



# Technical data

|           |            |
|-----------|------------|
| Date      | 9/23/2025  |
| Offer N.  | ---        |
| Pump Type | 4MA32-250A |
|           |            |

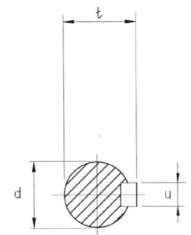
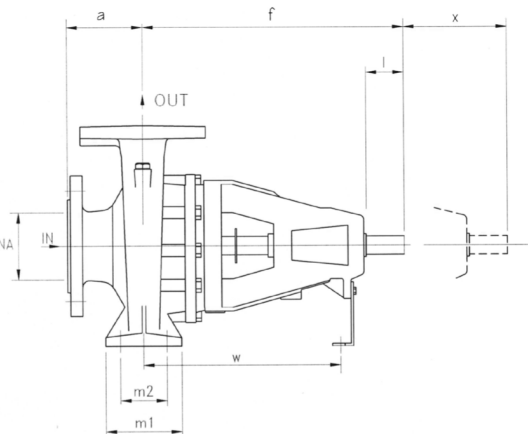
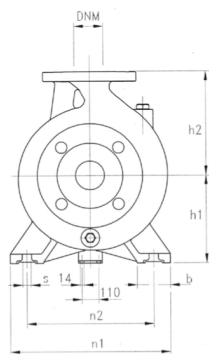
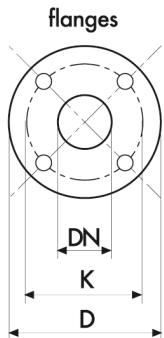
|        |          |           |     |
|--------|----------|-----------|-----|
| Client | EES GmbH | Reference | --- |
|--------|----------|-----------|-----|

## Pump data

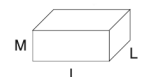
|                           |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pump body and rear shield | Cast iron GJL-250                                                  | Bare-shaft centrifugal pumps manufactured in accordance with EN 733 and widely used in water supply, pressure boosting and fire fighting systems. The pumps are equipped with counter flanges and can be provided with the motor assembled on a common base frame. In the standard version the pumps have cast iron impeller and mechanical seal. On request are available bronze or stainless steel AISI316 impeller and gland packing seal. In the "X" version all the wet parts of the pump are made of AISI 316. |
| Impeller                  | Cast iron GJL-250<br>On request bronze or stainless steel AISI 316 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Pump bearings support     | Cast iron GJL-250                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Type of seal              | Mechanical ceramic-graphite<br>On request: gland packing graphite  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Pump shaft end            | Stainless steel AISI 316 EN X5CrNiMo17-12-2                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Liquid temperature        | -10°C +90°C                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Operating pressure        | Max 10 bar                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                           |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| P2   | Motor Size | Q (m3/h - l/min) |      |     |      |      |      |      |        |        |      |
|------|------------|------------------|------|-----|------|------|------|------|--------|--------|------|
| (kW) |            | 0                | 3    | 6   | 9    | 12   | 15   | 18   | 19     | 20     | 21   |
|      |            | 0                | 50   | 100 | 150  | 200  | 250  | 300  | 316.67 | 333.33 | 350  |
|      |            | H (m)            |      |     |      |      |      |      |        |        |      |
| 2,2  | 100L       | 23.5             | 23.1 | 23  | 22.3 | 20.9 | 18.8 | 16.5 | 15.6   | 14.5   | 13.2 |

## Technical Sheet



| DIMENSIONS (mm) |     |     |       |    |
|-----------------|-----|-----|-------|----|
| DN              | D   | K   | holes |    |
|                 |     |     | n°    | Ø  |
| 32              | 140 | 100 | 4     | 18 |
| 40              | 150 | 110 | 4     | 18 |
| 50              | 165 | 125 | 4     | 18 |
| 65              | 185 | 145 | 4     | 18 |
| 80              | 200 | 160 | 8     | 18 |
| 100             | 220 | 180 | 8     | 18 |
| 125             | 250 | 210 | 8     | 18 |



| DNA | DNM | DIMENSIONS (mm) |     |     |     |     |    |     |     |    |    |    |    |    |   |     |     |     |     | Kg  |    |
|-----|-----|-----------------|-----|-----|-----|-----|----|-----|-----|----|----|----|----|----|---|-----|-----|-----|-----|-----|----|
|     |     | a               | f   | h1  | h2  | m1  | m2 | n1  | n2  | s  | b  | l  | d  | t  | u | x   | w   | l   | L   |     | M  |
| 50  | 32  | 100             | 360 | 180 | 225 | 125 | 95 | 320 | 250 | 14 | 65 | 65 | 24 | 27 | 8 | 100 | 260 | 545 | 405 | 545 | 49 |

## Notes

The information may be subject to change without notice. It is always advisable to contact our commercial department in order to get further information about the products, their technical specifications and warranty conditions. The Company is expressly relieved of any liability for the purchasing of a product not in line with the customer's needs, if not consulted beforehand for a specific consultancy.

