

# AC motors

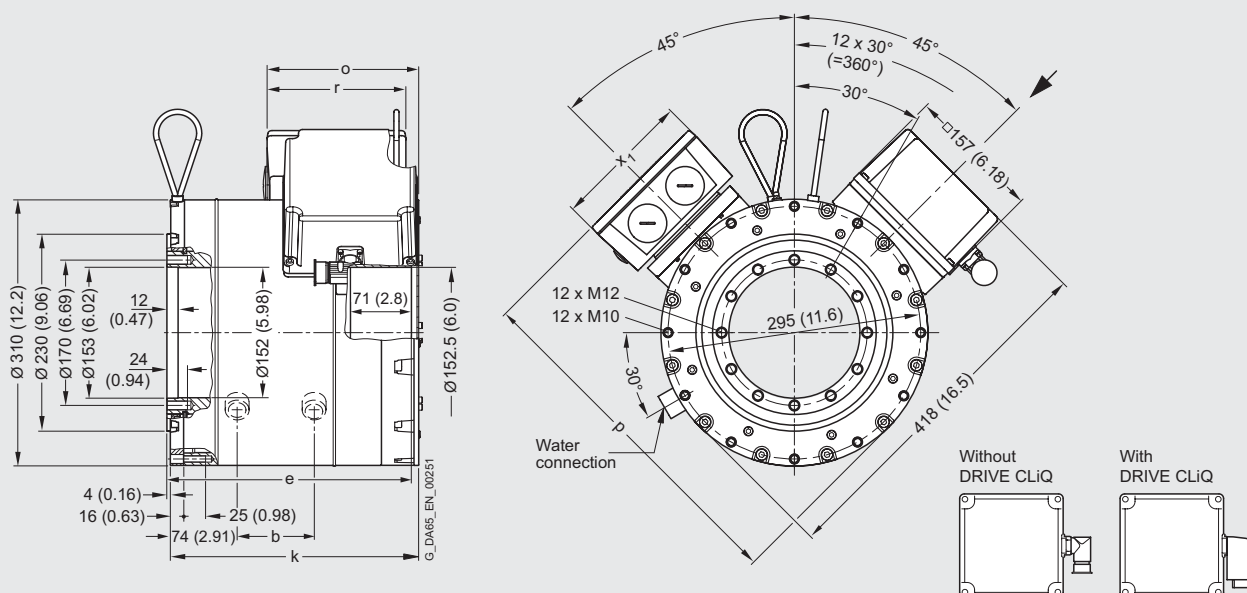
## Dimension drawings - synchronous motors

### 1FW3 motors without/with DRIVE-CLiQ Water cooling

| For motor    |      | Dimensions in mm (in) |                     |   |   |   |    |    |                     |   |    |    |                     |   |    |    |                |
|--------------|------|-----------------------|---------------------|---|---|---|----|----|---------------------|---|----|----|---------------------|---|----|----|----------------|
| Shaft height | Type | DIN IEC               | Terminal box gk 230 |   |   |   |    |    | Terminal box gk 420 |   |    |    | Terminal box gk 630 |   |    |    |                |
|              |      |                       | b                   | e | k | o | p  | r  | x <sub>1</sub>      | o | p  | r  | x <sub>1</sub>      | o | p  | r  | x <sub>1</sub> |
|              |      |                       | —                   | — | L | — | HD | LL | AG                  | — | HD | LL | AG                  | — | HD | LL | AG             |

