

## General performance motors

**Low voltage motors with high efficiency IE3**

Frame sizes 56 to 355, Power range 0,06 to 355kW

Electric motor with smart sensors from CAG simplifies machine health data collection and provides them for easy to reach expert analyses, increasing efficiency and improving reliability.



# CAG GOLD loyalty program

Buy CAG motors and get a grams of gold,  
for every 100kw bought you get 1g of gold bar.

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More info at your dealers or at  
[cagdrives.com](http://cagdrives.com)



Purchase



Calculate kW



Ask me



Receive

The gold bars are made in Switzerland from 24 carat gold.

# Enterprise Digital Transformation

Seamless connectivity and compatibility across E2E processes is one of the essential prerequisites for Enterprise digital transformation

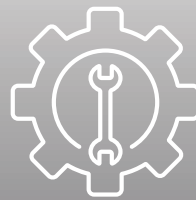
CAG Smart Vision solutions are enabling entry points and gradual Enterprise Digital Transformation with creating business opportunities and increase in overall competitiveness.



## The Motors which will tell you themselves:



How to install them correctly



How to put them into operation correctly



When and how to perform preventive maintenance



How to solve unexpected failures



How to contact the manufacturer's direct support



What is their operational and service history

## Technical data

## STANDARD FEATURE:

- Cooling method: TEFC (Totally enclosed fan cooled) – IC411
- Rated output: from 0,09 TO 315 kW
- Number of poles: 2, 4, 6
- Frame size: from 56 to 315
- Rated frequency: 50 / 60 Hz
- Motors are designed for using variable speed drive only
- Rated voltage:  
0,09 - 315 kW / 50 Hz: 400 V  
0,09 - 315 kW / 60 Hz: 460 V
- Standard color:  
RAL 7030
- Service factor: 1.00
- Ambient temperature: -20 to +40°C,
- Altitude: 1000 m. a. s. l.
- Insulation class: F
- Protection degree: IP55
- Standard mounting: IM B3
- Vibration class: A
- Type of duty cycle: S1
- Insulation system of motor is suitable for drive the motor by frequency inverter
- Rotor: Aluminum, with squirrel cage
- Shaft sealing:  
V-ring for frame size up to 180 mm  
Oil seals for frame size 180 mm and higher
- Material of nameplate: Steel
- Thread in the forward side of shaft
- Special insulation of winding till the voltage 550V
- Bearings: Stronger range
- Cable glands:  
2 pc of power, 1 pc of control

## OPTIONAL AVAILABLE:

- Other mounting: IM B5, B14, B35, B34
- Number of poles: 8,10,12
- Various required voltage
- Increased insulation class: H
- Increased vibration class: B
- Additional vibration sensor
- Optional thermal protector:  
3xPTO in winding (3 in series)  
3xPTC in winding (3 in series)  
3xPT100 in winding (1 per coil)  
2xPT100 in bearing (1 per bearing)
- Increased protection degree: IP56, IP65, IP66
- Optional shaft sealing: labyrinth seal, Oil seal (gufero),
- Auxiliary terminal box for sensors
- Winding heating
- Material of the cooling fan: aluminum, bronzed
- Roof on the fan cover
- Double shaft end
- Encoder (speed sensor)
- Material of cable gland: metal
- Material of shaft: Stainless steel
- Various cooling method
- Electromagnetic brake with manual brake release
- Various ambient temperatures

# Product specification

## Technical data

IP 55 - IC 411 - Insulation class F, temperature rise class B  
IE3 efficiency class according to IEC 60034-30-1 2014

