***F** agan*

***A** pplicazioni*

***E** elettroniche*

CE

The success of your project is in the air. .

V R M M S

Fans speed controls

for monophase loads



The electronical VRMMS slave voltage regulators are designed to regulate the speed of fans, pumps and resistors proportionally and continuously. They function as a simple voltage regulator whose command signal comes from a remote control or from a potentiometer. FAE produces a version for pwm signal command and a version for 0..10V= command signal. They are the best solution for their ruggedness (IP20 covering, din-rail mounting Omega RAIL DIN/EN 50022), simple use and very low cost.

	VRMMS 8	VRMMS 12
POWER 230V	2 kVA	3 kVA
CURRENT nom. (Arms)	8 A	12 A
INPUT VOLTAGE	230V –15+10% 50/60Hz; The version for 0..10V= command signal necessitate also 24V –15+10% 50/60Hz (3W)	
OUTPUT VOLTAGE	0…98% of supply line	
COMMAND SIGNALS	pwm (impedance 150ohm) / 0..10V= , potentiometer 10kohm (impedance 10kohm)	
EMC	r.f filter inside	
INTERNAL REGULATIONS	Trimmers to regulate min. and max output voltage (optional and only for 0..10V command signal version Release R4) Dip switch with 8 positions to select the following voltage/speed out for the load: 160V-170V-180V-190V-200V-210V-220V-230V and only for 0..10V command signal version Release R5)	
PROTECTIONS	Class II at the input terminal block (4kV); surge protection;	
OPERATING TEMP.	-10°C...+50°C	
STORAGE TEMP.	-20°C...+70°C	
IP GRADE PROTECTION	metallic IP20 cover	
DIMENSIONS (mm)	90 x 120h x 85p	138 x 120h x 85p
WEIGHT (gr)	350 gr	550 gr
NORMS	Conforms to Dir. B.T.2006/95CE, Dir. EMC 89/336 – 92/31 – 93/68, conform typical configurations	

Get only the best : ask for FAE regulators

CODE TO CHOOSE THE CONTROL

Position 1 2 3 4 5 6 7

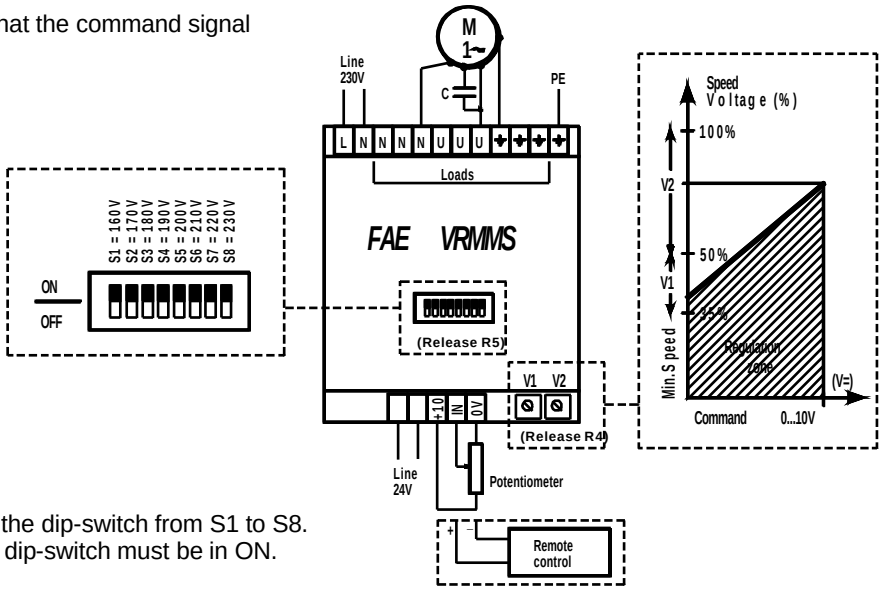
VRMMS 12 A D MT 20 R3 (example of code)

Pos. 1 :	Regulator model	VRMM = monophase regulator
Pos. 2 :	Nominal current	8 = 8A / 12 = 12A
Pos. 3 :	Power supply	A=230V~50Hz D= 265V~60Hz (also 24V~50Hz for 0..10V command version)
Pos. 4 :	Comand signal	D = pwm, V = 0..10V=
Pos. 5 :	Cover	MT = metallic
Pos. 6 :	Protection grade	20 = IP20
Pos. 7 :	Release hardware	R3 = standard release / R4 = release with vel. min./max trimmers / R5 = release with dip swich fix vel. circuit

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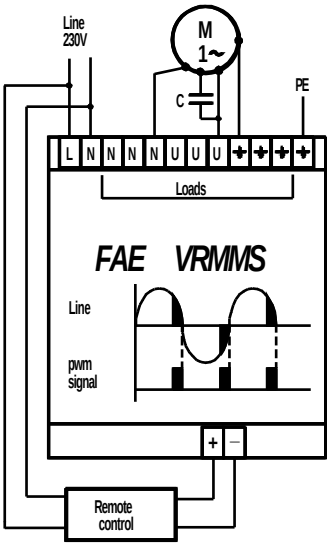
VRMMS - V Version (0..10V=) connections and settings

PAY ATTENTION: Ensure that the command signal is not connected to the 24V.



Choose the right voltage by the dip-switch from S1 to S8.
PAY ATTENTION: only one dip-switch must be in ON.

VRMMS - D Version (pwm) connections and settings



Supply for VRMMS and remote control must be on phase

NOTA per solo comando pwm

Le alimentazioni dell'unità di controllo esterna e della scheda VRMMS devono essere in fase. Nel caso che l'alimentazione del controllo sia derivata da un trasformatore, assicurarsi che il primario del trasformatore sia allacciato in parallelo all'alimentazione L-N del regolatore VRMMS.

NOTE for pwm version command

Power supply for remote control and VRMMS control must be on phase.
If remote control power supply come from a transformer, check that its primary circuit is connected with L-N regulator VRMMS power supply.

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