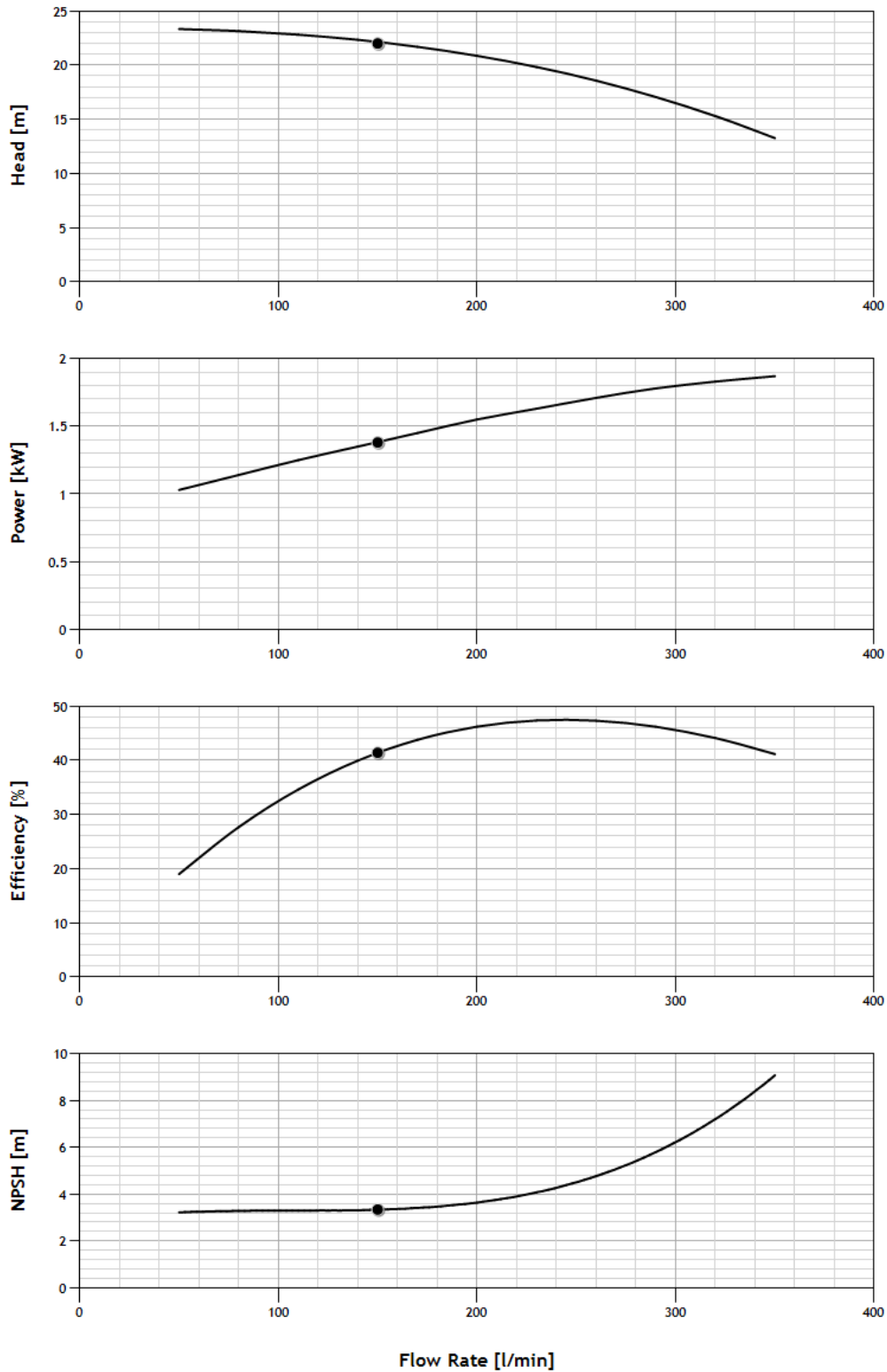


## Working Curves

Pump type: 4MA32-250A

|            |            |
|------------|------------|
| Curv n°:   | 4MA32-250A |
| Date:      | 9/23/2025  |
| Pump Speed | 1450 rpm   |