| 2 pole / 3000 rpm |        |      |             |       |      |              |           |           |          |               |
|-------------------|--------|------|-------------|-------|------|--------------|-----------|-----------|----------|---------------|
| MODEL             | Output |      | Current     | Speed | Eff  | Power factor | Istart/In | Tstart/Tn | Tmaxd/Tn | Aprox. weight |
|                   | kW     | HP   | A (at 400V) | rpm   | %    |              |           |           |          | kg            |
| HLA20 561-2       | 0,09   | 0,12 | 0,37        | 2700  | 60,1 | 0,59         | 6,5       | 2,3       | 2,3      | 4,1           |
| HLA20 562-2       | 0,12   | 0,16 | 0,48        | 2700  | 60,8 | 0,59         | 6,5       | 2,3       | 2,3      | 4,5           |
| HLA20 631-2       | 0,18   | 0,25 | 0,62        | 7200  | 65,9 | 0,64         | 6,5       | 2,3       | 2,3      | 5,5           |
| HLA20 632-2       | 0,25   | 0,33 | 0,77        | 2740  | 69,7 | 0,67         | 6,5       | 2,3       | 2,3      | 6,2           |
| HLA20 711-2       | 0,37   | 0,5  | 1,02        | 2740  | 73,8 | 0,71         | 6,5       | 2,3       | 2,3      | 7,3           |
| HLA20 712-2       | 0,55   | 0,75 | 1,38        | 2740  | 77,8 | 0,74         | 6,5       | 2,3       | 2,3      | 8,2           |
| HA30 801-2        | 0,75   | 1    | 1,72        | 2850  | 80,7 | 0,78         | 6,8       | 2,3       | 2,3      | 10,3          |
| HA30 802-2        | 1,1    | 1,5  | 2,46        | 2850  | 82,7 | 0,78         | 7,3       | 2,3       | 2,3      | 11,1          |
| HA30 905-2        | 1,5    | 2    | 3,21        | 2850  | 84,2 | 0,80         | 7,6       | 2,3       | 2,3      | 15,0          |
| HA30 90L-2        | 2,2    | 3    | 4,62        | 2850  | 85,9 | 0,80         | 7,8       | 2,3       | 2,3      | 18,0          |
| HA30 100L-2       | 3      | 4    | 6,06        | 2880  | 87,1 | 0,82         | 8,1       | 2,3       | 2,3      | 24,0          |
| HA30 112M-2       | 4      | 5,5  | 7,90        | 2880  | 88,1 | 0,83         | 8,3       | 2,3       | 2,3      | 29,0          |
| HA30 132S1-2      | 5,5    | 7,5  | 10,72       | 2900  | 89,2 | 0,83         | 8,0       | 2,2       | 2,3      | 42,4          |
| HA30 132S2-2      | 7,5    | 10   | 14,48       | 2900  | 90,1 | 0,83         | 7,8       | 2,2       | 2,3      | 47,4          |
| HA30 160M1-2      | 11     | 15   | 20,73       | 2920  | 91,2 | 0,84         | 7,9       | 2,2       | 2,3      | 73,4          |
| HA30 160M2-2      | 15     | 20   | 28,05       | 2920  | 91,9 | 0,84         | 8,0       | 2,2       | 2,3      | 83,4          |
| HA30 160L-2       | 18,5   | 25   | 34,00       | 2920  | 92,4 | 0,85         | 8,1       | 2,2       | 2,3      | 95,4          |
| HG30 180M-2       | 22     | 30   | 39,83       | 2950  | 92,7 | 0,86         | 8,1       | 2,2       | 2,3      | 184,0         |
| HG30 200L1-2      | 30     | 40   | 53,97       | 2965  | 93,3 | 0,86         | 7,5       | 2,0       | 2,3      | 240,0         |
| HG30 200L2-2      | 37     | 50   | 66,27       | 2965  | 93,7 | 0,86         | 7,5       | 2,0       | 2,3      | 262,0         |
| HG30 225M-2       | 45     | 60   | 80,35       | 2965  | 94,0 | 0,86         | 7,5       | 2,2       | 2,3      | 312,0         |
| HG30 250M-2       | 55     | 75   | 97,89       | 2975  | 94,3 | 0,86         | 7,6       | 2,2       | 2,3      | 417,0         |
| HG30 280S-2       | 75     | 100  | 132,92      | 2975  | 94,7 | 0,86         | 6,9       | 1,8       | 2,3      | 544,0         |
| HG30 280M-2       | 90     | 125  | 159,00      | 2975  | 95,0 | 0,86         | 6,9       | 1,8       | 2,3      | 616,0         |
| HG30 315S-2       | 110    | 150  | 191,70      | 2985  | 95,2 | 0,87         | 7,0       | 1,8       | 2,2      | 1073,0        |
| HG30 315M-2       | 132    | 180  | 229,55      | 2985  | 95,4 | 0,87         | 7,0       | 1,8       | 2,2      | 1108,0        |
| HG30 315L1-2      | 160    | 220  | 274,51      | 2985  | 95,6 | 0,88         | 7,1       | 1,8       | 2,2      | 1130,0        |
| HG30 315L2-2      | 200    | 270  | 342,42      | 2985  | 95,8 | 0,88         | 7,1       | 1,8       | 2,2      | 1129,0        |

