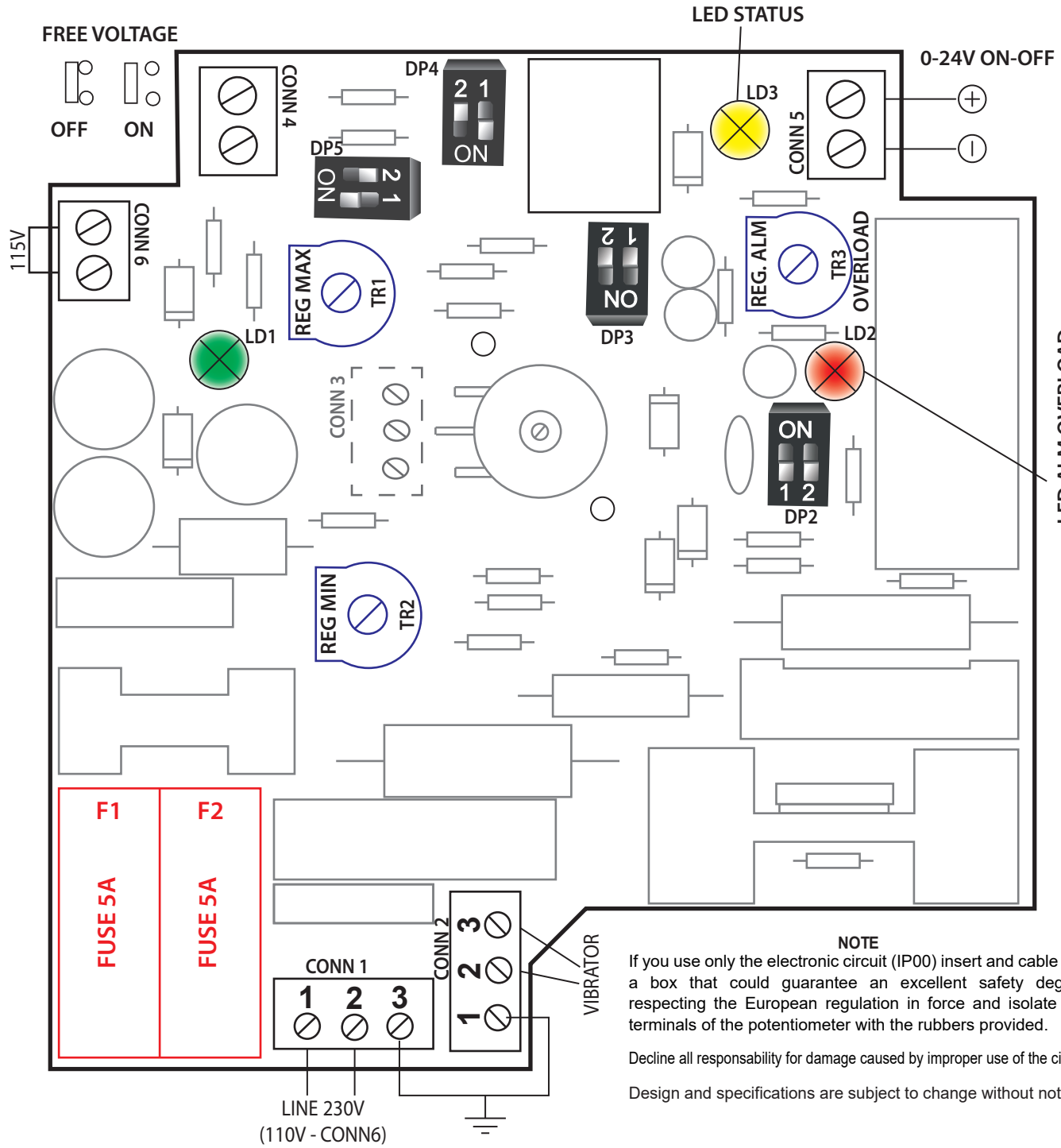


CIRCUIT
PV R3FSC A2 STD

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
R3FSC	Circuit		94 x 94 x 35	PV R3FSC A2 STD	
R3FSC/DIN	Circuit		115 x 185 x 50	PV R3FSC D2 STD	
R3FSC	Fire-retardant plastic	RAL 7035	165 x 100 x 67	PV R3FSC Z2 STD	
R3FSC	Aluminum	RAL 7035	140 x 115 x 60	PV R3FSC Z2 STM	
R3FSC	Aluminum	RAL 7035	150 x 100 x 80	PV R3FSC Z2 SM1	

SMART



NOTE

If you use only the electronic circuit (IP00) insert and cable it in a box that could guarantee an excellent safety degree respecting the European regulation in force and isolate the terminals of the potentiometer with the rubbers provided.

Decline all responsability for damage caused by improper use of the circuit

Design and specifications are subject to change without notice

DP2 (RAMP)

FAST — ON 1 2

SLOW — ON 1 2

DP3 (OVERLOAD)

ALM OFF — ON 1 2

ALM ON — ON 1 2

DP4 (LOGIC ON/OFF)

NORMAL OFF — ON 1 2

NORMAL ON — ON 1 2

DP5 3000/6000 Vm)

6000
100Hz
7200
120Hz

ON 1 2

3000
50Hz
3600
60Hz

ON 1 2

MP ELETTRONICA
QUALITY VIBRATION CONTROL

Description: CONTROL CIRCUIT R3FSC STABILIZED

CODE	REV	DATE	DRAFTSMAN	SHEET
R3FSN	00	08/22	E. PEDRAZZI	1/1

Electronic Controller for Electromagnetic Vibratory Feeders

R5FC 6/8A 115V 230V IP 65

General

Stabilized, compact and economic controller. This controller is available in the following versions: only circuit, circuit with DIN35 support and external potentiometer, plastic or metallic box.

General Characteristics

Voltage 115/230V, 50/60 Hz • 3000/6000 vpm • Input Double ON/OFF(free contact voltage, signal voltage) • Slow/fast ramp • Reg. vibration min/max • Led ON • Overload function • Line input with schuko plug • Vibrator output with connector.

Applications

Regulation of linear vibrators and small bowl feeders till 8 Amps.

Options

Box IP65 (NEMA 4/4X) • INOX Box • Customized label • Connector for vibrator. Available with circuit PRX92 or PRX99.

