



Manufacturer

Customer

**VEM motors Thurm GmbH**  
**Äußere Dresdener Str. 35**

**08066 ZWICKAU**  
**Deutschland**

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

|                          |                      |                    |
|--------------------------|----------------------|--------------------|
| Type                     | IE2-WE2R 80 G2       |                    |
| Design output            | ( kW )               | 1,1                |
| Design torque            | ( Nm )               | 3,75               |
| Class IE                 | ( - )                | IE2-79,6%          |
| Efficiency determination |                      | EN 60034-2-1       |
| Duty type                |                      | S1                 |
| Design frequency         | ( Hz )               | 50                 |
| Design speed             | [rpm]                | 2805               |
| Voltage                  | ( V )                | 230/400            |
| Connection               | ( - )                | D                  |
| Current                  | ( A )                | 4.1                |
| Relative pull-in current | ( - )                | 5,6                |
| Relative starting torque | ( - )                | 1,9                |
| Relative pull-out torque | ( - )                | 2,2                |
| Efficiency100/75/50 %    | ( % )                | 79,6 / 78,7 / 76,4 |
| Power factor             | ( - )                | 0,85               |
| 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> ) | 0,00072            |
| Motor weight             | ( kg )               | 11,5               |
| Bearing, D-side          |                      | 6204 2Z C3         |
| Bearing, N-side          |                      | 6204 2Z C3         |
| Relubrication interval   | ( h )                |                    |
| Grease type              |                      | Asonic GLY 32      |
| Grease amount            | ( g )                |                    |
| A-sound pressure level   | ( dB )               | a.A.               |

## Options

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Type of mounting                   | IM B14K                                      |
| Flange:                            | FT 100[C 120]                                |
| Terminal box                       | Standard                                     |
| Position of terminal box           | on the top                                   |
| Cable gland                        | Sealing plug                                 |
| Position of cable entry            | right                                        |
| Shaft                              | Standard                                     |
| Bearing                            | Easy bearing arrangement                     |
| Limit values to vibration velocity | Class A                                      |
|                                    | Balancing with half key                      |
| Colour system                      | 01 Moderate (KK C2),RAL 7031 blue-grey,60 µm |

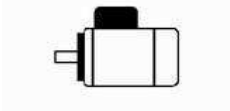
Delivery conditions and/or official regulations: IEC / EN 60034-1

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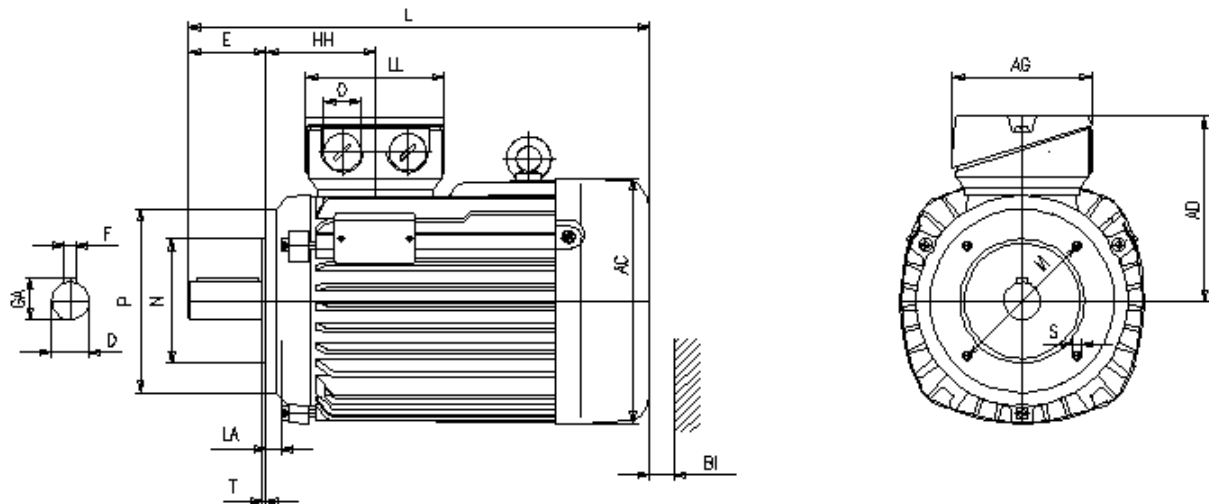
## IE2-WE2R 80 G2

### Mounting position



Type of mounting: IM B14K  
Flange: FT 100[C 120]  
Position of terminal box: on the top  
Brake type:  
Forced-ventilation:

Terminal box: KA 05  
Cable gland O: 1 xSealing plug



### Motor

|     |    |    |     |     |    |    |              |     |    |    |    |   |    |
|-----|----|----|-----|-----|----|----|--------------|-----|----|----|----|---|----|
| A   | AA | AB | AC  | AD  | B  | B' | BA           | BA' | BB | C  | CA | K | K' |
| -   | -  | -  | 139 | 111 | -  | -  | -            | -   | -  | -  | -  | - | -  |
| L   | LC | H  | HA  | HD  | HH | BI | Terminal box |     |    |    |    |   |    |
| 249 | -  | 80 | -   | -   | 67 | 16 | AG           | LL  | BE | AH | -  | - |    |
|     |    |    |     |     |    |    | 92           | 92  | -  | -  |    |   |    |

### Flange

| P   | N  | LA | M   | T | S  | Tolerances |   |   |    |      |    |    |    |
|-----|----|----|-----|---|----|------------|---|---|----|------|----|----|----|
| 120 | 80 | 8  | 100 | 3 | M6 | H          | N | D | DA | -0,5 | j6 | k6 | k6 |

### Shaft-DS

| D  | E  | GA   | F | DB              |
|----|----|------|---|-----------------|
| 19 | 40 | 21,5 | 6 | DIN 332 DS - M6 |

### Shaft-NS

| DA | EA | GC | FA |
|----|----|----|----|
| -  | -  | -  | -  |

### DB...Centre hole

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