

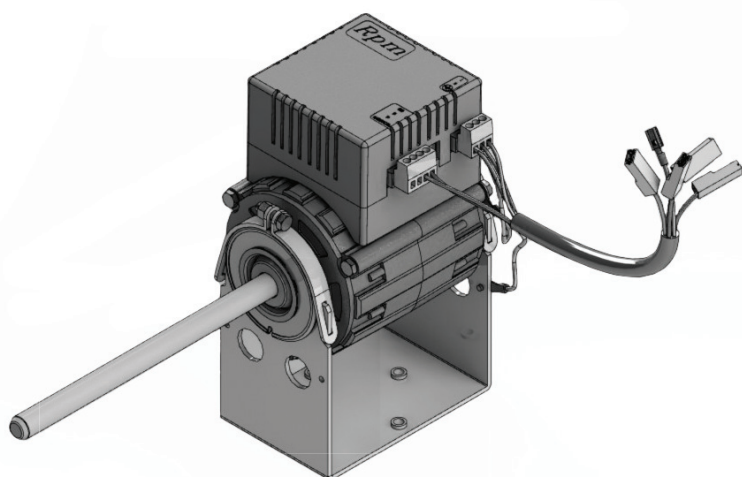


# SUPPLEMENTARY SHEET

## BLDC fan coil units

English language: Original Instructions  
All other language: Translation of the Original Instruction