Technical Specs

Feeding Tension:	115/230 V ± 10% – 50/60 Hz
Consumption:	1,5 W max
Max Current:	6/8 A (RMS)
Min Load:	50 mA (RMS)
Vibration Frequency:	3000/6000 vpm (50 Hz) RC-AC
Ramp Time:	0,2 sec. / 2 sec. (adjustable)
Min Regulation:	80 V ± 30%
Max Regulation:	220 V - 30%
On/Off:	free voltage contact
Protection Degree:	IP55 in box (IP65-NEMA 4/4X)
Storage Temperature:	–15°C / +80°C
Operation Temperature:	–5°C / +55°C
European Norms:	EMC CE
Warranty:	1 year (from date on circuit)



METALLIC BOX
PV R5FCX Z2 STM
165x140x65



METALLIC BOX
PV R5FCX Z2 SM3
195x130x90



PLASTIC BOX
PV R5FCX Z2 STD
165x130x70

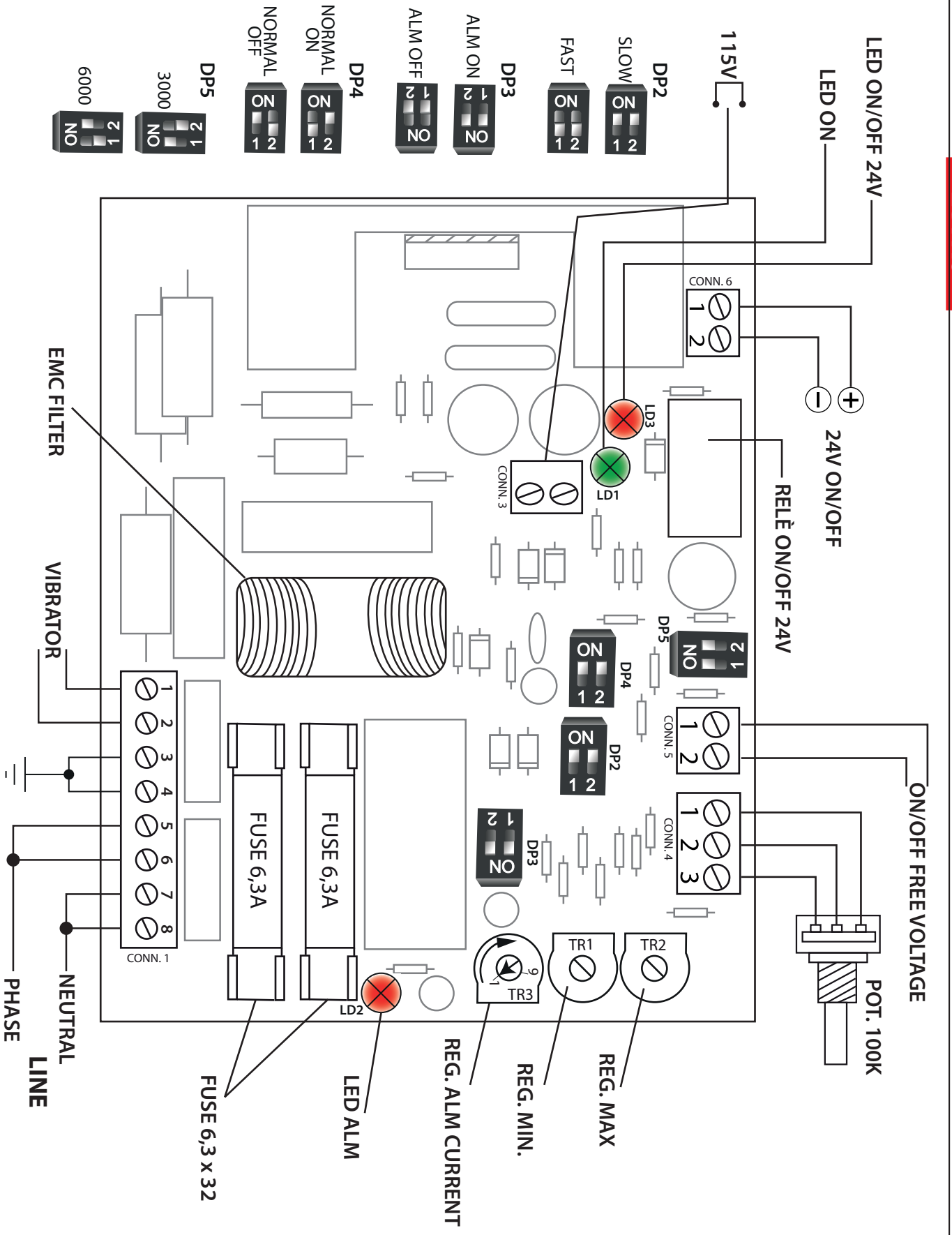


CIRCUIT
PV R5FCX A2 STD

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
R5FC	Fire-retardant plastic	RAL 7035	165 x 130 x 70	PV R5FCX Z2 STD	
R5FC+PRX92	Fire-retardant plastic	RAL 7035	165 x 130 x 70	PV R5P92 Z2 STD	
R5FC	Aluminum	GREY CLEAR	165 x 140 x 65	PV R5FCX Z2 STM	
R5FC	Aluminum	RAL 7035	195 x 130 x 90	PV R5FCX Z2 SM3	
R5FC/DIN	Circuit DIN35		145 x 130 x 50	PV R5FCX D2 STD	

SMART



MP ELETTRONICA
QUALITY VIBRATION CONTROL

Description: **CONTROL CIRCUIT R5FN STABILIZED**

CODE	REV	DATE	DRAFTSMAN	SHEET
DTR5C	02	02/24	E. PEDRAZZI	1/1

Electronic Controller for Electromagnetic Vibratory Feeders

R4FC

5A | 115V 230V | 0/10V 4/20mA

General

Stabilized, optoisolated, compact and economic controller. This controller is available in the following versions: only circuit, circuit with DIN35 support and external potentiometer, plastic or metallic box.

General Characteristics

Voltage 115V/230V, 50/60 Hz • 3000/6000 vpm • Multiple ON/OFF input with double logic • Slow/fast ramp • Reg. vibration min/max • Line input with schuko plug • Vibrator output with connector • Automatic Input 0/5V-0/10V • Led ON (green) • Led OFF (red).

Applications

Regulation of linear feeders and small bowl feeders till 5 Amps.

Options

Box IP65 (NEMA 4/4X) • INOX Box • Customized label • Double speed • Connector for vibrator • Available with PRX92-PRX99 circuits for NPN-PNP sensor.