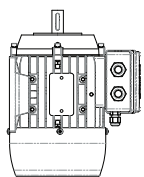
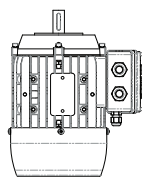
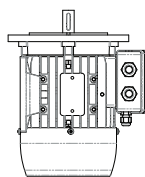
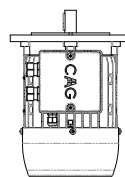
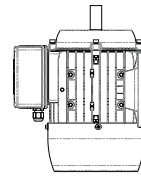
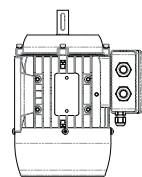
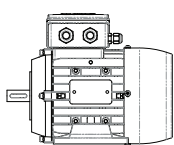
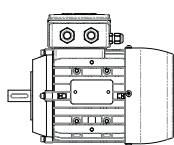
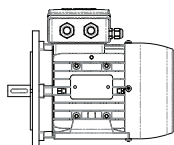
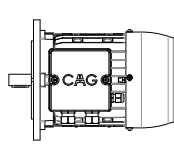
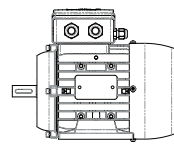
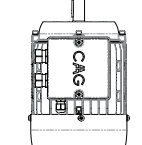
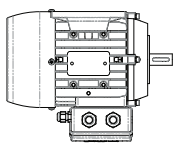
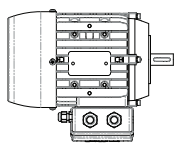
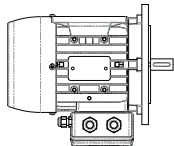
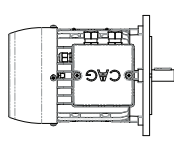
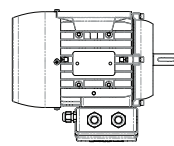
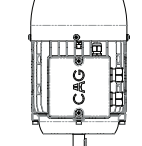
IP 55 - IC 411 - Insulation class F, temperature rise class B  
IE3 efficiency class according to IEC 60034-30-1 2014

| 4 pole / 1500 rpm |        |      |             |       |      |              |           |           |          |               |
|-------------------|--------|------|-------------|-------|------|--------------|-----------|-----------|----------|---------------|
| MODEL             | Output |      | Current     | Speed | Eff  | Power factor | Istart/In | Tstart/Tn | Tmaxd/Tn | Aprox. weight |
|                   | kW     | HP   | A (at 400V) | rpm   | %    |              |           |           |          | kg            |
| HLA20 562-4       | 0,09   | 0,12 | 0,32        | 1390  | 64,5 | 0,63         | 6,0       | 2,3       | 2,3      | 4,6           |
| HLA20 631-4       | 0,12   | 0,16 | 0,42        | 1400  | 64,8 | 0,64         | 6,0       | 2,3       | 2,3      | 5,6           |
| HLA20 632-4       | 0,18   | 0,25 | 0,57        | 1400  | 69,9 | 0,65         | 6,0       | 2,3       | 2,3      | 6,3           |
| HLA20 711-4       | 0,25   | 0,33 | 0,73        | 1410  | 73,5 | 0,67         | 6,2       | 2,3       | 2,3      | 7,1           |
| HLA20 712-4       | 0,37   | 0,5  | 1,00        | 1410  | 77,3 | 0,69         | 6,2       | 2,3       | 2,3      | 8,0           |
| HLA20 801-4       | 0,55   | 0,75 | 1,40        | 1410  | 80,8 | 0,70         | 6,3       | 2,3       | 2,3      | 10,0          |
| HA30 802-4        | 0,75   | 1    | 1,87        | 1420  | 82,5 | 0,70         | 6,5       | 2,3       | 2,3      | 10,9          |
| HA30 905-4        | 1,1    | 1,5  | 2,62        | 1420  | 84,1 | 0,72         | 6,6       | 2,3       | 2,3      | 15,0          |
| HA30 90L-4        | 1,5    | 2    | 3,53        | 1420  | 85,3 | 0,72         | 6,9       | 2,3       | 2,3      | 18,0          |
| HA30 100L1-4      | 2,2    | 3    | 4,82        | 1430  | 86,7 | 0,76         | 7,5       | 2,3       | 2,3      | 22,0          |
| HA30 100L2-4      | 3      | 4    | 6,41        | 1430  | 87,7 | 0,77         | 7,6       | 2,3       | 2,3      | 25,0          |
| HA30 112M-4       | 4      | 5,5  | 8,46        | 1430  | 88,6 | 0,77         | 7,7       | 2,3       | 2,3      | 31,0          |
| HA30 132S-4       | 5,5    | 7,5  | 11,36       | 1460  | 89,6 | 0,78         | 7,5       | 2,0       | 2,3      | 44,4          |
| HA30 132M-4       | 7,5    | 10   | 15,16       | 1460  | 90,4 | 0,79         | 7,4       | 2,0       | 2,3      | 53,4          |
| HA30 160M-4       | 11     | 15   | 21,99       | 1460  | 91,4 | 0,79         | 7,5       | 2,2       | 2,3      | 78,4          |
| HA30 160L-4       | 15     | 20   | 29,38       | 1460  | 92,1 | 0,80         | 7,5       | 2,2       | 2,3      | 90,4          |
| HG30 180M-4       | 18,5   | 25   | 35,17       | 1470  | 92,6 | 0,82         | 7,6       | 2,0       | 2,3      | 178,0         |
| HG30 180L-4       | 22     | 30   | 41,64       | 1470  | 93,0 | 0,82         | 7,7       | 2,1       | 2,3      | 193,0         |
| HG30 200L-4       | 30     | 40   | 56,42       | 1475  | 93,6 | 0,82         | 7,1       | 2,1       | 2,3      | 259,0         |
| HG30 225S-4       | 37     | 50   | 68,52       | 1480  | 93,9 | 0,83         | 7,3       | 2,1       | 2,3      | 299,0         |
| HG30 225M-4       | 45     | 60   | 83,07       | 1480  | 94,2 | 0,83         | 7,3       | 2,2       | 2,3      | 332,0         |
| HG30 250M-4       | 55     | 75   | 101,11      | 1485  | 94,6 | 0,83         | 7,3       | 2,2       | 2,3      | 439,0         |
| HG30 280S-4       | 75     | 100  | 135,66      | 1490  | 95,0 | 0,84         | 6,8       | 2,2       | 2,3      | 599,0         |
| HG30 280M-4       | 90     | 125  | 160,53      | 1490  | 95,2 | 0,85         | 6,9       | 2,2       | 2,3      | 674,0         |
| HG30 315S-4       | 110    | 150  | 193,52      | 1490  | 95,4 | 0,86         | 6,9       | 2,1       | 2,2      | 984,0         |
| HG30 315M-4       | 132    | 180  | 231,74      | 1490  | 95,6 | 0,86         | 6,9       | 2,1       | 2,2      | 1111,0        |
| HG30 315L1-4      | 160    | 220  | 277,09      | 1490  | 95,8 | 0,87         | 6,9       | 2,1       | 2,2      | 1210,0        |
| HG30 315L2-4      | 200    | 270  | 345,64      | 1490  | 96,0 | 0,87         | 6,9       | 2,1       | 2,2      | 1331,0        |