#### 1FW3, type IM B5, water cooling, with terminal box, belt-mounted encoder

|     |                |                |                |                  |                 |                |               |               |               |                |               |               |               |                |               |               |
|-----|----------------|----------------|----------------|------------------|-----------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|---------------|----------------|---------------|---------------|
| 160 | <b>1FW3150</b> | 68<br>(2.68)   | 256<br>(10.08) | 260.5<br>(10.26) | 159.5<br>(6.28) | 393<br>(15.47) | 122<br>(4.80) | 117<br>(4.61) | 177<br>(6.97) | 409<br>(16.10) | 162<br>(6.38) | 162<br>(6.38) | 201<br>(7.91) | 427<br>(16.81) | 210<br>(8.27) | 210<br>(8.27) |
|     | <b>1FW3152</b> | 125<br>(4.92)  | 313<br>(12.32) | 317.5<br>(12.50) |                 |                |               |               |               |                |               |               |               |                |               |               |
|     | <b>1FW3154</b> | 174<br>(6.85)  | 362<br>(14.25) | 366.5<br>(14.43) |                 |                |               |               |               |                |               |               |               |                |               |               |
|     | <b>1FW3155</b> | 226<br>(8.90)  | 414<br>(16.30) | 418.5<br>(16.48) |                 |                |               |               |               |                |               |               |               |                |               |               |
|     | <b>1FW3156</b> | 279<br>(10.98) | 467<br>(18.39) | 471.5<br>(18.56) |                 |                |               |               |               |                |               |               |               |                |               |               |



## 1FW3 motors without/with DRIVE-CLiQ Water cooling

Technical drawing of the G.DM65 EN 00252 pump assembly, showing a side view and a top view with detailed dimensions in millimeters (mm) and inches (in).

**Side View Dimensions:**

- Total height:  $\varnothing 310$  (12.2)
- Upper section height:  $\varnothing 230$  (9.06)
- Lower section height:  $\varnothing 170$  (6.69)
- Internal diameter:  $\varnothing 153$  (6.02)
- Flange thickness: 12 (0.47)
- Mounting flange diameter:  $\varnothing 152$  (5.98)
- Mounting flange thickness: 24 (0.94)
- Base flange diameter:  $\varnothing 152$  (5.98)
- Base flange thickness: 4 (0.16)
- Base flange diameter: 16 (0.63)
- Base flange thickness: 25 (0.98)
- Base flange diameter: 74 (2.91)
- Base flange thickness: b
- Base flange diameter: k

**Top View Dimensions:**

- Outer diameter: 376 (14.8)
- Inner diameter: 295 (11.6)
- Mounting flange diameter: 12 x M12
- Mounting flange diameter: 12 x M10
- Mounting flange diameter: 30°
- Mounting flange diameter: 45°
- Mounting flange diameter: 12 x 30° (=360°)
- Mounting flange diameter: 45°
- Mounting flange diameter: 30°
- Water connection

**Legend:**

- Without DRIVE CLIQ
- With DRIVE CLIQ

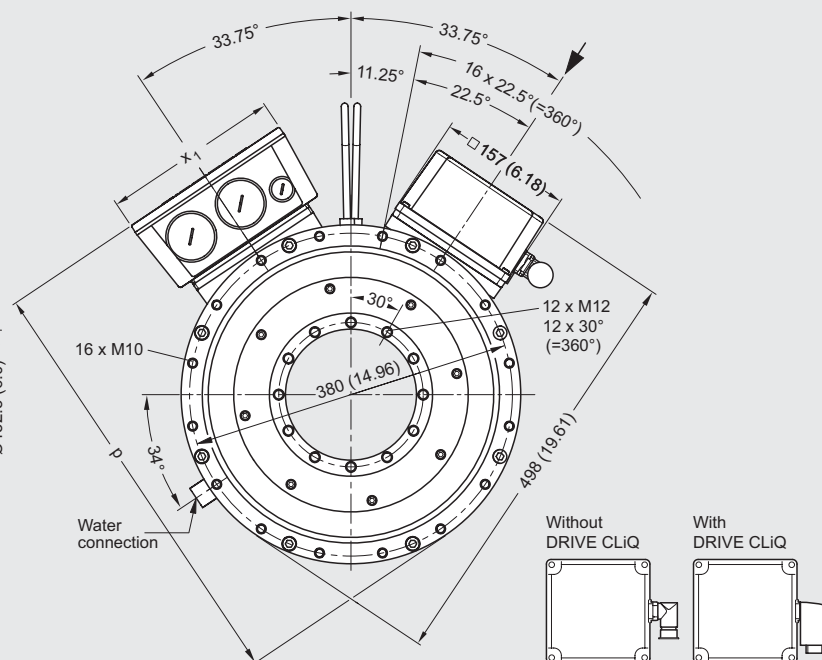
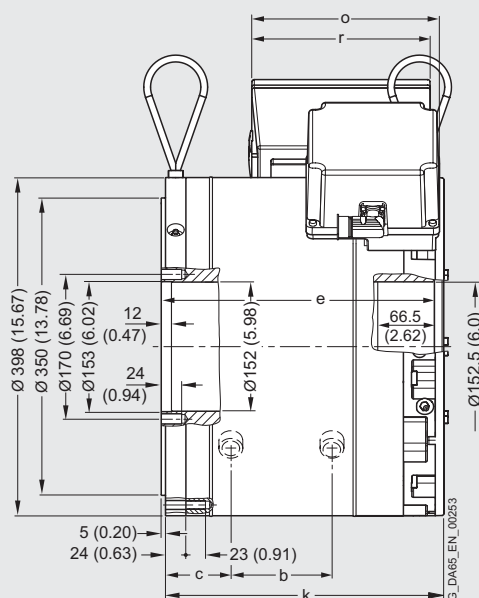
**Reference:** G\_DM65\_EN\_00252