### BLDC



BRUSHLESS MOTOR  
Supplementary sheet

English

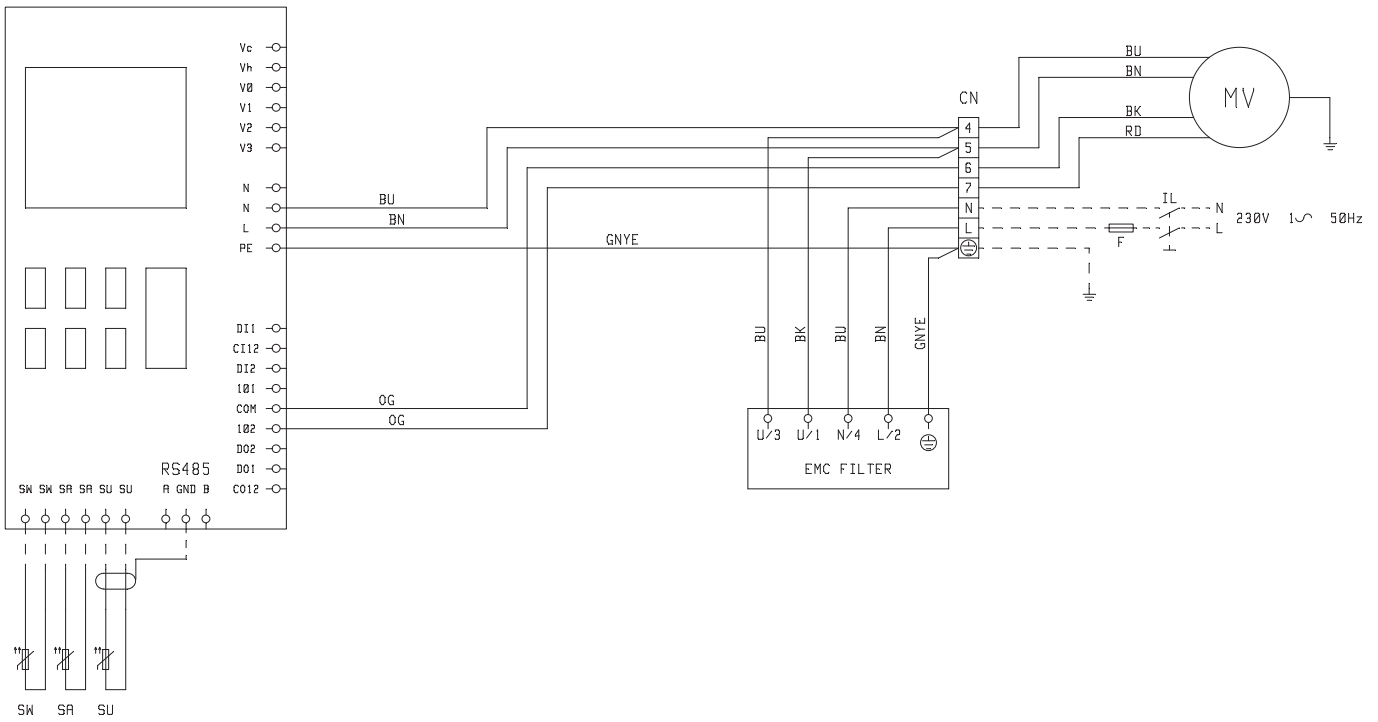
Deutsch

Français

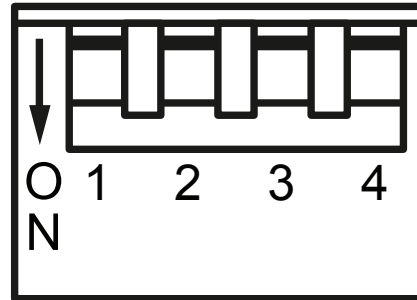
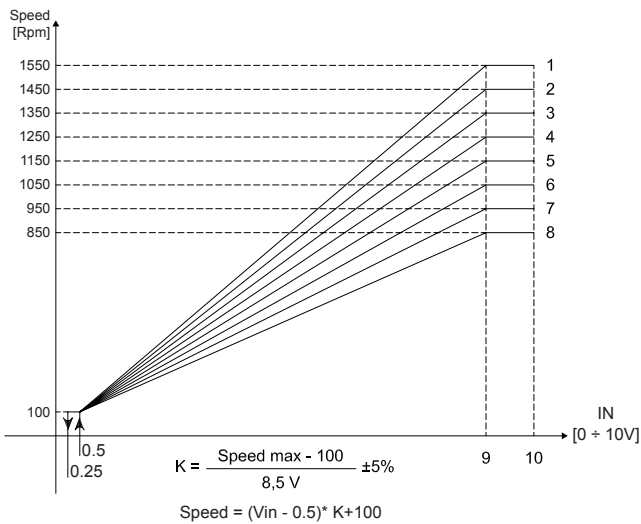
Español

MOTORE BRUSHLESS  
Scheda integrativa

Italiano



1



2

3

Alarm types	LED indications	Alarm indications DIP4=OFF	Actions	Notes
Over temperature	Blink alarm LED 3s ON 0,5s OFF	Blink alarm output 3s ON 0,5s OFF	Motor OFF	Autoreset alarm. After about 1,5 min of persistence condition the alarm is set permanently: LED ON, Alarm ON and system is in STOP mode
Over voltage				
Under voltage				
Over current				
Over load	Blink alarm LED 0,5s ON 0,5s OFF	Blink alarm output 0,5s ON 0,5s OFF	Speed reduction	Power limiting
Safety control			Temperature limiting	
Stop	Alarm LED ON permanently	Alarm LED ON permanently	Motor OFF	Set 0V ON input to reset the alarms

4

## SCHEMI ELETTRICI DI COLLEGAMENTO FWEC3

Comando a microprocessore per installazione a parete

## LEGENDA DEI SIMBOLI DEGLI SCHEMI ELETTRICI (FIGURA 1)

<b>Vo</b>	Velocità Superminima
<b>V1</b>	Velocità Minima
<b>V2</b>	Velocità Media
<b>V3</b>	Velocità Massima
<b>L</b>	Fase
<b>PE</b>	Terra
<b>N</b>	Neutro
<b>RE</b>	Resistenza Elettrica
<b>SW</b>	Sonda Acqua
<b>SA</b>	Sonda Aria
<b>SU</b>	Sonda Umidità
<b>DI1</b>	Ingresso digitale 1
<b>DI2</b>	Ingresso digitale 2
<b>CI12</b>	Comune ingressi digitali
<b>A/B/GND</b>	RS 485
<b>F</b>	Fusibile (non fornito)
<b>IL</b>	Interruttore di linea (non fornito)
<b>VC</b>	Valvola solenoide Raffreddamento
<b>VH</b>	Valvola solenoide Riscaldamento
<b>.....</b>	Collegamenti elettrici a cura dell'installatore
<b>101</b>	Uscita 0-10V 1
<b>COM</b>	Comune uscite 0-10V
<b>102</b>	Uscita 0-10V 2
<b>DO2</b>	Uscita digitale 2
<b>DO1</b>	Uscita digitale 1
<b>CO12</b>	Comune uscite digitali