Technical Specs

Feeding Tension:	115/230V ± 10% – 50/60 Hz
Consumption:	1 W max
Max Current - Min Load:	5 A (RMS) - 30 mA (RMS)
Automatic Input:	0/10V-0/20 mAmp
Frequency of Vibration:	3000/6000 vpm (50 Hz) RC-AC
Ramp Time:	0,1 sec. / 1 sec. (adjustable)
Min Regulation:	80 V ± 30% (230V)
Max Regulation:	220 V - 30% (230V)
On/Off:	free voltage contact/voltage signal 0/24Vcc
Protection Degree:	IP55 in box (IP65-NEMA4-4X)
Storage Temperature:	–10°C / +80°C
Operation Temperature:	–5°C / +55°C
European Norms:	EMC CE
Warranty:	1 year (from date on circuit)



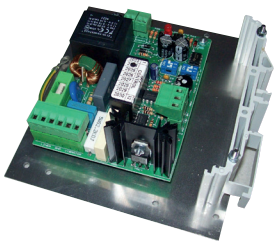
METALLIC BOX
PV R4FC Z2 STM
140x115x60



METALLIC BOX
PV R4FC Z2 SM1
150x100x80



PLASTIC BOX
PV R4FC Z2 STD
165x100x67

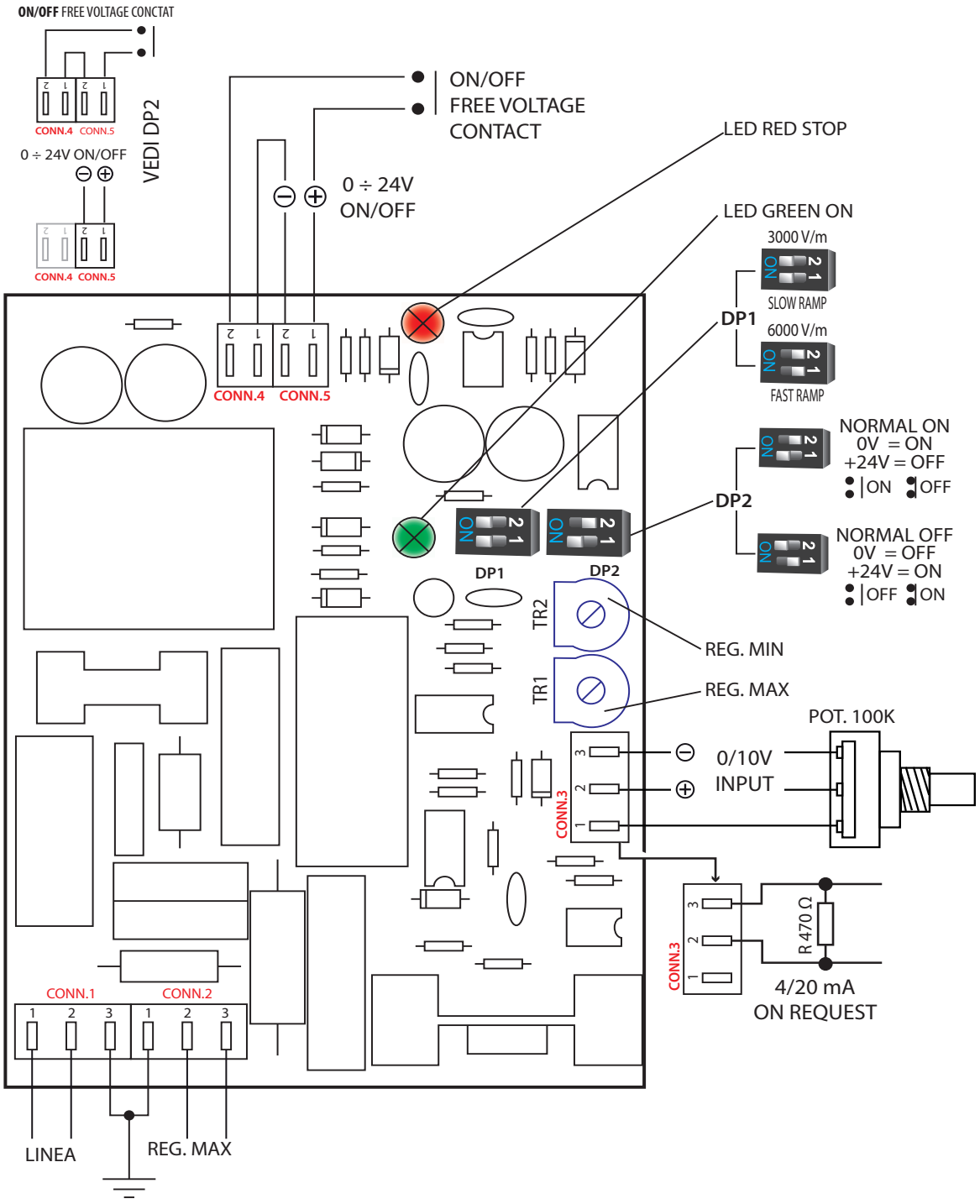


CIRCUIT DIN35
PV R4FC D2 STD

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
R4FC	Circuit		108 x 84 x 33,5	PV R4FC A2 STD	
R4FC DIN	Circuit		125 x 85 x 64,5	PV R4FC D2 STD	
R4FC	Fire-retardant plastic	RAL 7035	165 x 100 x 67	PV R4FC Z2 STD	
R4FC	Aluminum	RAL 7035	140 x 115 x 60	PV R4FC Z2 STM	
R4FC	Aluminum	RAL 7035	150 x 100 x 80	PV R4FC Z2 SM1	

SMART-ISO



ADJUSTMENT:
WITH 0V ADJUST THE MINIMUM
WITH 10V ADJUST THE MAXIMUM
THE MINIMUM IS NOT INFLUENCED THE MAXIMUM
IS INFLUENCED BY THE MINIMUM 3000 AND 6000
HAVE DIFFERENT CALIBRATION

MP ELETTRONICA
QUALITY VIBRATION CONTROL

Description: **ELECTRONIC CIRCUIT R4FC**

CODE	REV	DATE	DRAFTSMAN	SHEET
DTR4FC	00	12/16	E. PEDRAZZI	1/1

Electronic Controller for Electromagnetic Vibrator

VBS06 6A 230V IP 65

General

Stabilized professional controller, compact, economic, current till to 6,3A rms in metallic or plastic box, only circuit or circuit with support DIN35 with external potentiometer.

General Characteristics

Voltage 230V, 50/60 Hz • 3000/6000 Vib/min • Double Input ON/OFF • Slow/fast ramp • Reg. vibration min/max • Led ON • Line input with schuko plug • Vibrator output with connector.

Applications

Regulation of linear and circular vibrators till 6,3 Amps.

Options

Box IP65 (NEMA 4/4X) • INOX Box • Personalized label • Connector for vibrator • Available with circuit PRX92 or PRX99 (NPN-PNP sensor).