# AC motors

## Dimension drawings - synchronous motors

### 1FW3 motors without/with DRIVE-CLiQ Water cooling

| For motor                                                                       |                | Dimensions in mm (in) |                  |                |                  |                  |                     |                |               |                |                     |                |               |                |                     |                |               |                |
|---------------------------------------------------------------------------------|----------------|-----------------------|------------------|----------------|------------------|------------------|---------------------|----------------|---------------|----------------|---------------------|----------------|---------------|----------------|---------------------|----------------|---------------|----------------|
| Shaft height                                                                    | Type           | DIN IEC               |                  |                |                  |                  |                     |                |               |                |                     |                |               |                |                     |                |               |                |
|                                                                                 |                |                       | b                | c              | e                | k                | Terminal box gk 230 |                |               |                | Terminal box gk 420 |                |               |                | Terminal box gk 630 |                |               |                |
|                                                                                 |                |                       | —                | C              | —                | L                | o                   | p              | r             | x <sub>1</sub> | o                   | p              | r             | x <sub>1</sub> | o                   | p              | r             | x <sub>1</sub> |
|                                                                                 |                |                       |                  |                |                  |                  | —                   | HD             | LL            | AG             | —                   | HD             | LL            | AG             | —                   | HD             | LL            | AG             |
| <b>1FW3, type IM B5, water cooling, with terminal box, belt-mounted encoder</b> |                |                       |                  |                |                  |                  |                     |                |               |                |                     |                |               |                |                     |                |               |                |
| 200                                                                             | <b>1FW3201</b> |                       | 48.5<br>(1.91)   | 67.5<br>(2.66) | 229<br>(9.02)    | 235.5<br>(9.27)  | 158<br>(6.22)       | 474<br>(18.66) | 122<br>(4.80) | 117<br>(4.61)  | 175<br>(6.89)       | 490<br>(19.29) | 162<br>(6.38) | 162<br>(6.38)  | 226<br>(8.90)       | 508<br>(20.00) | 210<br>(8.27) | 210<br>(8.27)  |
|                                                                                 | <b>1FW3202</b> |                       | 94.5<br>(3.72)   | 67.5<br>(2.66) | 275<br>(10.83)   | 281.5<br>(11.08) |                     |                |               |                |                     |                |               |                |                     |                |               |                |
|                                                                                 | <b>1FW3203</b> |                       | 137<br>(5.39)    | 69.5<br>(2.74) | 321.5<br>(12.66) | 328<br>(12.91)   |                     |                |               |                |                     |                |               |                |                     |                |               |                |
|                                                                                 | <b>1FW3204</b> |                       | 206<br>(8.11)    | 69.5<br>(2.74) | 390.5<br>(15.37) | 397<br>(15.63)   |                     |                |               |                |                     |                |               |                |                     |                |               |                |
|                                                                                 | <b>1FW3206</b> |                       | 298.5<br>(11.75) | 69.5<br>(2.74) | 483<br>(19.02)   | 489.5<br>(19.27) |                     |                |               |                |                     |                |               |                |                     |                |               |                |
|                                                                                 | <b>1FW3208</b> |                       | 413.5<br>(16.28) | 69.5<br>(2.74) | 598<br>(23.54)   | 604.5<br>(23.80) |                     |                |               |                |                     |                |               |                |                     |                |               |                |