Per ogni ventilconvettore prevedere sulla rete di alimentazione un interruttore (IL) con contatti di apertura con distanza di almeno 3mm e un fusibile (F) di protezione adeguato.



Collegare al massimo 20 terminali BLDC ad un unico interruttore differenziale.

## CARATTERISTICHE DI REGOLAZIONE DELL'INVERTER (FIGURA 2)

Il settaggio della curva richiesta può essere effettuato in fabbrica (e modificato in cantiere se necessario) mediante impostazione dei dip switch.

## TABELLA DI SELEZIONE DELLE RAMPE DI VELOCITÀ (FIGURA 3)

N°	Velocità MAX	DIP 1	DIP 2	DIP 3	DIP 4
1	1550 rpm	OFF	OFF	OFF	-
2	1450 rpm	ON	OFF	OFF	-
3	1350 rpm	OFF	ON	OFF	-
4	1250 rpm	ON	ON	OFF	-
5	1150 rpm	OFF	OFF	ON	-
6	1050 rpm	ON	OFF	ON	-
7	950 rpm	OFF	ON	ON	-
8	850 rpm	ON	ON	ON	-

La velocità massima (1550 rpm) non viene utilizzata.

## ALLARMI (FIGURA 4)

## WIRING DIAGRAMS FWEC3

Wall-mounted microprocessor control

## KEY TO SYMBOLS USED IN WIRING DIAGRAMS (FIGURE 1)

<b>Vo</b>	Extra-low speed
<b>V1</b>	Minimum speed
<b>V2</b>	Medium speed
<b>V3</b>	Maximum speed
<b>L</b>	Phase
<b>PE</b>	Ground
<b>N</b>	Neutral
<b>RE</b>	Heating element
<b>SW</b>	Water sensor
<b>SA</b>	Air sensor
<b>SU</b>	Humidity Probe
<b>DI1</b>	Digital 1 input
<b>DI2</b>	Digital 2 input
<b>CI12</b>	Digital input common
<b>A/B/GND</b>	RS 485
<b>F</b>	Fuse (not supplied)
<b>IL</b>	Circuit breaker (not supplied)
<b>VC</b>	Solenoid valve - Cooling
<b>VH</b>	Solenoid valve - Heating
<b>.....</b>	Electrical connections to be made by installer
<b>101</b>	0-10V 1 Output
<b>COM</b>	0-10V Output Common
<b>102</b>	0-10V 2 Output
<b>DO2</b>	Digital 2 output
<b>DO1</b>	Digital 1 output
<b>CO12</b>	Digital output Common

Each fan-coil requires a switch (IL) on the feeder line with a distance of at least 3 mm between the opening contacts, and a suitable safety fuse (F).



Connect up to 20 BLDC terminals to a single differential circuit breaker.

## INVERTER CHARACTERISTICS OF REGULATION (FIGURE 2)

The full speed curve setting can be factory made (modified on site if necessary) by using the dip switches on the main board.

## FULL SPEED SELECTION TABLE (FIGURE 3)

N°	MAX speed	DIP 1	DIP 2	DIP 3	DIP 4
1	1550 rpm	OFF	OFF	OFF	-
2	1450 rpm	ON	OFF	OFF	-
3	1350 rpm	OFF	ON	OFF	-
4	1250 rpm	ON	ON	OFF	-
5	1150 rpm	OFF	OFF	ON	-
6	1050 rpm	ON	OFF	ON	-
7	950 rpm	OFF	ON	ON	-
8	850 rpm	ON	ON	ON	-

Max speed (1550 rpm) is not used.

## ALARMS (FIGURE 4)

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