## Technical data

IP 55 - IC 411 - Insulation class F, temperature rise class B  
IE3 efficiency class according to IEC 60034-30-1 2014

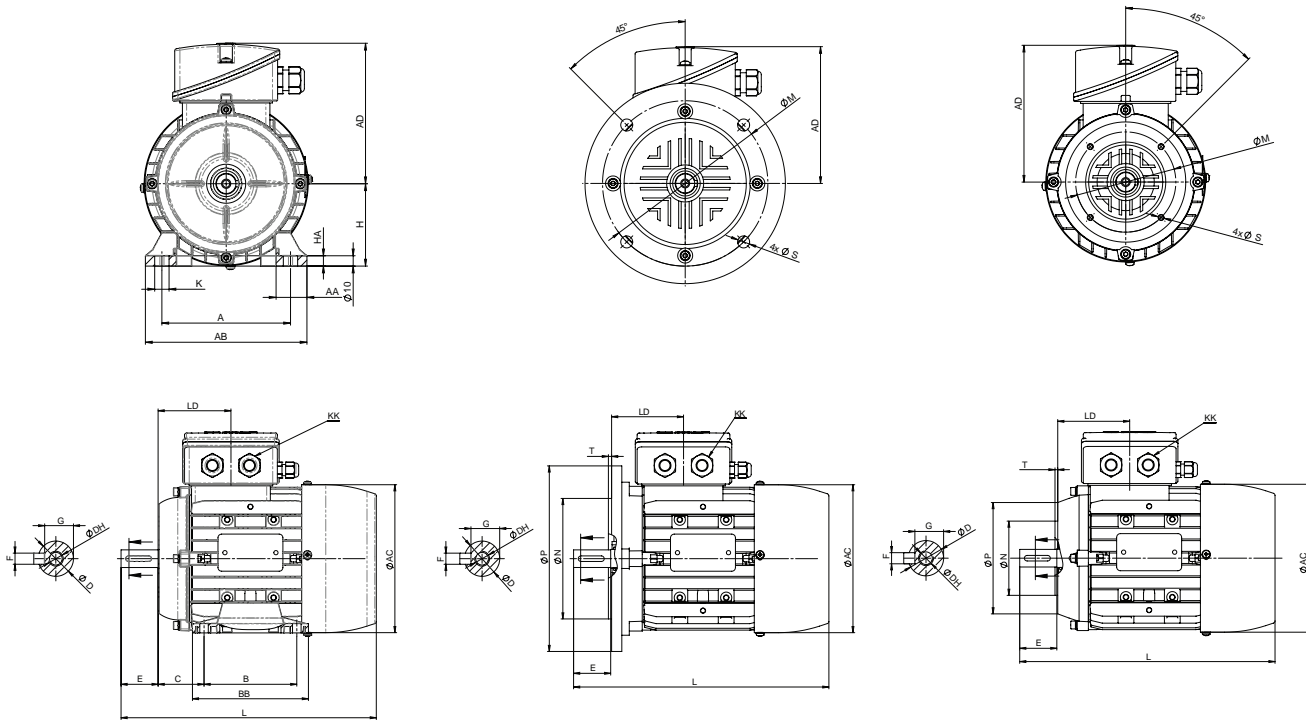
| 6 pole / 1000 rpm |        |      |             |       |      |              |           |           |          |                     |
|-------------------|--------|------|-------------|-------|------|--------------|-----------|-----------|----------|---------------------|
| MODEL             | Output |      | Current     | Speed | Eff  | Power factor | Istart/In | Tstart/Tn | Tmaxd/Tn | Aprox. weight<br>kg |
|                   | kW     | HP   | A (at 400V) | rpm   | %    |              |           |           |          |                     |
| HLA20 711-6       | 0,18   | 0,25 | 0,63        | 890   | 65,4 | 0,63         | 5,8       | 2,1       | 2,1      | 7,8                 |
| HLA20 712-6       | 0,25   | 0,33 | 0,83        | 890   | 68,6 | 0,63         | 5,8       | 2,1       | 2,1      | 8,4                 |
| HLA20 801-6       | 0,37   | 0,5  | 1,12        | 890   | 73,5 | 0,65         | 5,8       | 2,1       | 2,1      | 10,2                |
| HLA20 802-6       | 0,55   | 0,75 | 1,53        | 940   | 77,2 | 0,67         | 5,8       | 2,1       | 2,1      | 11,3                |
| HA30 905-6        | 0,75   | 1    | 2,05        | 940   | 78,9 | 0,67         | 5,8       | 2,1       | 2,1      | 15,0                |
| HA30 90L-6        | 1,1    | 1,5  | 2,88        | 940   | 81,0 | 0,68         | 5,9       | 2,1       | 2,1      | 18,0                |
| HA30 100L-6       | 1,5    | 2    | 3,70        | 940   | 82,5 | 0,71         | 6,0       | 2,1       | 2,1      | 22,0                |
| HA30 112M-6       | 2,2    | 3    | 5,31        | 960   | 84,3 | 0,71         | 6,0       | 2,1       | 2,1      | 27,0                |
| HA30 132S-6       | 3      | 4    | 7,12        | 960   | 85,6 | 0,71         | 6,2       | 2,0       | 2,1      | 41,4                |