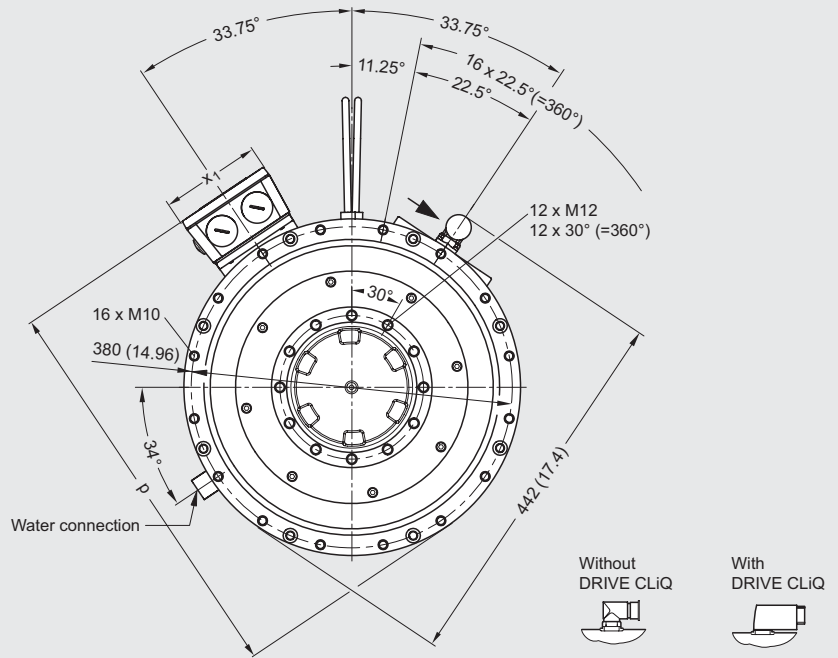
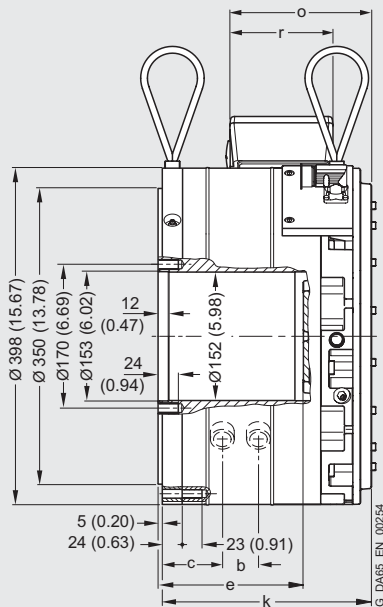


