

Eekels Frequency converters EVE 690/1140M12 – 1940M12 (1000 through 1800 kW)



model: 1140M12

Characteristics of the EVE frequency converters:

- Reliable
- High starting torque
- Quick response time (1 ms)
- 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 1,8 MW/690V/12P
- Bi-directional supply units and choppers
- SR-speed control (0,01%)
- Soft starters
- Motors



Technical specifications

EVE690/ . . .	1140M12		1300M12		1600M12		1940M12	
duty class	II	I	II	I	II	I	II	I
max. motoroutput	1 MW	1,1MW	1,1 MW	1,3 MW	1,3MW	1,5 MW	1,5MW	1,8MW
max. output current	1005 A	1120 A	1188 A	1341 A	1341 A	1493 A	1493 A	1888 A
overload (60s)	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	2x536 A	2x589 A	2x589 A	2x695 A	2x695 A	2x804 A	2x804 A	2x964A
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	20 kW	22kW	22 kW	26 kW	26 kW	30 kW	30 kW	36 kW
cabinet air flow [m3/h]	4800	4800	6400	6400	6400	6400	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 3 winding transformer							
mass	1600 kg		2000 kg		2300 kg		2500 kg	
dimension (hxbxd) mm	2365x3000x600		2365x3800x600		2365x3800x600		2365x3800x600	

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

type: EVE690/1140M12

Line voltage
 KVA
 Type

