

Eekels Frequency converters EVE 400/009M through 024M (5,5 through 22 kW)



model: 009M/012M



model: 016M through 024M

Characteristics of the EVE frequency converters:

- Reliable
- High starting torque
- Quick response time (1ms)
- High efficiency-level of the drive
- Frequency range 0,01 up to 200,00 Hz
- Programmable in- and outputs
- Integrated setpoint PID
- Optional fieldbus interface (Profibus-DP etc.)
- Parametering possibility via Modbus
- Common DC-bus
- Universal control system
- According EnergieNed directive
- Motor sound switching behaviour
- Suitable for wall and cabinet mounting
- Dynamic control
- Attractive price performance ratio

EVE frequency converters are equipped with the most modern techniques.

Functionality of the converters is based on more than 25 years of experience in design, production and applying frequency controlled drives.

Each converter is equipped with a control system that converts a standard squirrel cage motor into a perfect adjustable drive.

Eekels, as the manufacturer of the frequency converters, can add hard and software modules to customise the drive.

The standard frequency converter supports many applications, such as: paper industry, cranes, spin dryers, fans etc.

Besides products and systems Eekels also implements Turn Key drive projects.



Product range drive technology:

- Frequency converters up to 1,2 MW/690V/12P
- Bi-directional supply units and choppers
- SR-speed control (0,01%)
- Soft starters
- Motors



Technical specifications

EVE400/ . . .	009M		012M		016M		020M		024M	
duty class	II	I	II	I	II	I	II	I	II	I
max. motoroutput	5,5 kW	7,5 kW	7,5 kW	11 kW	11 kW	15 kW	15 kW	18,5 kW	18,5 kW	22 kW
max. output current	13,6 A	18,4 A	17 A	23 A	24 A	30 A	30 A	39 A	36 A	45 A
overload (60s)	150 %	110 %	150 %	110 %	150 %	115 %	150 %	115 %	150 %	110 %
manufacturer	EEKELS ELEKTROTECHNIEK B.V.									
input line voltage	3 x 400V +10 - 15%									
input line frequency	50 Hz									
line current	10 A	16 A	16 A	21 A	21 A	27 A	27 A	35 A	35 A	41 A
cos phi	ca. 0,96									
max. line fuse	25 A gR		32 A gR		50 A gR		50 A gR		80 A gR	
output line voltage	3 x 0-400V									
frequency range	0-100,00Hz / 0-200,00Hz									
efficiency	higher than 97%									
max. power loss	0,15kW	0,2kW	0,2 kW	0,3 kW	0,3 kW	0,4 kW	0,4 kW	0,5 kW	0,5 kW	0,6 kW
cabinet air flow [m3/h]	30	40	40	60	60	80	80	100	100	120
max. ambient temp.	40°C (up to 50°C with reduction)									
degree of protection	IP-20 (up to IP-55 on request)									
max. length motor cable	100 m (> 100m optional)									
communication	MODBUS-RTU RS 232 (optional: RS485, fieldbus interface)									
interference protection	IEC 61800-3 (EN 55011 class A with optional accommodated RFI filter)									
line disturbance	According Energiedirective with external 3-phase line choke									
mass	15 kg		15 kg		23 kg		23 kg		31 kg	
19" height	6 HE		6 HE		6 HE		6 HE		6 HE	
dimension (hxbxd) mm	267x216x300		267x216x300		267x485x300		267x485x300		267x485x300	

Available types:
 380V through 500V / DC, 50 and 60Hz

type: EVE400/009M

