

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