# AC motors

## Dimension drawings - synchronous motors

**1FW3 motors without/with DRIVE-CLiQ**  
**Water cooling**

| For motor                                                                     |         | Dimensions in mm (in) |                     |                |                  |                  |               |                |               |                   |                     |                |               |                   |                     |                |               |                   |  |
|-------------------------------------------------------------------------------|---------|-----------------------|---------------------|----------------|------------------|------------------|---------------|----------------|---------------|-------------------|---------------------|----------------|---------------|-------------------|---------------------|----------------|---------------|-------------------|--|
| Shaft height                                                                  | Type    | DIN IEC               | Terminal box gk 230 |                |                  |                  |               |                |               |                   | Terminal box gk 420 |                |               |                   | Terminal box gk 630 |                |               |                   |  |
|                                                                               |         |                       | b –                 | c C            | e –              | k L              | o –           | p HD           | r LL          | x <sub>1</sub> AG | o –                 | p HD           | r LL          | x <sub>1</sub> AG | o –                 | p HD           | r LL          | x <sub>1</sub> AG |  |
| 1FW3, type IM B5, water cooling, with terminal box, coaxially mounted encoder |         |                       |                     |                |                  |                  |               |                |               |                   |                     |                |               |                   |                     |                |               |                   |  |
| 200                                                                           | 1FW3201 |                       | 48.5<br>(1.91)      | 67.5<br>(2.66) | 172<br>(6.77)    | 247.5<br>(9.74)  | 167<br>(6.57) | 474<br>(18.66) | 122<br>(4.80) | 117<br>(4.61)     | 188<br>(7.40)       | 490<br>(19.29) | 162<br>(6.38) | 162<br>(6.38)     | 239<br>(9.41)       | 508<br>(20.00) | 210<br>(8.27) | 210<br>(8.27)     |  |
|                                                                               | 1FW3202 |                       | 94.5<br>(3.72)      | 67.5<br>(2.66) | 218<br>(8.58)    | 293.5<br>(11.56) |               |                |               |                   |                     |                |               |                   |                     |                |               |                   |  |
|                                                                               | 1FW3203 |                       | 137<br>(5.39)       | 69.5<br>(2.74) | 264.5<br>(10.41) | 340<br>(13.39)   |               |                |               |                   |                     |                |               |                   |                     |                |               |                   |  |
|                                                                               | 1FW3204 |                       | 206<br>(8.11)       | 69.5<br>(2.74) | 333.5<br>(13.13) | 409<br>(16.10)   |               |                |               |                   |                     |                |               |                   |                     |                |               |                   |  |
|                                                                               | 1FW3206 |                       | 298.5<br>(11.75)    | 69.5<br>(2.74) | 426<br>(16.77)   | 501.5<br>(19.74) |               |                |               |                   |                     |                |               |                   |                     |                |               |                   |  |
|                                                                               | 1FW3208 |                       | 413.5<br>(16.28)    | 69.5<br>(2.74) | 541<br>(21.30)   | 616.5<br>(24.27) |               |                |               |                   |                     |                |               |                   |                     |                |               |                   |  |

