

Integrated Variable Speed Drive (IVSD)

**CAST IRON-ALUMINIUM
CASING**



The new series of electric motors with integrated inverter (IVSD) is suitable for any type of industrial application where a speed variation is required.

The combination of motor and inverter ensures a very easy start procedure and reduces the volume and the complexity of the electrical boards. Furthermore, this type of solution ensures an optimized combination of motor and inverter.

The axis heights available range from 71 to 100 with powers from 0,25 to 2,2 kW, respectively. Degree of protection IP55.

This motor is available in the self-ventilated and servo-ventilated version, and both can be equipped with encoder. The complete range of parameters and the very compact size make it possible to solve many application problems.

Compliance with EMI Standards is guaranteed with no additional costs for external filters. For basic IVSD applications the motor can be used as supplied, with no need to set any parameter; for more complex or specific applications it is possible to vary the parameters on the keyboard.

The remote control RC allows to control up to 15 inverters connected on the same RS485 bus. Any of these inverters can be selected individually. The motors of the series IVSD are suitable for a variable speed control for pumps or ventilators as well as for constant torque drives without any particular dynamic requirement.

Applications

- Air conditioning and ventilation units
- Waterworks
- Compressor, extruders, centrifugal machines, stirrers
- Conveyors, screw conveyors
- Packing machines, textile machines

Optional:

- RC programmer
- Key for parameter programming
- Digital indicator (moto-potentiometer and programming for ACM-D2/S2)
- Brake resistance RB75 (internal mounting possible)



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TECHNICAL FEATURES IVSD			
Input	Supply voltage	V	3 x 380...460V, (-15% +10%)
	Supply frequency	Hz	40...70 Hz
Motor output	Rated power	kW	0.18 ÷ 2.2
	Overload capacity	%	200% per 180 s (±15%)
	Output voltage	V	3 x 0...Uing.
	Output frequency	Hz	0...99
	Operation mode		4 quadrants (with brake chopper)
Controls	Control system		PWM
	Speed reference		0...10V dc external potentiometer (4K7) RS485
	Frequency resolution		8 Bit su Fmax
	Acceleration/deceleration ramp	sec	Separate setting; 0.1 – 1000 sec.
	Max frequency	Hz	0...99 Hz
	Min. frequency	Hz	0...Fmax
	DC brake		Standard
	Brake chopper		Option
Protections	Undervoltage	V	280V ac / 395V dc
	Overvoltage	V	537V ac / 760V dc
	Short circuit		Electronical
	Overload		Electronical
	Overtemperature		Integrated temperature sensor
Ambient conditions	Service temperature	°C	da -5°C a 45°C
	Storage temperature		da -20°C a 60°C
	Humidity	%	<90% RH (without condensate)
	Protection degree		IP55