| HA30 132M1-6      | 4      | 5,5  | 9,37        | 960   | 86,8 | 0,71         | 6,8       | 2,0       | 2,1      | 48,4                |
| HA30 132M2-6      | 5,5    | 7,5  | 12,53       | 960   | 88,0 | 0,72         | 7,1       | 2,0       | 2,1      | 56,4                |
| HA30 160M-6       | 7,5    | 10   | 16,87       | 960   | 89,1 | 0,72         | 6,7       | 2,1       | 2,1      | 74,4                |
| HA30 160L-6       | 11     | 15   | 24,09       | 960   | 90,3 | 0,73         | 6,9       | 2,1       | 2,1      | 82,4                |
| HG30 180L-6       | 15     | 20   | 30          | 980   | 91,2 | 0,79         | 7,3       | 2,0       | 2,1      | 184,0               |
| HG30 200L1-6      | 18,5   | 25   | 38          | 985   | 91,7 | 0,77         | 7,2       | 2,0       | 2,1      | 235,0               |
| HG30 200L2-6      | 22     | 30   | 44          | 985   | 92,2 | 0,78         | 7,3       | 2,0       | 2,1      | 246,0               |
| HG30 225M-6       | 30     | 40   | 59          | 985   | 92,9 | 0,79         | 6,8       | 2,0       | 2,1      | 316,0               |
| HG30 250M-6       | 37     | 50   | 72          | 985   | 93,3 | 0,80         | 7,0       | 2,0       | 2,1      | 419,0               |
| HG30 280S-6       | 45     | 60   | 85          | 990   | 93,7 | 0,82         | 7,2       | 2,0       | 2,0      | 578,0               |
| HG30 280M-6       | 55     | 75   | 102         | 990   | 94,1 | 0,83         | 7,2       | 2,0       | 2,0      | 649,0               |
| HG30 315S-6       | 75     | 100  | 141         | 990   | 94,6 | 0,81         | 6,5       | 2,0       | 2,0      | 990,0               |
| HG30 315M-6       | 90     | 125  | 167         | 990   | 94,9 | 0,82         | 6,6       | 2,0       | 2,0      | 1107,0              |
| HG30 315L1-6      | 110    | 150  | 204         | 990   | 95,1 | 0,82         | 6,6       | 2,0       | 2,0      | 1177,0              |
| HG30 315L2-6      | 132    | 180  | 241         | 990   | 95,4 | 0,83         | 6,6       | 2,0       | 2,0      | 1375,0              |