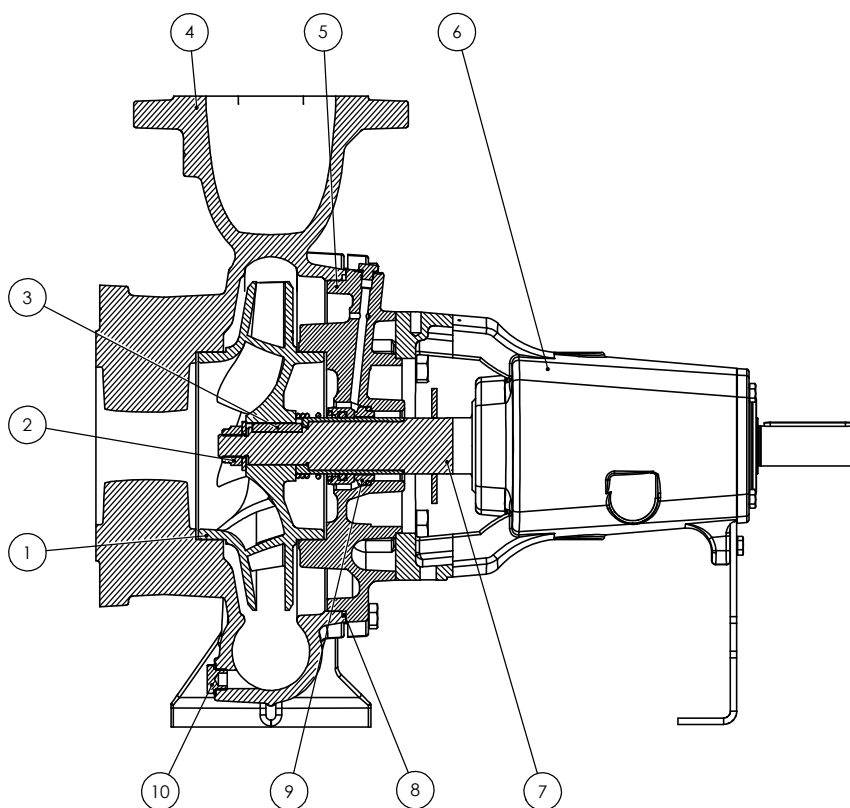
Q (l/min) 150 | H (m) 22 | Power [kW] 1.38 | Efficiency % 41.39 | NPSH (m) 3.34



MEI  $\geq 0.4$  (regulation EU N. 547/2012)  
Tolerances according to UNI ISO 9906 grade 3B

