

VariFlex2 RVDF Series

Variable frequency AC Drives

- 0.20 to 2.2kW
- 0.25 to 3.0Hp



VariFlex² - RVDF Series

The VariFlex² is a simple, smart and compact AC variable speed drive for use with 3-phase AC induction motors. The drives have small dimensions and can be installed side by side for saving space. The range of product can be supplied with all the voltage input from the single phase / 110VAC up to the three phase / 480VAC. The VariFlex² employs state of the art microprocessor technology which controls all drive functions. All printed circuit boards are manufactured using surface mount technology ensuring high quality and reliability.



**Space
Optimization**



**Simplified
Set-Up**



**Cost
Saving**



Market Applications Conveyors

Ease of setting makes VariFlex² versatile for a long list of conveyor applications.

Locations: Transportation of bottles in bottling plants, Letter or package sorting in postal services, Cement powder conveyors in construction.

Fans and HVAC

- Single fan and Multi fan for basic duty assist.
- Heat ventilation
- Air conditioning
- Greenhouse/room
- Compressor/Freezing.

Packaging

Development of turnkey automation packaging and moulding machinery systems.

Main Features

- AC variable speed drive for use with AC induction motors
- V/F mode, high starting torque, variable torque applications
- Input voltage range:
1-ph 110VAC, 1-ph 230VAC, 3-ph 230VAC and 3-ph 480VAC
- 2 physical frame sizes
- Parameters Setting by buttons
- Built-in 12VDC for external application
- Full motor terminals protection
- DIN rail or panel mounting.
- Breaking transistor built-in (only for RVDFB series)
- IP20 and IP65 protection degree

Conformity

All VariFlex² are approved according to the related European and North American safety standard. Conforms to EMI radio standard and EMS immunity standard EN 61800-3 for industrial sites. Class A Built-in filter for models with "F" option.



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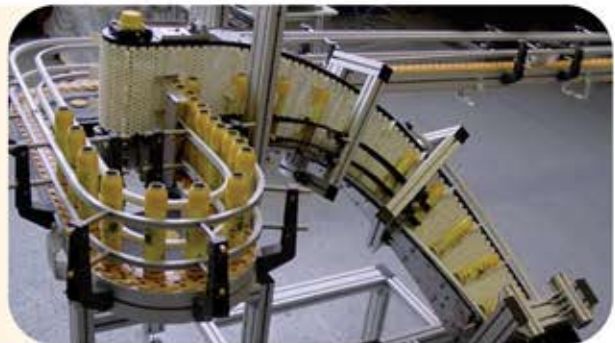


Fans and HVAC

- Single fan and Multi fan for basic duty assist
- Heat ventilation
- Air conditioning
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Packaging

Development of turnkey automation packaging and moulding machinery systems.



General purpose

Provides a powerful solution for most motor applications:

- Automated Bottling Plants
- Lab Coagulation Line
- Air Bag Sealer
- Gas-Fire Boiler
- Paint Mixer
- Tube Straightner
- Car Wash
- Plastic Film Winder
- Winding - Drawing
- Food Mixers
- Olive Pitting
- Milling machine
- String - Synthetic for Tennis Racquets
- Top Rollers for Glass Float Rollers





RVDF IP65 models



RVDF IP20 models

General Characteristics

- Mounting type: Screw mounting and DIN rail
- Integrated cooling fan: Yes
- Control mode: V/F Control (6 patterns)
- Frequency range: 0~200Hz
- Carrier frequency: 4~16Hz (factory setting 10KHz, 10KHz or more Derating)

Environmental Data

- Operating temperature: -10°C to +40°C (+50°C without sticker) (+14°F to +104°F / +122°F)
- Storage temperature: -20°C to +50°C (-4°F to +122°F)
- Degree of Protection: IP20 / IP65