IM B14  
IM B34IM B14 **B14**  
IM B14IM B5  
IM B35IM B5 **B5**  
IM B5IM B3  
IM B8IM B3 **B3**  
IM B3IM B14  
IM V58IM B14  
IM V18IM B35  
IM V15IM B5  
IM V1IM B3  
IM V5IM B3  
IM B6IM B14  
IM V69IM B14  
IM V19IM B35  
IM V36IM B5  
IM V3IM B3  
IM V6IM B3  
IM B7

# Aluminium frame motors

## Outlines and mounting dimensions

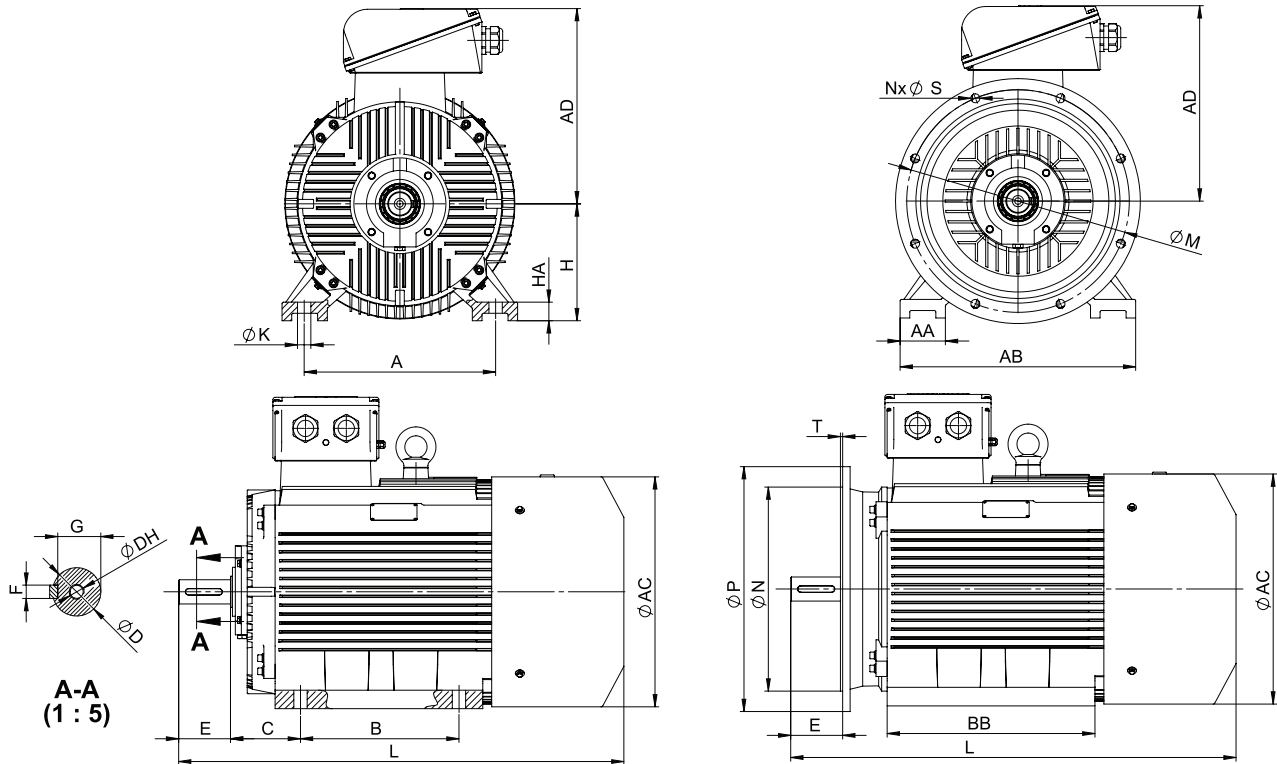
| Dimensional tolerances |                                 |
|------------------------|---------------------------------|
| H                      | - 0,5                           |
| D - DA                 | j6 for diameter up to Ø 28      |
| D - DA                 | k6 for diameter Ø 28 and higher |
| F - FA                 | h9                              |