Technical Specs

Tension of Feeding:	230 V ± 5% – 50/60 Hz
Consumption:	1,5 W max
Current Max:	6,3A (RMS)
Load Min:	50 mA (RMS)
Frequency of Vibration:	3.000/6.000 V/min (50 Hz) RC-AC
Time of Ramp:	0,2 sec. / 2 sec. (modifiable)
Regulation Min.:	80 V ± 30%
Regulation max:	220 V -30%
On/Off:	free voltage contact/signal voltage 0/24Vcc
Degree of Protection:	IP55 in box (IP65-NEMA4-4X)
Temperature of Storage:	–15°C / +80°C
Temperature of Operation:	–5°C / +55°C
European Norms:	EMC CE
Guarantee:	1 year (from date on circuit)



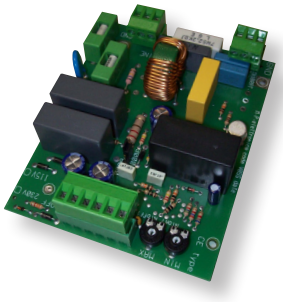
METALLIC BOX
PV VBS06 Z2 STM
165x140x65



METALLIC BOX
PV VBS06 Z2 SM3
195x130x90



PLAASTIC BOX
PV VBS06 Z2 STD
165x130x70

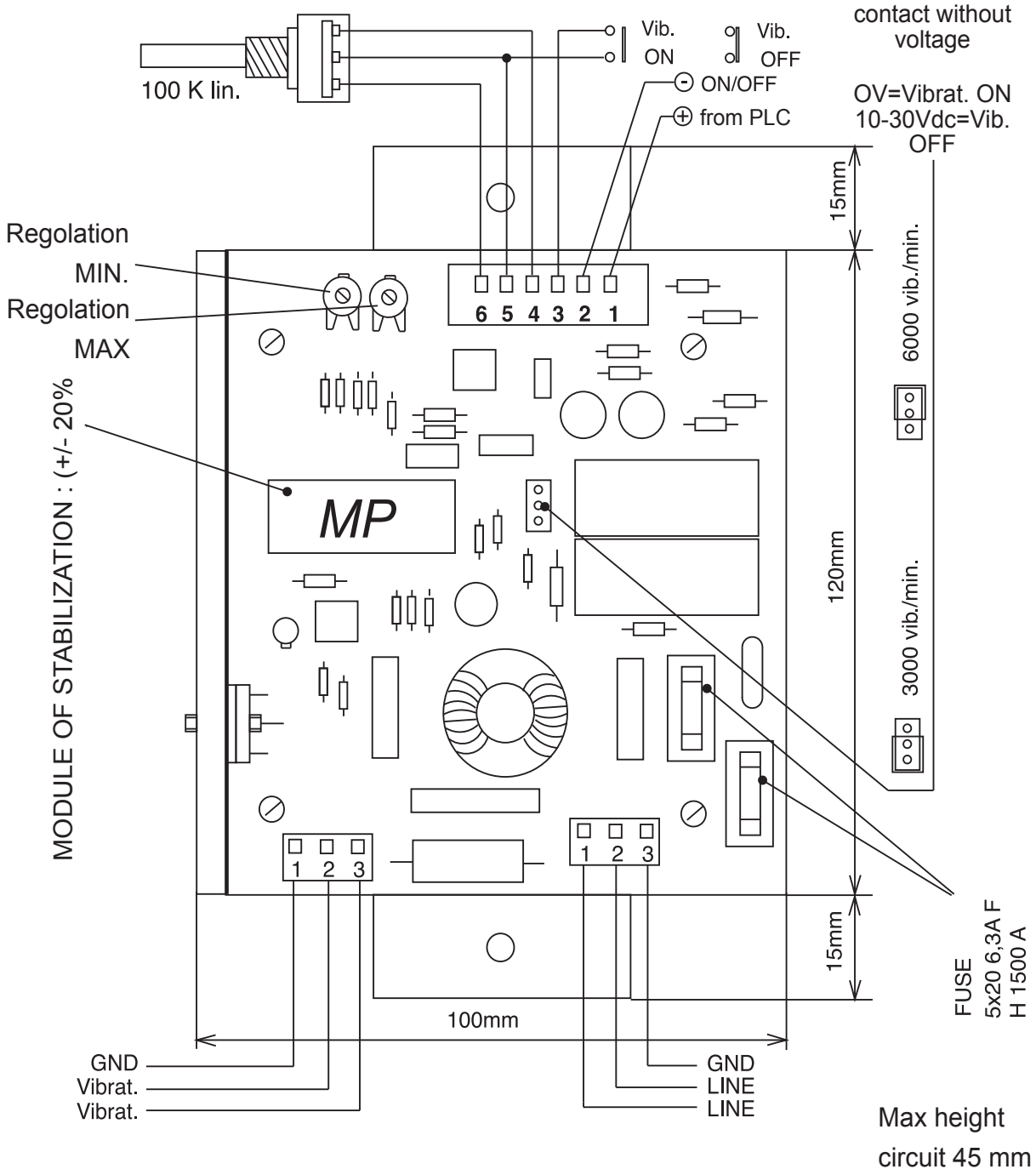


CIRCUIT
PV VBS06 A2 STD

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
VBS06	Fire-retardant plastic	RAL 7035	165 x 130 x 70	PV VBS06 Z2 STD	
VBS06	Aluminum	GREY CLEAR	165 x 140 x 65	PV VBS06 Z2 STM	
VBS06	Aluminum	RAL7035	195 x 130 x 90	PV VBS06 Z2 SM1	
VBS06/DIN35	Circuit		145 x 130 x 50	PV VBS06 D2 STD	

NOTE: optoisolated and protect PLC contact against of polarity inversion



NOTE: The electronic circuit may be supplied with code vbs06/d, also with support for assembly on the Omega DIN 35 bar.

if only the open-frame board is used (IP00) insert it and wire it in a container that could guarantee an excellent safety degree respecting the current European Norms, and isolate the terminals of the potentiometer with the little rubbers in endowment. Each responsability from a wrong use of the open-frame board is declined. Sketch and technical characteristics are subject to modification without warning.

MP ELETTRONICA
QUALITY VIBRATION CONTROL

Description: CONTROL CIRCUIT VBS06

CODE	REV	DATE	DRAFTSMAN	SHEET
DTVBS06	00	12/97	E. PEDRAZZI	1/1

Electronic Controller for Electromagnetic Vibrator

CV99

6/8A | 115V 230V | 0/10V 0/20mA

General

Stabilized professional controller, compact, economic, current till to 6/8A rms in metallic box, only circuit or circuit with support DIN35 with external potentiometer.

General Characteristics

Voltage 230V, 50/60 Hz • 3000/6000 Vib/min • Double automatic input 0/10V-0/20mA • Multiple ON/OFF input• Slow/Fast ramp • Reg. vibration min/max Manual/Automatic • Line input with schuko plug • Vibrator output with connector.

Applications

Regulation of linear and circular vibrators till 8A with automatic input (PLC) Drive linear - Bowl feeder - Hopper.

Options

Box IP65 (NEMA 4/4X) • INOX Box • Personalized label • Double speed • Connector for vibrator.

