



Manufacturer

Customer

**VEM motors GmbH - Werk Wernigerode**  
**Carl-Friedrich-Gauß-Straße 1**

**38855 WERNIGERODE**  
**Deutschland**

**Three-phase motors with squirrel cage rotor,**  
**Housing grey cast iron**

|                          |                       |                  |                    |
|--------------------------|-----------------------|------------------|--------------------|
| Type                     | IE3-W43R 200 L4 HB HW |                  |                    |
| Design output            | ( kW )                | 30               | 33                 |
| Design torque            | ( Nm )                | 194              | 177                |
| Voltage                  | ( V )                 | 400/690          | 460                |
| Connection               | [ - ]                 | D                | Y D                |
| Design frequency         | ( Hz )                | 50               | 60                 |
| Class IE                 | [ - ]                 | IE3-93,6%        | IE3-94,1%          |
| Efficiency100/75/50 %    | [ % ]                 | 93,6 / 94 / 93,7 | 94,1 / 94,1 / 93,4 |
| Efficiency determination | EN 60034-2-1          |                  |                    |
| Power factor             | [ - ]                 | 0,86             | 0,86               |
| Duty type                |                       | S1               |                    |
| Design speed             | [rpm]                 | 1480             | 1780               |
| Current                  | [ A ]                 | 54.0             | 31.3 51            |
| Relative pull-in current | [ - ]                 | 6,4              | 6,5                |
| Relative starting torque | [ - ]                 | 1,8              | 1,8                |
| Relative pull-up torque  | [ - ]                 | 1,6              | 1,6                |
| Relative pull-out torque | [ - ]                 | 2,5              | 2,5                |
| Th. cl.                  |                       | 155(F/B)         |                    |
| Coolant temperature      | ( °C )                | -20°C...+40°C    |                    |
| Altitude above sea level | ( m )                 | 1000m            |                    |
| Degree of protection IP  |                       | IP55             |                    |
| Moment of inertia        | ( kgm <sup>2</sup> )  | 0,313            |                    |
| Motor weight             | ( kg )                | 304              |                    |
| Bearing, D-side          |                       | 6312 C3          |                    |
| Bearing, N-side          |                       | 6312 C3          |                    |
| Relubrication interval   | ( h )                 |                  |                    |
| Grease type              |                       | ASONIC GHY 72    |                    |
| Grease amount            | [cm <sup>3</sup> ]    |                  |                    |
| A-sound pressure level   | ( dB )                | 65               |                    |

**Options**

|  |  |
|--|--|
| Type of mounting                                 | IM V1 Protection cover                                     |
| Flange   | FF 350[A 400]  |
| Terminal box                                     | Standard   |
| Position of terminal box                         | on the top   |
| Cable gland                                      | Sealing plug   |
| Position of cable entry                          | right  |
| Shaft  | Standard, 1 shaft end                                      |
| Bearing  | Easy bearing arrangement                                   |
| Special details to bearings                      | Fixed bearing, N-side                                      |
| Anti-condensation heating                        | 230V   |
| Limit values to vibration velocity               | Class A  |
| Colour system                                    | Balancing with half key                                    |
| Delivery conditions and/or official regulations: | 01 Moderate (KK C2),RAL 7031 blue-grey<br>IEC / EN 60034-1 |

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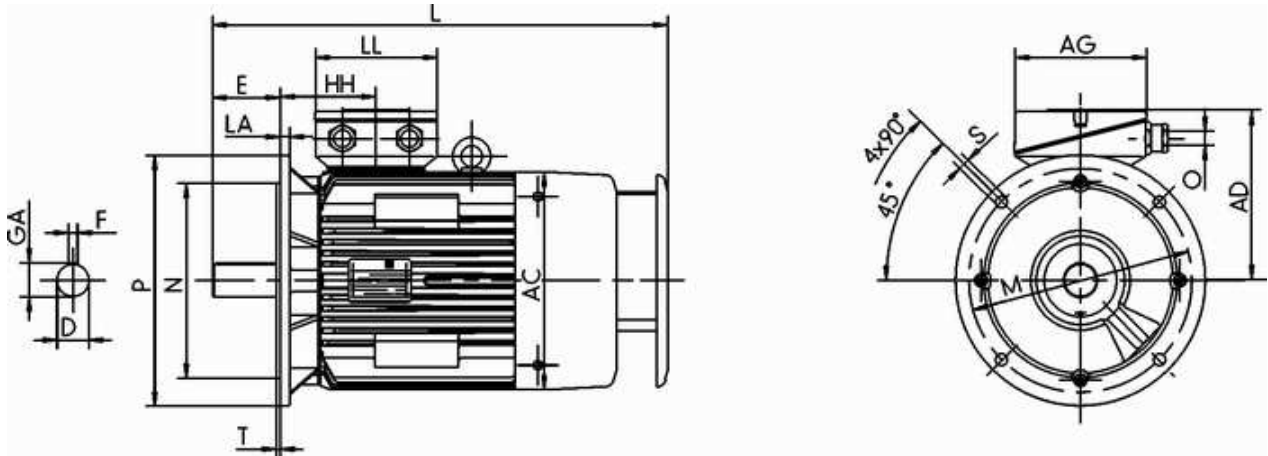
## IE3-W43R 200 L4 HB HW

### Mounting position



Type of mounting: IM V1 Protection cover  
Flange: FF 350[A 400]  
Position of terminal box: on the top  
Brake type:  
Forced-ventilation:

Terminal box: KK 100 A  
Cable gland O: 1 xSealing plug



### Motor

|   |    |     |     |     |     |    |     |     |     |    |                  |   |              |  |
|---|----|-----|-----|-----|-----|----|-----|-----|-----|----|------------------|---|--------------|--|
| A | AA | AB  | AC  | AD  | B   | B' | BA  | BA' | BB  | C  | CA               | K | K'           |  |
| - | -  | -   | 390 | 300 | -   | -  | -   | -   | -   | -  | -                | - | -            |  |
|   |    |     |     |     |     |    |     |     |     |    | Protection cover |   | Terminal box |  |
| L | LC | H   | HA  | HD  | HH  | BI | L   | AG  | LL  | BE | AH               | - | -            |  |
| - | -  | 200 | -   | -   | 168 | 40 | 807 | 213 | 207 | -  | -                | - | -            |  |

### Flange

|     |     |    |     |   |    |            |  |      |    |    |    |
|-----|-----|----|-----|---|----|------------|--|------|----|----|----|
| P   | N   | LA | M   | T | S  | Tolerances |  | H    | N  | D  | DA |
| 400 | 300 | 15 | 350 | 5 | 18 |            |  | -0,5 | h6 | m6 | m6 |

### Shaft-DS

|    |     |    |    |                |          |    |    |    |
|----|-----|----|----|----------------|----------|----|----|----|
| D  | E   | GA | F  | DB             | Shaft-NS |    |    |    |
| 55 | 110 | 59 | 16 | DIN 332 DS-M20 | DA       | EA | GC | FA |
| -  | -   | -  | -  | -              | -        | -  | -  | -  |

### DB...Centre hole

Delivery conditions and/or official regulations: IEC / EN 60034-1

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