

Eekels Frequency converters EVE 400/075M through 160M (55 through 132 kW)



model: 075M



model: 100M through 160M

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 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

EVE400/ . . .	075M		100M		110M		140M		160M	
duty class	II	I	II	I	II	I	II	I	II	I
max. motoroutput	55 kW	75 kW	75 kW	90 kW	90 kW	110 kW	110 kW	132 kW	132 kW	160 kW
max. output current	108 A	145 A	147 A	175 A	174 A	217 A	217 A	256 A	256 A	290 A
overload (60s)	150 %	110 %	150 %	125 %	150 %	125 %	150 %	125 %	150 %	120 %
manufacturer	EEKELS ELEKTROTECHNIEK B.V.									
input line voltage	3 x 400V +10 - 15%									
input line frequency	50 Hz									
line current	101 A	136 A	132 A	158 A	158 A	195 A	195 A	230 A	209 A	250 A
cos phi	ca. 0,96									
max. line fuse	200 A gR		250 A gR		315 A gR		350 A gR		350 A gR	
output line voltage	3 x 0-400V									
frequency range	0-100,00Hz / 0-200,00Hz									
efficiency	higher than 97%									
max. power loss	1,5 kW	2,0 kW	1,8 kW	2,2 kW	2,1 kW	2,3 kW	2,3 kW	2,8 kW	2,8 kW	3,4 kW
cabinet air flow [m3/h]	300	400	740		750		900		1100	
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 class A with optional accommodated RFI filter)									
line disturbance	According Energiedirective with external 3-phase line choke									
mass	73 kg		120 kg		150 kg		150 kg		170 kg	
dimension (hxbxd) mm	623x485x360		850x485x450		850x485x450		850x485x450		850x485x450	

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

type: EVE400/160M