| MOTOR | OUTLINES AND MOUNTING DIMENSIONS |    |     |    |      |     |         |     |     |     |      |            |     |     |     |     |           |     |     |     |     |                    |     |     |     |     |
|-------|----------------------------------|----|-----|----|------|-----|---------|-----|-----|-----|------|------------|-----|-----|-----|-----|-----------|-----|-----|-----|-----|--------------------|-----|-----|-----|-----|
|       | SHAFT                            |    |     |    |      |     | FOOT B3 |     |     |     |      | FLANGE B14 |     |     |     |     | FLANGE B5 |     |     |     |     | OVERALL DIMENSIONS |     |     |     |     |
| SIZE  | POLES                            | D  | E   | F  | G    | DH  | A       | B   | C   | AB  | K    | M          | N   | P   | S   | T   | M         | N   | P   | S   | T   | H                  | L   | AC  | HD  | AD  |
| 56    | 2,4,6,8                          | 9  | 20  | 3  | 7,2  | M3  | 90      | 71  | 36  | 112 | 5,8  | 65         | 50  | 80  | M5  | 2   | 100       | 80  | 120 | 8,5 | 3   | 56                 | 192 | 108 | 160 | 93  |
| 63    | 2,4,6,8                          | 11 | 23  | 4  | 8,5  | M4  | 100     | 80  | 40  | 120 | 7    | 75         | 60  | 90  | M5  | 2,5 | 115       | 95  | 140 | 10  | 3   | 63                 | 211 | 120 | 165 | 97  |
| 71    | 2,4,6,8                          | 14 | 30  | 5  | 11   | M5  | 112     | 90  | 45  | 135 | 7    | 85         | 70  | 105 | M6  | 2,5 | 130       | 110 | 160 | 10  | 3,5 | 71                 | 240 | 140 | 183 | 104 |
| 80    | 2,4,6,8                          | 19 | 40  | 6  | 15,5 | M6  | 125     | 100 | 50  | 155 | 10   | 100        | 80  | 120 | M6  | 3   | 165       | 130 | 200 | 12  | 3,5 | 80                 | 290 | 160 | 216 | 113 |
| 90S   | 2,4,6,8                          | 24 | 50  | 8  | 20   | M8  | 140     | 100 | 56  | 175 | 10   | 115        | 95  | 140 | M8  | 3   | 165       | 130 | 200 | 12  | 3,5 | 90                 | 325 | 175 | 234 | 123 |
| 90L   | 2,4,6,8                          | 24 | 50  | 8  | 20   | M8  | 140     | 125 | 56  | 175 | 10   | 115        | 95  | 140 | M8  | 3   | 165       | 130 | 200 | 12  | 3,5 | 90                 | 325 | 175 | 235 | 123 |
| 100L  | 2,4,6,8                          | 28 | 60  | 8  | 24   | M10 | 160     | 140 | 63  | 200 | 12   | 130        | 110 | 160 | M8  | 3,5 | 215       | 180 | 250 | 15  | 4   | 100                | 398 | 195 | 255 | 157 |
| 112M  | 2,4,6,8                          | 28 | 60  | 8  | 24   | M10 | 190     | 140 | 70  | 226 | 12   | 130        | 110 | 160 | M8  | 3,5 | 215       | 180 | 250 | 15  | 4   | 112                | 447 | 220 | 285 | 163 |
| 132S  | 2,4,6,8                          | 38 | 80  | 10 | 33   | M12 | 216     | 140 | 89  | 265 | 12   | 165        | 130 | 200 | M10 | 3,5 | 265       | 230 | 300 | 15  | 4   | 132                | 475 | 265 | 324 | 183 |
| 132M  | 2,4,6,8                          | 38 | 80  | 10 | 33   | M12 | 216     | 178 | 89  | 265 | 12   | 165        | 130 | 200 | M10 | 3,5 | 265       | 230 | 300 | 15  | 4   | 132                | 513 | 265 | 324 | 183 |
| 160M  | 2,4,6,8                          | 42 | 110 | 12 | 37   | M16 | 254     | 210 | 108 | 310 | 14,5 | 215        | 180 | 250 | M12 | 4   | 300       | 250 | 350 | 19  | 5   | 160                | 609 | 320 | 398 | 223 |
| 160L  | 2,4,6,8                          | 42 | 110 | 12 | 37   | M16 | 254     | 254 | 108 | 310 | 14,5 | 215        | 180 | 250 | M12 | 4   | 300       | 250 | 350 | 19  | 5   | 160                | 653 | 320 | 398 | 223 |