# MA-4MA Series

## Models list and materials

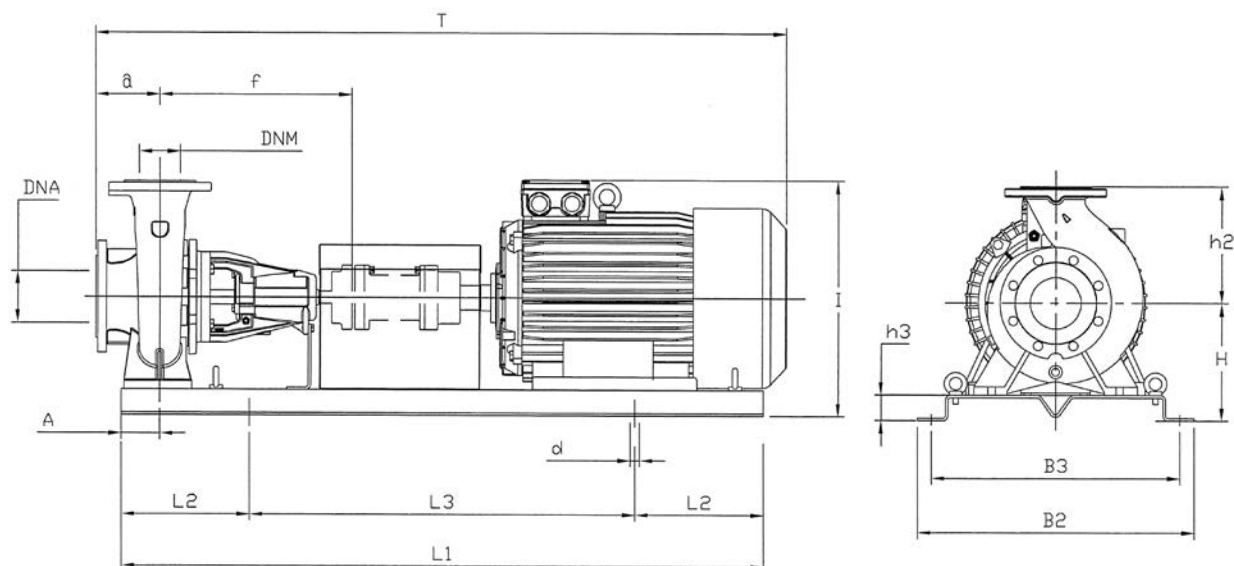


| POS.<br>N. | DENOMINATION                        | VERSION                                                             | MATERIAL                                               | REFERENCE STANDARDS                                              |                                            |
|------------|-------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|
|            |                                     |                                                                     |                                                        | EUROPE                                                           | USA                                        |
| 1          | <b>Impeller</b>                     | Standard<br>B<br>X                                                  | Cast iron G20<br>Bronze<br>Stainless steel             | GJL-200 (JL1030)<br>CuSn10-C (CC480K)<br>X5CrNiMo17-12-2/ 1.4401 | ASTM Class 30<br>UNS C90700<br>AISI 316    |
| 2          | <b>Impeller lock nut and washer</b> |                                                                     | Stainless steel                                        | X5CrNiMo17-12-2/ 1.4401                                          | AISI 316                                   |
| 3          | <b>Impeller key</b>                 |                                                                     | Stainless steel                                        | X5CrNiMo17-12-2/ 1.4401                                          | AISI 316                                   |
| 4          | <b>Volute casing</b>                | Standard for models up to 80-200<br>Standard from model 80-250<br>X | Cast iron G20<br>Cast iron G25<br>Stainless steel      | GJL-200 (JL1030)<br>GJL-250 (JL1040)<br>X5CrNiMo17-12-2/ 1.4401  | ASTM Class 30<br>ASTM Class 35<br>AISI 316 |
| 5          | <b>Casing cover</b>                 | Standard<br>X                                                       | Cast iron G20<br>Stainless steel                       | GJL-200 (JL1030)<br>X5CrNiMo17-12-2/ 1.4401                      | ASTM Class 30<br>AISI 316                  |
| 6          | <b>Bracket</b>                      |                                                                     | Cast iron G20                                          | GJL-200 (JL1030)                                                 | ASTM Class 30                              |
| 7          | <b>Shaft</b>                        |                                                                     | Stainless steel                                        | X5CrNiMo17-12-2/ 1.4401                                          | AISI 316                                   |
| 8          | <b>O-ring</b>                       | Standard<br>E<br>V                                                  | NBR<br>EPDM<br>FKM                                     |                                                                  |                                            |
| 9          | <b>Mechanical seal</b>              |                                                                     | (Search for the material in the mechanical seal table) |                                                                  |                                            |
| 10         | <b>Fill and drain plugs</b>         | Standard<br>X                                                       | Brass<br>Stainless steel                               | CU ZN 40 PB2 UNI 5705/65<br>X5CrNiMo17-12-2/ 1.4401              | C37700<br>AISI 316                         |

