

# VSD1 to



## Electronic variable speed drive for AC motors

Characteristics:

- Converters for speed and frequency variation of axial and centrifugal fans with asynchronous three-phase motors.
- Converter power supply:
  - Single-phase (VSD1/A-RFM): 200-240V 50/60 Hz.
  - Three-phase (VSD3/A-RFT): 380-480V 50/60 Hz.
- In accordance with the Electromagnetic Compatibility Directive 2014/30/EU, the Low Voltage Directive 2014/35/EU and the Machinery Safety Directive 2006/42/EC.
- According to norms:
  - UNE EN 61800-3: variable speed electric power drives. EMC related product standard including specific test methods.
  - UNE EN 61800-5-1: variable speed electric power drives. Security requirements. Electrical, thermal and energy.
  - UNE EN 60204-1: safety of machines. Electrical equipment of machines. General requirements.
  - UNE EN 55011: limits and methods for measuring the characteristics related to radio electric disturbances of industrial, scientific and medical devices (ICM) that produce radio frequency energy.
  - IEC 60529: specifications for degrees of protection in enclose premises.
- Stop/start input to disable/enable the drive.
- 0-10V input for speed control.
- ModBus RTU bus connection available.
- Standard model with degree of protection IP20. Also available in IP66 version up to 10 CV. For powers greater than 15 CV, only available with protection degree IP55.

### VSD1/A-RFM

Model		VSD1/A-RFM-0,5	VSD1/A-RFM-1	VSD1/A-RFM-2	VSD1/A-RFM-3
Power	(HP)	0.50	1.00	2.00	3.00
Power	(kW)	0.37	0.75	1.50	2.20
Maximum Current	(A)	2.3	4.3	7.0	10.5
<b>Input</b>					
Input type		Single-phase	Single-phase	Single-phase	Single-phase
Voltage	(V)	200-240 V	200-240 V	200-240 V	200-240 V
Frequency	(Hz)	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
<b>Output</b>					
Output type		Three-phase	Three-phase	Three-phase	Three-phase
Voltage	(V)	200-240 V	200-240 V	200-240 V	200-240 V
Frequency	(Hz)	0-500 Hz	0-500 Hz	0-500 Hz	0-500 Hz
<b>Degrees of protection</b>		Standard: IP20. On request: IP66.			
<b>Cooling</b>		IP20: Forced. IP66: Natural			

### VSD3/A-RFT

Model	VSD3/A-RFT-1	VSD3/A-RFT-2	VSD3/A-RFT-3	VSD3/A-RFT-5.5	VSD3/A-RFT-7.5	VSD3/A-RFT-10	VSD3/A-RFT-15	VSD3/A-RFT-20	VSD3/A-RFT-25	VSD3/A-RFT-30	
Power	1.00	2.00	3.00	5.50	7.50	10.00	15.00	20.00	25.00	30.00	
Power	0.75	1.50	2.20	4.00	5.50	7.50	11.00	15.00	18.50	22.00	
Maximum Current(A)	2.2	4.1	5.8	9.5	14.0	18.0	24.0	30.0	39.0	46.0	
<b>Input</b>											
Input type	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	
Voltage	(V)	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	
Frequency	(Hz)	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	
<b>Output</b>											
Output type	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	Three-phase	
Voltage	(V)	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	380-480 V	
Frequency	(Hz)	0-500 Hz	0-500 Hz	0-500 Hz	0-500 Hz	0-500 Hz	0-500 Hz	0-500 Hz	0-500 Hz	0-500 Hz	
<b>Degrees of protection</b>		Standard: IP20. On request: IP66					IP20	IP20	IP20	IP20	IP20
<b>Cooling</b>		IP20 and IP55: Forced. IP66: Natural									