Technical Specs

Tension of Feeding:	230 V or 400 V ± 20% – 50/60 Hz
Consumption:	1,5 W max
Current Max:	6,3A (RMS)
Load Min:	50 mA (RMS)
Frequency of Vibration:	3.000/6.000 V/min (50 Hz) RC-AC
Time of Ramp:	0,1 sec. / 1 sec. (modifiable)
Regulation Min.:	80 V ± 30% (230V) 140 V ± 30% (400V)
Regulation max:	220 V - 30% (230V) 380 V - 30% (400V)
On/Off:	free voltage contact/signal voltage 0/24Vcc
Input Consumption Autom. 0/10V:	1mA max
Input Impedance 0/10V-/0/20mA:	50 Komh-50 omh
Degree of Protection:	IP55 in box (IP65-NEMA4-4X)
Temperature of Storage:	–10°C / +80°C
Temperature of Operation:	–5°C / +55°C
European Norms:	EMC CE
Guarantee:	1 year (from date on circuit)



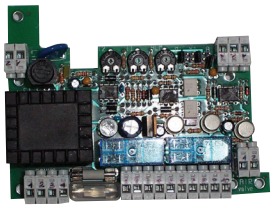
METALLIC BOX
PV CV99X Z2 SM1
200x100x80



PLASTIC BOX
PV CV99X A2 STD



CIRCUIT DIN35
PV CV99X D2 STD



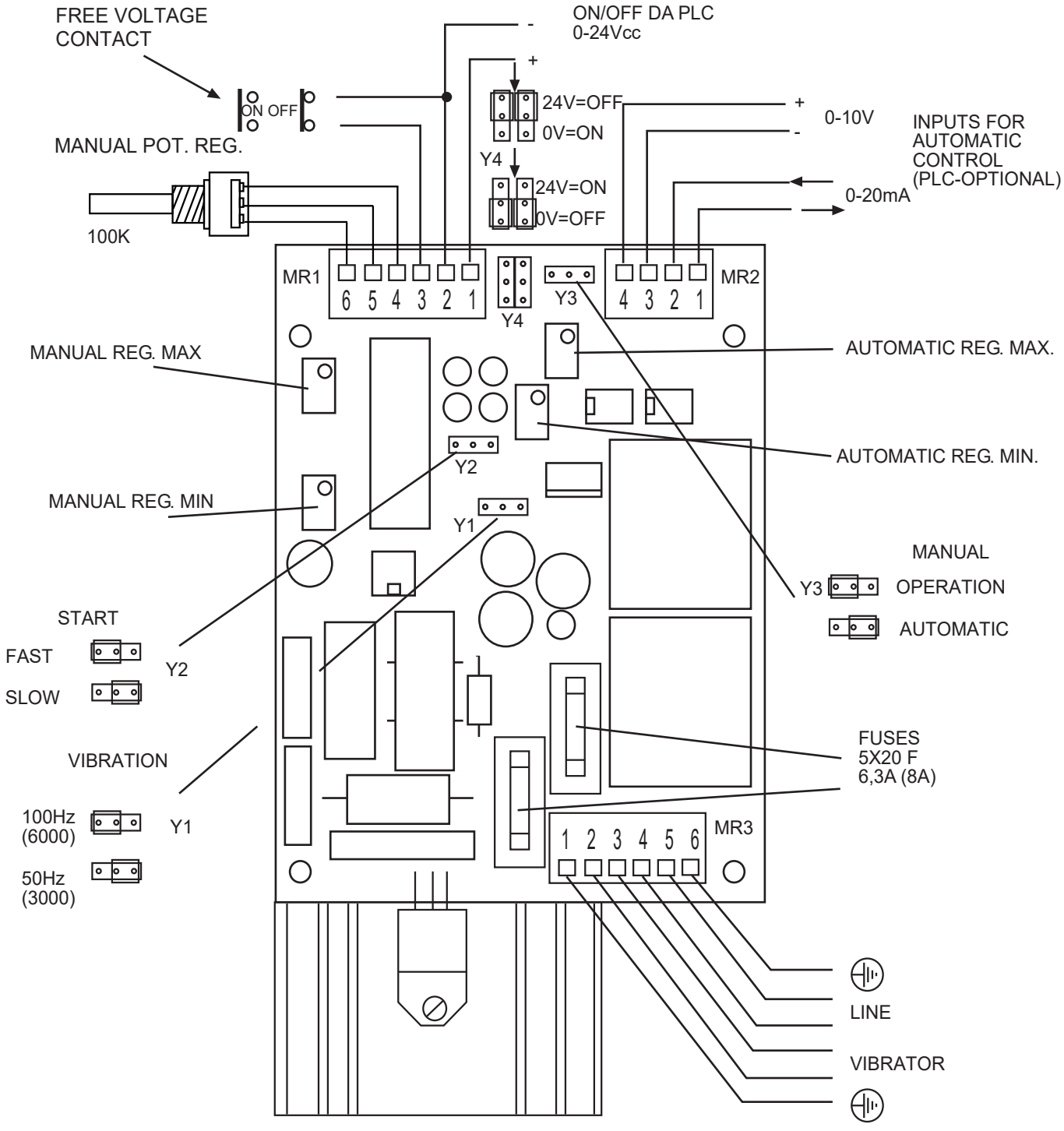
CIRCUIT PRX99
PV PRX99 A2 STD

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
CV99	Aluminum	RAL 7035	200 x 100 x 80	PV CV99X Z2 SM1	
CV99	Circuit		150 x 85 x 40	PV CV99X A2 STD	
CV99/DIN35	Circuit DIN35		150 x 85 x 40	PV CV99X D2 STD	

IMPORTANT NOTE:

If using only the open-frame board (IP00), install and wire it in an enclosure that ensures a high level of safety in compliance with current European regulations, and insulate the potentiometer terminals with the supplied rubber caps. No responsibility is assumed for improper use of the open-frame board.



DRAWINGS AND TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

MP ELETTRONICA
QUALITY VIBRATION CONTROL

Description: STABILIZED CIRCUIT CV99

CODE	REV	DATE	DESIGNED	SHEET
DTCV99	00	12/99	E. PEDRAZZI	1/1

SMART

Electronic Controller for Electromagnetic Vibratory Feeders

R3FC-ISO

4A | 110V 230V | 2 ON/OFF

General

Stabilized, optoisolated, compact and economic controller. This controller is available in the following versions: only circuit, circuit with DIN35 support and external potentiometer, plastic or metallic box.

General Characteristics

Voltage 115V/230V, 50/60 Hz • 3000/6000 vpm • Multiple ON/OFF input with double logic • Slow/Fast ramp • Reg. vibration min/max • Line input with schuko plug • Vibrator output with connector • Led green (ON).

Applications

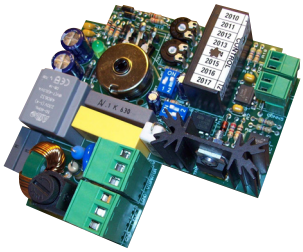
Regulation of linear and bowl feeders till 4 Amps.

Options

Box IP65 (NEMA 4/4X) • INOX Box • Customized label • Double speed • Connector for vibrator • Available with PRX92-PRX99 circuits for NPN-PNP sensor.