# MA-4MA Series-Mechanical seal and bearings

| MECHANICAL SEAL                                                                   | PUMP MODEL                                                                                                                                                                                                                                                                                                                                                                                                 | SHAFT Ø |                                                                    | STANDARD MATERIAL             | OPTIONAL                       |                               |                    |                   |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------------------------------------------------------------|-------------------------------|--------------------------------|-------------------------------|--------------------|-------------------|
|  | MA32-160C, MA32-160B, MA32-160A, MA40-125C, MA40-125B, MA40-125A                                                                                                                                                                                                                                                                                                                                           | 20mm    | <i>Rotating face</i><br><i>Stationary face</i><br><i>Elastomer</i> | Ceramic<br>Graphite<br>NBR    | Ceramic<br>Graphite<br>EPDM    | -<br>-<br>-                   | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |
|                                                                                   | MA40-250BM, MA40-250AM                                                                                                                                                                                                                                                                                                                                                                                     | 28mm    | <i>Rotating face</i><br><i>Stationary face</i><br><i>Elastomer</i> | Ceramic<br>Graphite<br>EPDM   | -<br>-<br>-                    | -<br>-<br>-                   | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |
|                                                                                   | MA32-200C, MA32-200B, MA32-200A, MA32-250C, MA32-250B, MA32-250A, MA40-160B, MA40-160A, MA40-200B, MA40-200A, MA40-250C, MA40-250B, MA40-250A, MA50-125B, MA50-125A, MA50-160B, MA50-160A, MA50-200C, MA50-200B, MA50-200A, MA50-250C, MA50-250B, MA50-250A, MA65-125B, MA65-125A, MA65-160C, MA65-160B, MA65-160A, MA65-200C, MA65-200B, MA65-200A, MA80-160E, MA80-160D, MA80-160C, MA80-160B, MA80-160A | 28mm    | <i>Rotating face</i><br><i>Stationary face</i><br><i>Elastomer</i> | Ceramic<br>Graphite<br>NBR    | Ceramic<br>Graphite<br>EPDM    | Ceramic<br>Graphite<br>FKM    | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |
|                                                                                   | 4MA50-315C, 4MA50-315B, 4MA50-315A, MA65-250B, MA65-250A, 4MA65-315CM, 4MA65-315BM, 4MA65-315AM, MA80-200B, MA80-200A, 4MA80-315B, 4MA80-315A, 4MA100-315                                                                                                                                                                                                                                                  | 40mm    | <i>Rotating face</i><br><i>Stationary face</i><br><i>Elastomer</i> | CrNi-steel<br>Graphite<br>NBR | CrNi-steel<br>Graphite<br>EPDM | CrNi-steel<br>Graphite<br>FKM | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |
|                                                                                   | MA50-315DN, MA50-315CN, MA50-315BN, MA50-315AN, MA65-315CN, MA65-315BN, MA65-315AN, MA80-315BN, MA80-315AN                                                                                                                                                                                                                                                                                                 | 40mm    | <i>Rotating face</i><br><i>Stationary face</i><br><i>Elastomer</i> | SiC<br>SiC<br>EPDM            | -<br>-<br>-                    | -<br>-<br>-                   | -<br>-<br>-        | SiC<br>SiC<br>FKM |
|                                                                                   | MA80-250B, MA80-250A, MA100-200B, MA100-200A, MA100-250C, MA100-250B, MA100-250A, 4MA100-250E, 4MA125-250B, 4MA125-250A                                                                                                                                                                                                                                                                                    | 45mm    | <i>Rotating face</i><br><i>Stationary face</i><br><i>Elastomer</i> | CrNi-steel<br>Graphite<br>NBR | CrNi-steel<br>Graphite<br>EPDM | CrNi-steel<br>Graphite<br>FKM | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |
|                                                                                   | 4MA100-400C, 4MA100-400B, 4MA100-400A, 4MA125-315C, 4MA125-315B, 4MA125-315A, 4MA125-400C, 4MA125-400B, 4MA125-400A, 4MA150-315C, 4MA150-315B, 4MA150-315A, 4MA150-400B, 4MA150-400A                                                                                                                                                                                                                       | 55mm    | <i>Rotating face</i><br><i>Stationary face</i><br><i>Elastomer</i> | Graphite<br>SiC<br>FKM        | -<br>-<br>-                    | -<br>-<br>-                   | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |
|                                                                                   | 4MA200-315D, 4MA200-315C, 4MA200-315B, 4MA200-315A, 4MA200-400C, 4MA200-400B, 4MA200-400A, 4MA250-315C, 4MA250-315B, 4MA250-315A, 4MA250-400D, 4MA250-400C, 4MA250-400B, 4MA250-400A                                                                                                                                                                                                                       | 70mm    | <i>Rotating face</i><br><i>Stationary face</i><br><i>Elastomer</i> | Graphite<br>SiC<br>FKM        | -<br>-<br>-                    | -<br>-<br>-                   | SiC<br>SiC<br>EPDM | SiC<br>SiC<br>FKM |