Protection and Other Functions

- Over current: Inverter rated current 150% for 1min
- Over voltage: 110-230V class: DC voltage > 410V
460V class: DC voltage > 800V
- Under voltage: 110-230V class: DC voltage < 200V
460V class: DC voltage < 400V
- Instantaneous power loss restart: Set to enable or disable
- Stall prevention: ACC/DEC/Operation stall prevention
- Output terminal short circuit: Electronic circuit protection
- Other function: Grounding error, fault reset limit, directly start at power-on, over current, over voltage and low voltage control, momentary power loss and restart, short-circuit protection for output/grounding fault, reverse restriction



IP20 Models

Front View



72/2.83"

Side View



132/5.12"

Bottom View



118/4.65"

Front View



118/4.65"

Side View



140/5.51"

Bottom View



171/6.73"

Technical Specifications

Voltage Rating	AC Supply Phase	Frame Size		Nominal Motor Power		Rated Output Current A	Rated Capacity kVA	Output Voltage and Frequency	Max. momentary Power Loss Time	Weight Kg/lb
		Size 1	Size 2	HP	kW					
100 - 120VAC (+10% ÷ -15%)	1-Phase	RVDA110020	-	0.25	0.20	1.4	0.53	3-phase 0 ÷ 240V, 0 ÷ 200Hz	2.00	0.76/1.67
		RVDA110040	-	0.50	0.40	2.3	0.88			0.77/1.70
		RVDA110075	-	1.00	0.75	4.2	1.60			0.84/1.85
200 - 240VAC (+10% ÷ -15%)	1-Phase	RVDA120020F	-	0.25	0.20	1.4	0.53			0.86/1.90
		RVDA120040F	-	0.50	0.40	2.3	0.88			0.87/1.92
		RVDA120075F	-	1.00	0.75	4.2	1.60			0.91/2.00
		-	RVDFB120150F(*)	2.00	1.50	7.5	2.90			2.1/4.63
		-	RVDFB120220F(*)	3.00	2.20	10.5	4.00			2.2/4.85
380 - 480VAC (+10% ÷ -15%)	3-Phase	-	RVDFB340075F	1.00	0.75	2.3	1.70	3-phase 0 ÷ 480V, 0 ÷ 200Hz	2.00	1.6/3.53
		-	RVDFB340150F	2.00	1.50	3.8	2.90			1.62/3.55
		-	RVDFB340220F	3.00	2.20	5.2	4.00			1.68/3.70

IP65 Models with Power switch, Forward/Reverse switch and Potentiometer

Front View



133.57/5.26"

Side View



204.82/8.06"

Bottom View



133/5.24"

Front View



232/9.13"

Side View



295/11.61"

Bottom View



232/9.13"

Technical Specifications

Voltage Rating	AC Supply Phase	Frame Size		Nominal Motor Power		Rated Output Current A	Rated Capacity kVA	Output Voltage and Frequency	Max. momentary Power Loss Time	Weight Kg/lb
		Size 1	Size 2	HP	kW					
200 - 240VAC (+10% ÷ -15%)	1-Phase	RVDA120020FES	-	0.25	0.20	1.4	0.53	3-phase 0 ÷ 240V, 0 ÷ 200Hz	2.00	3.4/7.50
		RVDA120040FES	-	0.50	0.40	2.3	0.88			3.4/7.50
		RVDA120075FES	-	1.00	0.75	4.2	1.60			3.4/7.50
		-	RVDFB120150FES(*)	2.00	1.50	7.5	2.90			6.1/13.45
		-	RVDFB120220FES(*)	3.00	2.20	10.5	4.00			6.2/13.67
380 - 480VAC (+10% ÷ -15%)	3-Phase	-	RVDFB340075FES	1.00	0.75	2.3	1.70	3-phase 0 ÷ 480V, 0 ÷ 200Hz	2.00	5.8/12.79
		-	RVDFB340150FES	2.00	1.50	3.8	2.90			6.0/13.23
		-	RVDFB340220FES	3.00	2.20	5.2	4.00			6.1/13.45

(*) Works both with 3 and single phase

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