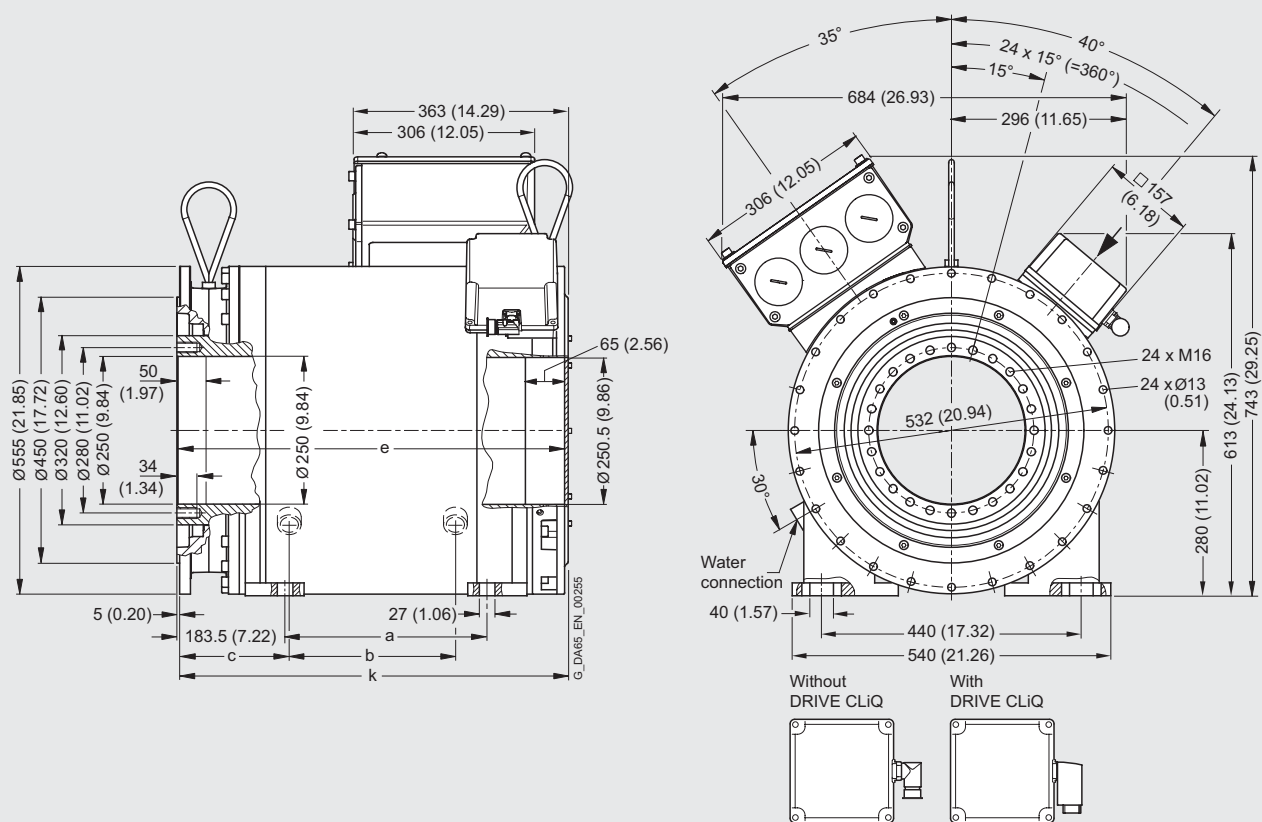


## Dimension drawings - synchronous motors

## 1FW3 motors without/with DRIVE-CLiQ Water cooling

For motor                      Dimensions in mm (in)

| Shaft height                                                                     | Type           | DIN IEC | a B              | b –              | c C           | e –              | k L              |
|----------------------------------------------------------------------------------|----------------|---------|------------------|------------------|---------------|------------------|------------------|
| <b>1FW3, type IM B35, water cooling, with terminal box, belt-mounted encoder</b> |                |         |                  |                  |               |                  |                  |
| 280                                                                              | <b>1FW3281</b> |         | 258<br>(10.16)   | 217<br>(8.54)    | 174<br>(6.85) | 571<br>(22.48)   | 574<br>(22.60)   |
|                                                                                  | <b>1FW3283</b> |         | 342.5<br>(13.48) | 301.5<br>(11.87) |               | 655.5<br>(25.81) | 658.5<br>(25.93) |
|                                                                                  | <b>1FW3285</b> |         | 468.5<br>(18.44) | 427.5<br>(16.83) |               | 781.5<br>(30.77) | 784.5<br>(30.89) |
|                                                                                  | <b>1FW3288</b> |         | 637<br>(25.08)   | 596<br>(23.46)   |               | 950<br>(37.40)   | 953<br>(37.52)   |



AC motors

Dimension drawings - synchronous motors

1FW3 motors without/with DRIVE-CLiQ

Water cooling

| For motor                                                                      |      | Dimensions in mm (in) |     |     |     |     |     |
|--------------------------------------------------------------------------------|------|-----------------------|-----|-----|-----|-----|-----|
| Shaft height                                                                   | Type | DIN IEC               | a B | b – | c C | e – | k L |
| 1FW3, type IM B35, water cooling, with terminal box, coaxially mounted encoder |      |                       |     |     |     |     |     |

|     |         |         |         |        |         |         |
|-----|---------|---------|---------|--------|---------|---------|
| 280 | 1FW3281 | 258     | 217     | 174    | 514     | 589.5   |
|     |         | (10.16) | (8.54)  | (6.85) | (20.24) | (23.56) |
|     | 1FW3283 | 342.5   | 301.5   |        | 598.5   | 674     |
|     |         | (13.48) | (11.87) |        | (23.56) | (26.54) |
|     | 1FW3285 | 468.5   | 427.5   |        | 724.5   | 800     |
|     |         | (18.44) | (16.83) |        | (28.52) | (31.50) |
|     | 1FW3288 | 637     | 596     |        | 893     | 968.5   |
|     |         | (25.08) | (23.46) |        | (35;16) | (38.13) |