| PUMP BEARINGS                                                                       | PUMP MODEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | TYPE       |            |
|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|
|  | MA32-160C, MA32-160B, MA32-160A, MA32-200C, MA32-200B, MA32-200A, MA32-250C, MA32-250B, MA32-250A, MA40-125C, MA40-125B, MA40-125A, MA40-160B, MA40-160A, MA40-200B, MA40-200A, MA40-250C, MA40-250B, MA40-250A, MA40-250BM, MA40-250AM, MA50-125B, MA50-125A, MA50-160B, MA50-160A, MA50-200C, MA50-200B, MA50-200A, MA50-250C, MA50-250B, MA50-250A, MA65-125B, MA65-125A, MA65-160C, MA65-160B, MA65-160A, MA65-200C, MA65-200B, MA65-200A, MA80-160E, MA80-160D, MA80-160C, MA80-160B, MA80-160A | 6306-ZZ C3 | 6306-ZZ C3 |
|                                                                                     | 4MA50-315, MA65-250B, MA65-250A, 4MA65-315CM, 4MA65-315BM, 4MA65-315AM, MA80-200B, MA80-200A, 4MA80-315B, 4MA80-315A, 4MA100-315C, 4MA100-315B, 4MA100-315A                                                                                                                                                                                                                                                                                                                                          | 3208-ZZ C3 | 3208-ZZ C3 |
|                                                                                     | MA50-315DN, MA50-315CN, MA50-315BN, MA50-315AN, MA65-315CN, MA65-315BN, MA65-315AN, MA80-250B, MA80-250A, MA80-315BN, MA80-315AN, MA100-200B, MA100-200A, MA100-250C, MA100-250B, MA100-250A, 4MA100-250E, 4MA125-250B, 4MA125-250A                                                                                                                                                                                                                                                                  | 6209-ZZ C3 | 6309-ZZ C3 |
|                                                                                     | 4MA100-400C, 4MA100-400B, 4MA100-400A, 4MA125-315C, 4MA125-315B, 4MA125-315A, 4MA125-400C, 4MA125-400B, 4MA125-400A, 4MA150-315C, 4MA150-315B, 4MA150-315A, 4MA150-400A, 4MA150-400B                                                                                                                                                                                                                                                                                                                 | 6211-ZZ C3 | 6311-ZZ C3 |
|                                                                                     | 4MA200-315D, 4MA200-315C, 4MA200-315B, 4MA200-315A, 4MA200-400C, 4MA200-400B, 4MA200-400A, 4MA250-315C, 4MA250-315B, 4MA250-315A, 4MA250-400D, 4MA250-400C, 4MA250-400B, 4MA250-400A                                                                                                                                                                                                                                                                                                                 | 6313-ZZ C3 | 6313-ZZ C3 |



