

Eekels Frequency converters EVE 690/450M12 - 1140M12

(400 through 1200 kW)



model: 450M12 through 570M12



model: 675M12 through 855M12 (1140M12 4 sections)

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
- Deliverable in standard cabinet systems
- 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 machines, cranes, centrifuges, 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

EVE690/ . . .	450M12		570M12		675M12		855M12		1140M12	
duty class	II	I	II	I	II	I	II	I	II	I
max. motoroutput	400 kW	500 kW	500 kW	630 kW	630 kW	710 kW	710 kW	900 kW	1000kW	1100kW
max. output current	403 A	497 A	472 A	594 A	594 A	670 A	708 A	891 A	1005 A	1120 A
overload (60s)	150 %	120 %	150 %	120 %	150 %	120 %	150 %	120 %	150 %	120 %
manufacturer	EEKELS ELEKTROTECHNIEK B.V.									
input line voltage	2 x 3 x 690V +10 - 15%									
input line frequency	50/60 Hz									
line current	2x214 A	2x268 A	2x268 A	2x338 A	2x338 A	2x380 A	2x380 A	2x482 A	2x536 A	2x589A
cos phi	ca. 0,96									
output line voltage	3 x 0-690V									
frequency range	0-100,00Hz / 0-200,00Hz									
efficiency	higher than 98%									
max. power loss	8 kW	10 kW	10 kW	12,6 kW	12,6 kW	14,2 kW	14,2 kW	18 kW	20 kW	22 kW
cabinet air flow [m3/h]	3200	3200	3200	3200	3200	3200	4800	4800	6400	6400
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	150 m (> 150m optional)									
communication	MODBUS-RTU RS 232 (optional: RS485, fieldbus interface)									
interference protection	IEC 61800-3 (EN 55011 optional)									
line disturbance	According Energiened directive with internal AC-choke									
mass	850		900 kg		1100 kg		1600 kg		2000 kg	
dimension (hxbxd) mm	2365x1600x600		2365x1600x600		2365x1600x600		2365x3000x600		2365x3800x600	

Available types:
 380V through 690V / 6 and 12 puls / DC, 50 and 60Hz

type: EVE690/855M12

Line voltage
 kVA
 Type