PLASTIC BOX
PV R3ISO Z2 STD
100x100x50



CIRCUIT
PV R3ISO A2 STD

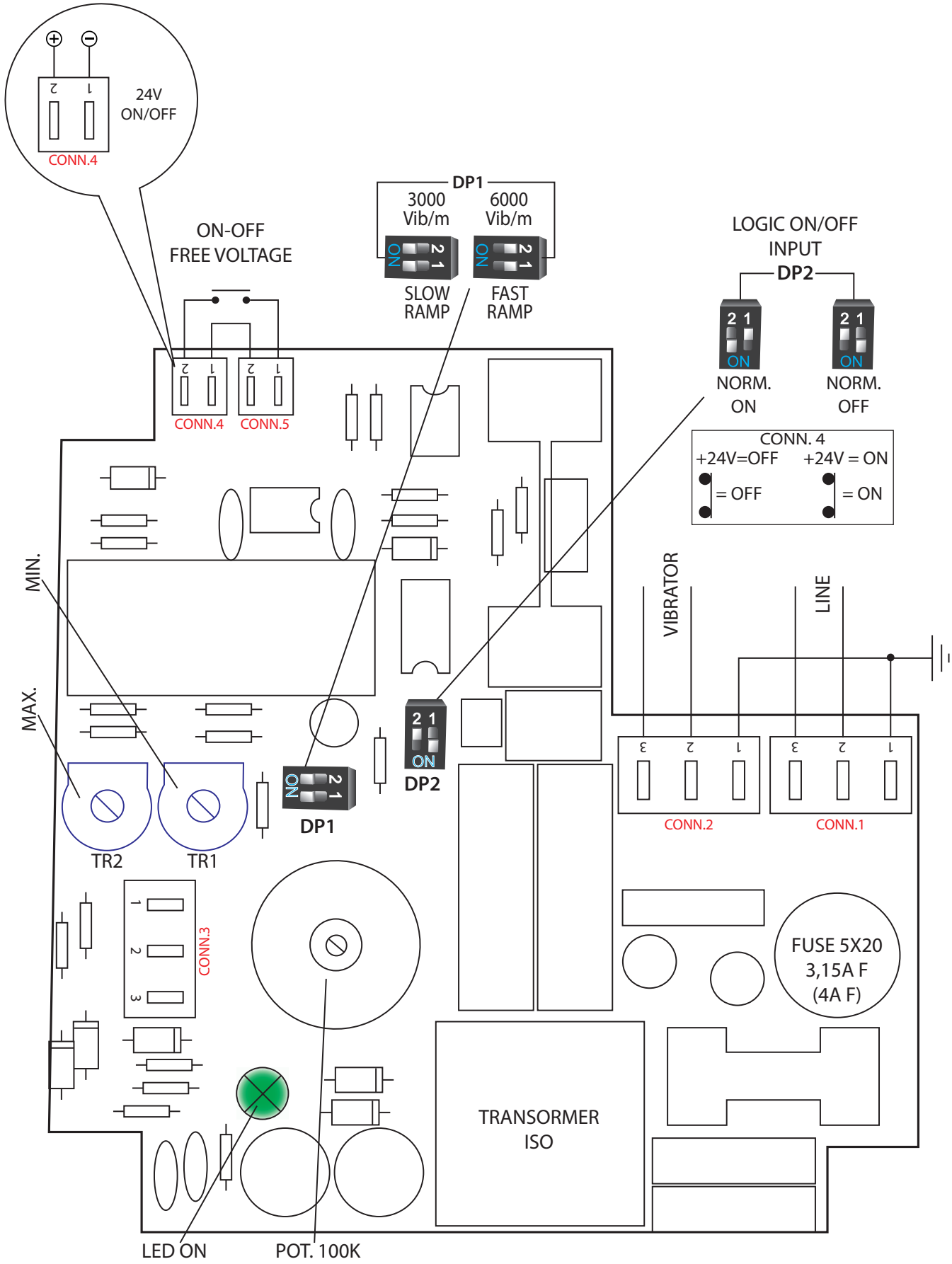
Technical Specs

Feeding Tension:	115/230 V ± 10% – 50/60 Hz
Consumption:	1,5 W max
Max Current:	4 A (RMS)
Min Load:	50 mA (RMS)
Vibration Frequency:	3000/6000 vpm (50 Hz) RC-AC
Ramp Time:	0,2 sec. / 2 sec. (adjustable)
Min Regulation:	80 V ± 30%
Max Regulation:	220 V - 30%
On/Off:	free voltage contact
Protection Degree:	IP55 in box (IP65-NEMA 4/4X)
Storage Temperature:	–15°C / +80°C
Operation Temperature:	–5°C / +55°C
European Norms:	EMC CE
Warranty:	1 year (from date on circuit)

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
R3FC-ISO	Circuit		80 x 95 x 35	PV R3ISO A2 STD	
R3FC-ISO	Fire-retardant plastic	RAL 7035	100 x 100 x 50	PV R3ISO Z2 STD	
R3FC-ISO/DIN	Circuit DIN35		115 x 185 x 50	PV R3ISO D2 STD	
R3FC-ISO+PRX92	+ circuit for sensor NPN/PNP	RAL 7035	100 x 100 x 50	PV R3ISO Z2 P92	

SMART-ISO



MP ELETTRONICA QUALITY VIBRATION CONTROL	Description: **ELECTRONIC CIRCUIT R3FC ISO**				
	CODE	**REV**	**DATE**	**DRAFTSMAN**	**SHEET**
	DTR3FCISO	00	02/14	E. PEDRAZZI	1/1

Electronic Controller for Electromagnetic Vibratory Feeders

R3FSC-ISO

5A | 115V 230V | STATUS RELÈ

General

Stabilized, optoisolated, compact and economic controller. This controller is available in the following versions: only circuit, circuit with DIN35 support and external potentiometer, plastic or metallic box.

General Characteristics

Voltage (115V) 230V, 50/60 Hz • 3000/6000 vpm • Multiple ON/OFF input with double logic • Slow/fast ramp • Reg. vibration min/max • Line input with schuko plug • Vibrator output with connector • Status Relay • Led ON (green) • Led status (red).

Applications

Regulation of linear and bowl feeder till 5 Amps.

Options

Box IP65 (NEMA 4/4X) • INOX Box • Customized label • Double speed • Connector for vibrator • Available with PRX92-PRX99 circuits for NPN-PNP sensor.