| TYPE     | kW   | Motor Size | DIMENSIONS (mm) |     |     |     |     |     |    |      |     |     |     |     |    |    |      |     |       |  |
|----------|------|------------|-----------------|-----|-----|-----|-----|-----|----|------|-----|-----|-----|-----|----|----|------|-----|-------|-------------------------------------------------------------------------------------|
|          |      |            | DNA             | DNM | a   | f   | H   | h2  | h3 | L1   | L2  | L3  | B2  | B3  | A  | d  | T    | I   |       |                                                                                     |
| 32-160C  | 0,37 | 71M        | 50              | 32  | 80  | 360 | 182 | 160 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 342 | 59,4  |                                                                                     |
| 32-160B  | 0,37 | 71M        |                 |     | 80  | 360 | 182 | 160 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 342 | 59,4  |                                                                                     |
| 32-160A  | 0,55 | 80M        |                 |     | 80  | 360 | 182 | 160 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 342 | 59,1  |                                                                                     |
| 32-200C  | 0,75 | 80M        |                 |     | 80  | 360 | 210 | 180 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 390 | 75,1  |                                                                                     |
| 32-200B  | 1,1  | 90S        |                 |     | 80  | 360 | 210 | 180 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 855  | 390 | 88,1  |                                                                                     |
| 32-200A  | 1,1  | 90S        |                 |     | 80  | 360 | 210 | 180 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 855  | 390 | 88,1  |                                                                                     |
| 32-250C  | 1,5  | 90S        |                 |     | 100 | 360 | 230 | 225 | 50 | 1000 | 170 | 660 | 450 | 400 | 75 | 22 | 1025 | 455 | 106,7 |                                                                                     |
| 32-250B  | 1,5  | 90S        |                 |     | 100 | 360 | 230 | 225 | 50 | 1000 | 170 | 660 | 450 | 400 | 75 | 22 | 1025 | 455 | 106,7 |                                                                                     |
| 32-250A  | 2,2  | 100L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1000 | 170 | 660 | 450 | 400 | 75 | 22 | 1025 | 455 | 112,7 |                                                                                     |
| 40-125C  | 0,37 | 71M        | 65              | 40  | 80  | 360 | 162 | 140 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 302 | 59,5  |                                                                                     |
| 40-125B  | 0,37 | 71M        |                 |     | 80  | 360 | 162 | 140 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 302 | 59,5  |                                                                                     |
| 40-125A  | 0,55 | 80M        |                 |     | 80  | 360 | 162 | 140 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 307 | 59,2  |                                                                                     |
| 40-160B  | 0,55 | 80M        |                 |     | 80  | 360 | 182 | 160 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 342 | 62,2  |                                                                                     |
| 40-160A  | 0,75 | 80M        |                 |     | 80  | 360 | 182 | 160 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 342 | 74,2  |                                                                                     |
| 40-160AP | 0,75 | 80M        |                 |     | 80  | 360 | 182 | 160 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 820  | 342 | 74,2  |                                                                                     |
| 40-160AP | 1,1  | 90S        |                 |     | 80  | 360 | 182 | 160 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 855  | 342 | 87,2  |                                                                                     |
| 40-200B  | 1,1  | 90S        |                 |     | 100 | 360 | 210 | 180 | 50 | 900  | 150 | 600 | 390 | 350 | 60 | 18 | 940  | 390 | 93,8  |                                                                                     |
| 40-200A  | 1,1  | 90S        |                 |     | 100 | 360 | 210 | 180 | 50 | 900  | 150 | 600 | 390 | 350 | 60 | 18 | 940  | 390 | 93,8  |                                                                                     |
| 40-200A  | 1,5  | 90S        |                 |     | 100 | 360 | 210 | 180 | 50 | 900  | 150 | 600 | 390 | 350 | 60 | 18 | 940  | 390 | 98,8  |                                                                                     |
| 40-200AP | 1,1  | 90S        |                 |     | 100 | 360 | 210 | 180 | 50 | 900  | 150 | 600 | 390 | 350 | 60 | 18 | 940  | 390 | 93,8  |                                                                                     |
| 40-200AP | 1,5  | 90S        |                 |     | 100 | 360 | 210 | 180 | 50 | 900  | 150 | 600 | 390 | 350 | 60 | 18 | 940  | 390 | 98,8  |                                                                                     |
| 40-250C  | 1,5  | 90S        |                 |     | 100 | 360 | 230 | 225 | 50 | 1000 | 170 | 660 | 450 | 400 | 75 | 22 | 1025 | 455 | 108,3 |                                                                                     |
| 40-250B  | 2,2  | 100L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1000 | 170 | 660 | 450 | 400 | 75 | 22 | 1025 | 455 | 114,3 |                                                                                     |
| 40-250A  | 2,2  | 100L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1000 | 170 | 660 | 450 | 400 | 75 | 22 | 1025 | 455 | 114,3 |                                                                                     |
| 50-125B  | 0,55 | 80M        | 65              | 50  | 100 | 360 | 182 | 160 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 840  | 342 | 62,1  |                                                                                     |
| 50-125A  | 0,75 | 80M        |                 |     | 100 | 360 | 182 | 160 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 840  | 342 | 74,1  |                                                                                     |
| 50-160B  | 0,75 | 80M        |                 |     | 100 | 360 | 210 | 180 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 840  | 390 | 78,6  |                                                                                     |
| 50-160A  | 1,1  | 90S        |                 |     | 100 | 360 | 210 | 180 | 50 | 800  | 130 | 540 | 360 | 320 | 60 | 18 | 875  | 390 | 91,6  |                                                                                     |
| 50-200C  | 1,1  | 90S        |                 |     | 100 | 360 | 210 | 200 | 50 | 900  | 150 | 600 | 390 | 350 | 60 | 18 | 940  | 410 | 97,2  |                                                                                     |
| 50-200B  | 1,5  | 90S        |                 |     | 100 | 360 | 210 | 200 | 50 | 900  | 150 | 600 | 390 | 350 | 60 | 18 | 940  | 410 | 102,2 |                                                                                     |
| 50-200A  | 1,5  | 90S        |                 |     | 100 | 360 | 210 | 200 | 50 | 900  | 150 | 600 | 390 | 350 | 60 | 18 | 940  | 410 | 102,2 |                                                                                     |
| 50-250C  | 2,2  | 100L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1000 | 170 | 660 | 450 | 400 | 75 | 22 | 1025 | 455 | 118,2 |                                                                                     |
| 50-250B  | 3    | 100L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1000 | 170 | 660 | 450 | 400 | 75 | 22 | 1025 | 455 | 122,2 |                                                                                     |
| 50-250A  | 4    | 112M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1000 | 170 | 660 | 450 | 400 | 75 | 22 | 1025 | 455 | 128,2 |                                                                                     |
| 50-315C  | 5,5  | 132S       | 80              |     | 125 | 470 | 275 | 280 | 50 | 1120 | 190 | 740 | 490 | 440 | 75 | 22 | 1170 | 555 | 200,1 |                                                                                     |
| 50-315B  | 7,5  | 132M       |                 |     | 125 | 470 | 275 | 280 | 50 | 1120 | 190 | 740 | 490 | 440 | 75 | 22 | 1200 | 555 | 186,6 |                                                                                     |
| 50-315A  | 11   | 160M       |                 |     | 125 | 470 | 275 | 280 | 50 | 1250 | 205 | 840 | 540 | 490 | 75 | 22 | 1303 | 555 | 260,1 |                                                                                     |

