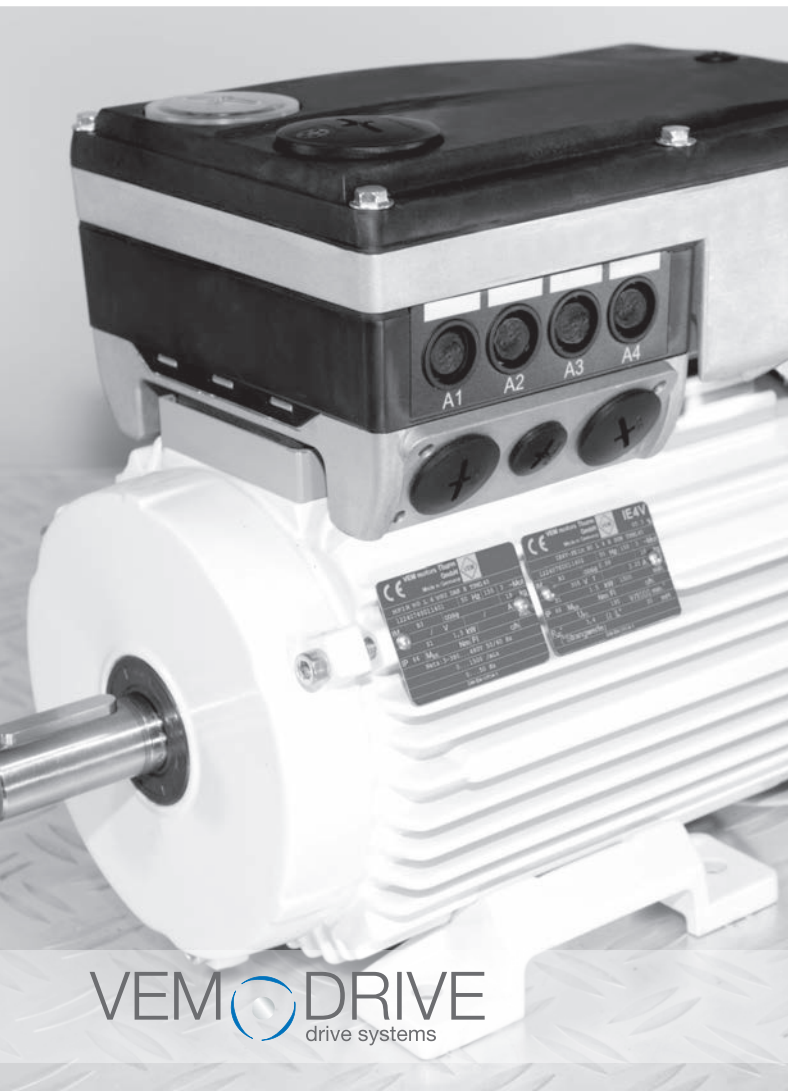




**ELECTRIC DRIVES**  
FOR EVERY DEMAND

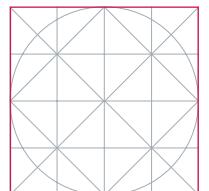


# Variable-speed drives

VEMoDRIVE Compact

**VEM DRIVE**  
drive systems

[www.vem-group.com](http://www.vem-group.com)





# VEMoDRIVE Compact

Compact drives are characterised by high energy and resource efficiency and flexibility. They are the ideal drive system for variable-speed pumps and ventilations in the lower output range. They have also proven their quality in global applications with machines with constant torque characteristics and standard requirements for dynamics and speed stability.

## Compact, robust, cost-efficient

The compact unit, consisting of motor and inverter, offers significant cost advantages compared to conventional units:

- › no project planning for the drives
- › no separate mounting space for the inverter is needed
- › high vibration strength and high degree of protection as standard guarantee an extended lifetime
- › generally no output filter necessary
- › no motor cables only unshielded power cable needed
- › minimum mounting and installation costs
- › minimum startup costs

## Versatile combinations

VEMoDRIVE Compact is available with the same options as the conventional setup (motor and frequency inverter separately). Options for the frequency inverter mainly include external control units and interfaces (e.g. bus interfaces), also input-output and control modules are available options.

For the motor these options primarily include: type of construction, degree of protection, forced ventilation unit and also brakes and encoders. The possibility of activating the brake and analyzing encoder signals can be enabled on request.