Technical Specs

Feeding Tension:	(115) 230V ± 10% – 50/60 Hz
Consumption:	1 W max
Max Current:	5A (RMS)
Min Load:	50 mA (RMS)
Vibration Frequency:	3000/6000 vpm (50 Hz) RC-AC
Ramp Time:	0,2 sec. / 2 sec. (adjustable)
Min Regulation:	80 V ± 30% (230V)
Max Regulation:	220 V - 30% (230V)
On/Off:	free voltage contact/voltage signal 0/24Vcc
Degree of Protection:	IP55 in box (IP65-NEMA 4/4X)
Temperature of Storage:	–10°C / +80°C
Temperature of Operation:	–5°C / +55°C
European Norms:	EMC CE
Guarantee:	1 year (from date on circuit)



METALLIC BOX
PV R3SIS Z2 STM
140x115x60



METALLIC BOX
PV R3SIS Z2 SM1
150x100x80



PLASTIC BOX
PV R3SIS Z2 STD
165x100x67

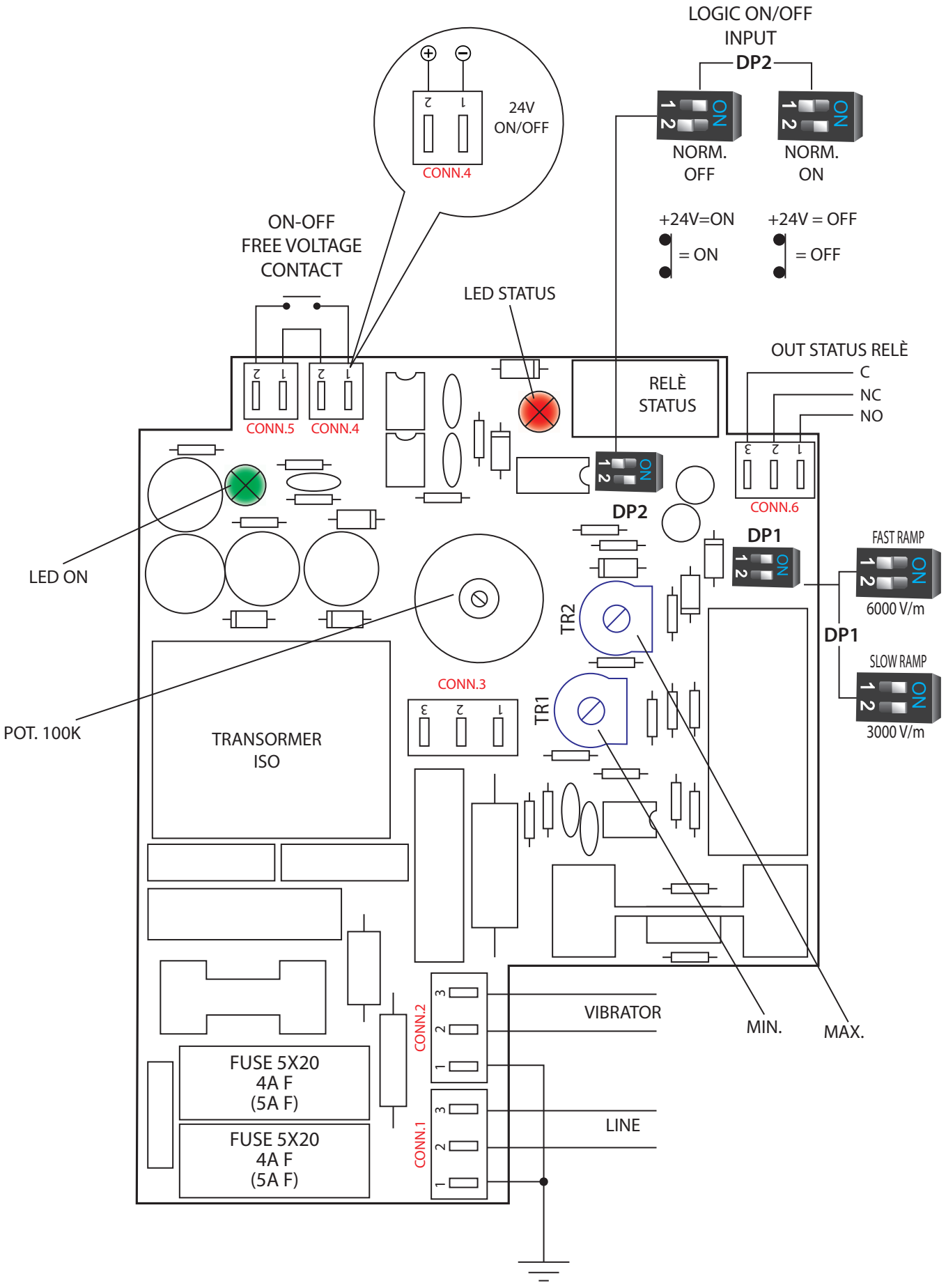


CIRCUIT
PV R3SIS A2 STD

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
R3FS-ISO	Circuit		94 x 94 x 35	PV R3SIS A2 STD	
R3FS-ISO/DIN	Circuit		115 x 185 x 50	PV R3SIS D2 STD	
R3FS-ISO	Fire-retardant plastic	RAL 7035	165 x 100 x 67	PV R3SIS Z2 STD	
R3FS-ISO	Aluminum	RAL 7035	140 x 115 x 60	PV R3SIS Z2 STM	
R3FS-ISO	Aluminum	RAL 7035	150 x 100 x 80	PV R3SIS Z2 SM1	

SMART-ISO



MP ELETTRONICA
QUALITY VIBRATION CONTROL

Description: **ELECTRONIC CIRCUIT R3FSC ISO**

CODE	REV	DATE	DRAFTSMAN	SHEET
DTR3FSCISO	00	02/14	E. PEDRAZZI	1/1

Electronic Controller for Electromagnetic Vibrator

R5FC-ISO 6/8A 115/230V 400V STATUS RELÈ

General

Stabilized controller, compact, economic, current till to 6/8A rms in metallic or plastic box, only circuit or circuit with support DIN35 with external potentiometer.

General Characteristics

Voltage 110/230V or 400V, 50/60 Hz • 3000/6000 Vib/min • Input Double ON/OFF(free contact voltage, signal voltage) • Slow/fast ramp • Reg. vibration min/max • Led ON • Line input with schuko plug • Vibrator output with connector • Status Relay (led red).

Applications

Regulation of vibrators linear and small circular vibrators till 6/8 Amps - Drive linear - Bowl feeder - Hopper - Low-High speed.

Options

Box IP65 (NEMA 4/4X) • INOX Box • Personalized label • Connector for vibrator. Available with circuit PRX92 or PRX99.

Technical Specs

Tension of Feeding:	115/230 V or 400V ± 5% – 50/60 Hz
Consumption:	1,5 W max
Current Max:	6/8A (RMS)
Load Min:	50 mA (RMS)
Frequency of Vibration:	3.000/6.000 V/min (50 Hz) RC-AC
Time of Ramp:	0,2 sec. / 2 sec. (adjustable)
Regulation Min.:	80 V ± 30%
Regulation max:	220 V - 30%
On/Off:	free voltage contact/signal voltage 0/24Vcc
Degree of Protection:	IP55 in box (IP65-NEMA4-4X)
Temperature of Storage:	–15°C / +80°C
Temperature of Operation:	–5°C / +55°C
European Norms:	EMC CE
Guarantee:	1 year (from date on circuit)