# Cast iron frame motors

## Outlines and mounting dimensions



| MOTOR |         | OUTLINES AND MOUNTING DIMENSIONS |     |    |      |     |         |     |     |     |      |           |     |     |      |   |                    |      |     |     |     |
|-------|---------|----------------------------------|-----|----|------|-----|---------|-----|-----|-----|------|-----------|-----|-----|------|---|--------------------|------|-----|-----|-----|
|       |         | SHAFT                            |     |    |      |     | FOOT B3 |     |     |     |      | FLANGE B5 |     |     |      |   | OVERALL DIMENSIONS |      |     |     |     |
| SIZE  | POLES   | D                                | E   | F  | G    | DH  | A       | B   | C   | AB  | K    | M         | N   | P   | S    | T | H                  | L    | AC  | HD  | AD  |
| 180M  | 2,4,6,8 | 48                               | 110 | 14 | 42,5 | M16 | 271     | 241 | 121 | 355 | 14,5 | 300       | 250 | 350 | 18,5 | 5 | 180                | 740  | 380 | 455 | 280 |
| 180L  | 2,4,6,8 | 48                               | 110 | 14 | 42,5 | M16 | 279     | 279 | 121 | 355 | 14,5 | 300       | 250 | 350 | 18,5 | 5 | 180                | 790  | 380 | 455 | 280 |
| 200L  | 2,4,6,8 | 55                               | 110 | 16 | 49   | M20 | 318     | 305 | 133 | 395 | 18,5 | 350       | 300 | 400 | 18,5 | 5 | 200                | 790  | 420 | 505 | 305 |
| 225S  | 2,4,6,8 | 60                               | 140 | 18 | 53   | M20 | 356     | 286 | 149 | 395 | 18,5 | 100       | 350 | 450 | 18,5 | 5 | 200                | 790  | 420 | 505 | 305 |
| 225M  | 2       | 55                               | 110 | 16 | 49   | M20 | 356     | 311 | 149 | 435 | 18,5 | 100       | 350 | 450 | 18,5 | 5 | 225                | 825  | 470 | 560 | 335 |
| 225M  | 4,6,8   | 60                               | 140 | 18 | 53   | M20 | 356     | 311 | 149 | 435 | 18,5 | 100       | 350 | 450 | 18,5 | 5 | 225                | 855  | 470 | 560 | 335 |
| 250M  | 2       | 60                               | 140 | 18 | 53   | M20 | 406     | 349 | 168 | 490 | 24   | 500       | 450 | 550 | 18,5 | 5 | 250                | 915  | 510 | 615 | 370 |
| 250M  | 4,6,8   | 65                               | 140 | 18 | 58   | M20 | 457     | 368 | 190 | 490 | 24   | 500       | 450 | 550 | 18,5 | 5 | 250                | 915  | 510 | 615 | 370 |
| 280S  | 2       | 65                               | 140 | 18 | 58   | M20 | 457     | 368 | 190 | 550 | 24   | 500       | 450 | 550 | 18,5 | 5 | 280                | 985  | 580 | 680 | 410 |
| 280S  | 4,6,8   | 75                               | 140 | 20 | 67,5 | M20 | 457     | 368 | 190 | 550 | 24   | 500       | 450 | 550 | 18,5 | 5 | 280                | 985  | 580 | 680 | 410 |
| 280M  | 2       | 65                               | 140 | 18 | 58   | M20 | 457     | 419 | 190 | 550 | 24   | 500       | 450 | 550 | 18,5 | 5 | 280                | 1035 | 580 | 680 | 410 |
| 280M  | 4,6,8   | 75                               | 140 | 20 | 67,5 | M20 | 457     | 419 | 190 | 550 | 24   | 500       | 450 | 550 | 18,5 | 5 | 280                | 1035 | 580 | 680 | 410 |
| 315S  | 2       | 65                               | 140 | 18 | 58   | M20 | 508     | 406 | 216 | 635 | 28   | 600       | 550 | 660 | 24   | 6 | 315                | 1180 | 645 | 854 | 530 |
| 315S  | 4,6,8   | 80                               | 170 | 22 | 71   | M20 | 508     | 406 | 216 | 635 | 28   | 600       | 550 | 660 | 24   | 6 | 315                | 1210 | 645 | 854 | 530 |
| 315M  | 2       | 65                               | 140 | 18 | 58   | M20 | 508     | 457 | 216 | 635 | 28   | 600       | 550 | 660 | 24   | 6 | 315                | 1290 | 645 | 854 | 530 |
| 315M  | 4,6,8   | 80                               | 170 | 22 | 71   | M20 | 508     | 457 | 216 | 635 | 28   | 600       | 550 | 660 | 24   | 6 | 315                | 1320 | 645 | 854 | 530 |
| 315L  | 2       | 65                               | 140 | 18 | 58   | M20 | 508     | 508 | 216 | 635 | 28   | 600       | 550 | 660 | 24   | 6 | 315                | 1290 | 645 | 854 | 530 |
| 315L  | 4,6,8   | 80                               | 170 | 22 | 71   | M20 | 508     | 508 | 216 | 635 | 28   | 600       | 550 | 660 | 24   | 6 | 315                | 1320 | 645 | 854 | 530 |



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