## VEMoDRIVE Compact, drive systems in energy efficiency class IES2 to EN 50598

|           |  |
|-----------|--|
| M . . R,  | IE2-/IE3-Asynchronous motors, self-ventilated  |
| M . . F,  | IE2-/IE3-Asynchronous motors, force-ventilated |
| MP . . R, | IE4-PM-motors, self-ventilated                 |
| MP . . F, | IE4-PM-motors, force-ventilated                |

|                       |   |
|-----------------------|---|
| Sizes                 | 71 to 180   |
| Output range          | 0.55 – 22 kW  |
| Degrees of protection | IP 55, IP 54, as option IP 65, IP 66 acc. to IEC/EN 60034-5                   |
| Types of construction | IM B3, IM B5, IM B14 and derived types of construction acc. to IEC/EN 60034-7 |



VEMoDRIVE Compact is suitable for all applications where pumps and ventilators provide for on-demand, energy-efficient media supplies in residential, commercial or factory buildings, as well as in agriculture or for sports and cultural facilities.

**VEMoDRIVE Compact, drive systems in energy efficiency class IES2 to EN 50598:**

Basic motors: Asynchronous motors of efficiency class IE2/IE3 for mains-fed operation according to IEC/EN60034-30-1 or IE3/IE4 for converter-fed operation according to **IEC 2CD 60034-30-2 TS 2015** (draft)

| Output [kW] | Type M . . . -T, -DAN, -KOS      |         |         | Type M . . . -VSI                |         |
|-------------|----------------------------------|---------|---------|----------------------------------|---------|
|             | Mains: 380...480 V 3AC, 50/60 Hz |         |         | Mains: 380...480 V 3AC, 50/60 Hz |         |
|             | 2-pole                           | 4-pole  | 6-pole  | 2-pole                           | 4-pole  |
| 0.55        | 71 G2                            | 80 K4   | 80 G6   | 71 G2                            | 80 K4   |
| 0.75        | 80 K2                            | 80 G4   | 90 S6   | 80 K2                            | 80 G4   |
| 1.1         | 80 G2                            | 90 S4   | 90 L6   | 80 G2                            | 90 S4   |
| 1.5         | 90 S2                            | 90 L4   | 100 LX6 | 90 S2                            | 90 L4   |
| 2.2         | 90 L2                            | 100 L4  | 112 MV6 | 90 L2                            | 100 L4  |
| 3           | 100 L2                           | 100 LX4 | 132 S6  | 100 L2                           | 100 LX4 |
| 4           | 112 MX2                          | 112 MZ4 | 132 M6  | 112 MX2                          | 112 MZ4 |
| 5.5         | 132 S2                           | 132 S4  | 132 MX6 | 132 S2                           | 132 S4  |
| 7.5         | 132 SX2                          | 132 M4  | 160 M6  | 132 SX2                          | 132 M4  |
| 11          |                                  |         |         | 160 M2                           | 160 M4  |
| 15          |                                  |         |         | 160 MX2                          | 160 L4  |
| 18.5        |                                  |         |         | 180 L2                           | 180 M4  |
| 22          |                                  |         |         | 180 M2                           | 180 L4  |

**VEMoDRIVE Compact, drive systems in energy efficiency class IES2 to EN 50598:**

Basic motors: PM motors of efficiency class IE5 for converter-fed operation according to **IEC 2CD 60034-30-2 TS 2015** (draft)

| Output [kW] | Type MP . . . -DAN, -KOS, -VSI   |         |         |
|-------------|----------------------------------|---------|---------|
|             | Mains: 380...480 V 3AC, 50/60 Hz |         |         |
|             | 4-pole                           |         | 6-pole  |
|             | 100 Hz                           | 50 Hz   | 50 Hz   |
| 0.55        | 71 G4                            | 80 K4   | 80 G6   |
| 0.75        | 80 K4                            | 80 G4   | 90 S6   |
| 1.1         | 80 G4                            | 90 S4   | 90 L6   |
| 1.5         | 90 S4                            | 90 L4   | 100 L6  |
| 2.2         | 90 L4                            | 100 L4  | 112 M6  |
| 3           | 100 L4                           | 100 LX4 | 132 S6T |
| 4           | 112 MY4                          | 112 M4  | 132 M6  |
| 5.5         | 132 SY4T                         | 112 MX4 | 132 MX6 |
| 7.5         | 132 S4T                          | 132 M4  | 160 M6  |



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