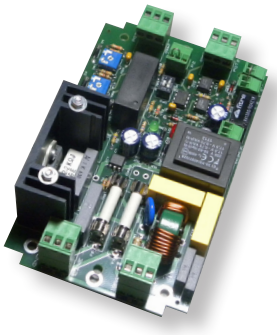
METALLIC BOX
PV R5ISO Z2 STM
165x140x65



METALLIC BOX
PV R5ISO Z2 SM3
195x130x90



PLASTIC BOX
PV R5ISO Z2 STD
165x130x70

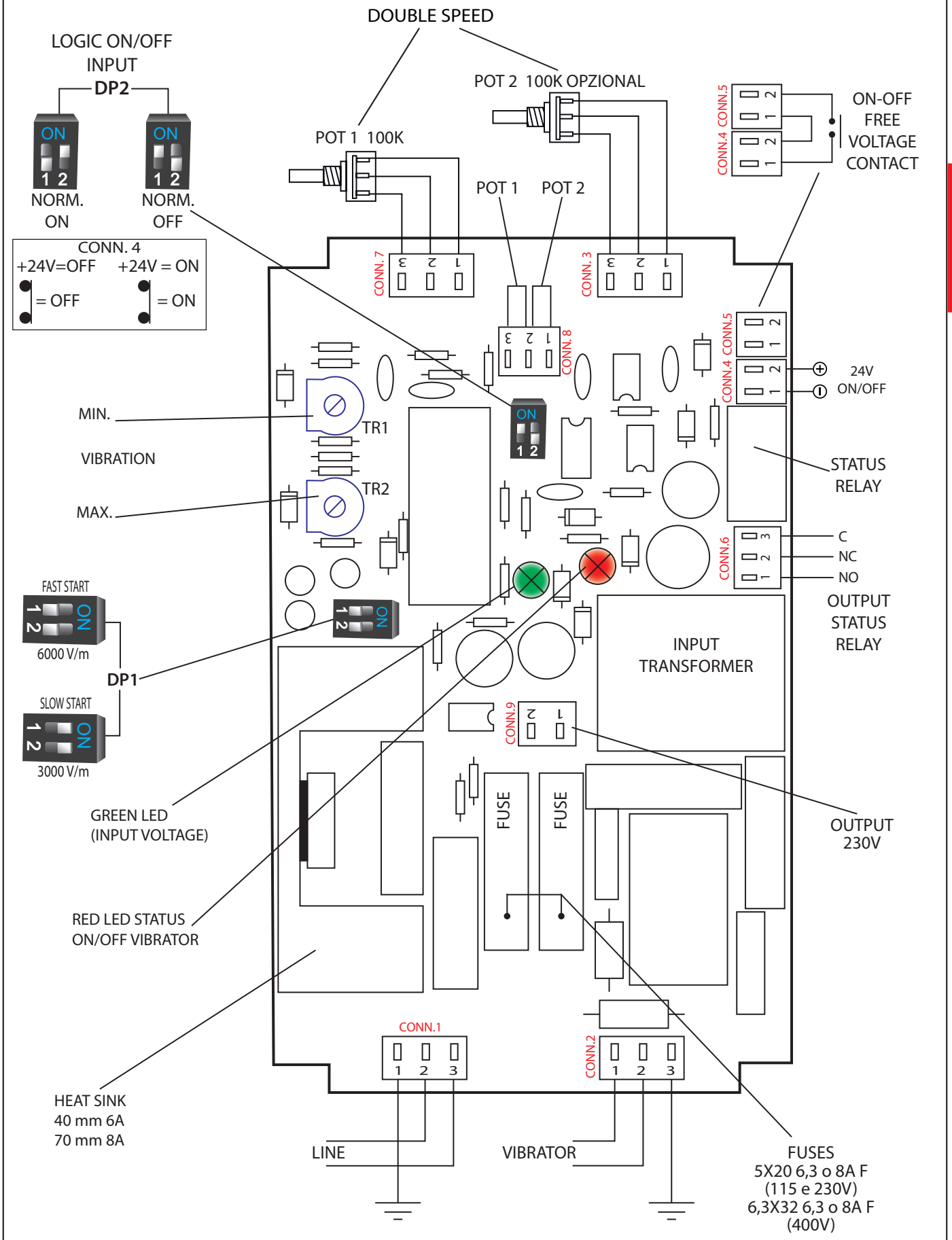


CIRCUIT
PV R5ISO A2 STD

Available Versions

Type	Box	Colour	Dimensions	Code	Price €
R5FC-ISO	Fire-retardant plastic	RAL 7035	165 x 130 x 70	PV R5ISO Z2 STD	
R5FC-ISO	Aluminum	GREY CLEAR	165 x 140 x 65	PV R5ISO Z2 STM	
R5FC-ISO	Aluminum	RAL 7035	195 x 130 x 90	PV R5ISO Z2 SM3	
R5FC/DIN-ISO	Circuit DIN35		145 x 130 x 50	PV R5ISO D2 STD	

SMART-ISO



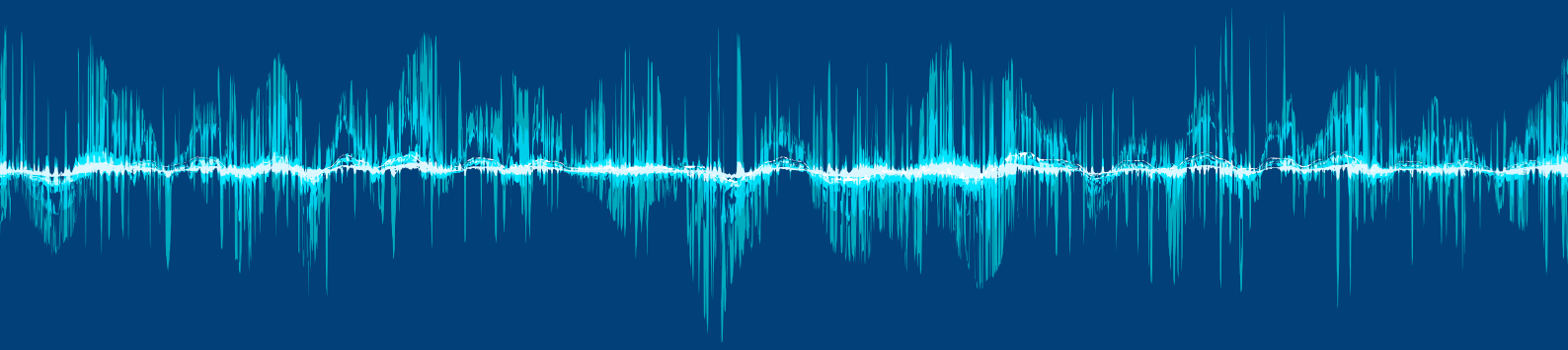
MP ELETTRONICA
QUALITY VIBRATION CONTROL

Description: **ELECTRONIC CIRCUIT R5FC ISO**

CODE	REV	DATE	DRAFTSMAN	SHEET
DTR5FCISO	00	06/14	E. PEDRAZZI	1/1

Rev. 2026-09

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MP ELETTRONICA
QUALITY VIBRATION CONTROL

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