| TYPE     | kW   | Motor Size | DIMENSIONS (mm) |     |     |     |     |     |    |      |     |      |     |     |     |    |      |     | Kg     |
|----------|------|------------|-----------------|-----|-----|-----|-----|-----|----|------|-----|------|-----|-----|-----|----|------|-----|--------|
|          |      |            | DNA             | DNM | a   | f   | H   | h2  | h3 | L1   | L2  | L3   | B2  | B3  | A   | d  | T    | I   |        |
| 65-125B  | 0,75 | 80M        | 80              | 65  | 100 | 360 | 210 | 180 | 50 | 800  | 130 | 540  | 360 | 320 | 60  | 18 | 840  | 390 | 80,4   |
| 65-125A  | 1,1  | 90S        |                 |     | 100 | 360 | 210 | 180 | 50 | 800  | 130 | 540  | 360 | 320 | 60  | 18 | 875  | 390 | 93,4   |
| 65-160C  | 1,5  | 90S        |                 |     | 100 | 360 | 210 | 200 | 50 | 900  | 150 | 600  | 390 | 350 | 60  | 18 | 940  | 410 | 105,5  |
| 65-160B  | 1,5  | 90S        |                 |     | 100 | 360 | 210 | 200 | 50 | 900  | 150 | 600  | 390 | 350 | 60  | 18 | 940  | 410 | 105,5  |
| 65-160A  | 2,2  | 100L       |                 |     | 100 | 360 | 210 | 200 | 50 | 900  | 150 | 600  | 390 | 350 | 60  | 18 | 940  | 410 | 111,5  |
| 65-200C  | 2,2  | 100L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1120 | 190 | 740  | 490 | 440 | 75  | 22 | 1145 | 455 | 124,8  |
| 65-200B  | 3    | 100L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1120 | 190 | 740  | 490 | 440 | 75  | 22 | 1145 | 455 | 128,8  |
| 65-200A  | 3    | 100L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1120 | 190 | 740  | 490 | 440 | 75  | 22 | 1145 | 455 | 128,8  |
| 65-250B  | 4    | 112M       |                 |     | 100 | 470 | 250 | 250 | 50 | 1120 | 190 | 740  | 490 | 440 | 90  | 22 | 1130 | 500 | 159,0  |
| 65-250B  | 5,5  | 132S       |                 |     | 100 | 470 | 250 | 250 | 50 | 1120 | 190 | 740  | 490 | 440 | 90  | 22 | 1175 | 500 | 183,0  |
| 65-250A  | 5,5  | 132S       |                 |     | 100 | 470 | 250 | 250 | 50 | 1120 | 190 | 740  | 490 | 440 | 90  | 22 | 1175 | 500 | 183,0  |
| 65-315CM | 7,5  | 132M       |                 |     | 125 | 470 | 275 | 280 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1285 | 555 | 194,0  |
| 65-315BM | 11   | 160M       | 100             | 80  | 125 | 470 | 275 | 280 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1343 | 555 | 262,5  |
| 65-315AM | 11   | 160M       |                 |     | 125 | 470 | 275 | 280 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1343 | 555 | 262,5  |
| 80-160E  | 1,1  | 90S        |                 |     | 125 | 360 | 230 | 225 | 50 | 1000 | 170 | 660  | 450 | 400 | 75  | 22 | 1050 | 455 | 115,1  |
| 80-160D  | 1,5  | 90S        |                 |     | 125 | 360 | 230 | 225 | 50 | 1000 | 170 | 660  | 450 | 400 | 75  | 22 | 1050 | 455 | 120,1  |
| 80-160C  | 1,5  | 90S        |                 |     | 125 | 360 | 230 | 225 | 50 | 1000 | 170 | 660  | 450 | 400 | 75  | 22 | 1050 | 455 | 120,1  |
| 80-160B  | 2,2  | 100L       |                 |     | 125 | 360 | 230 | 225 | 50 | 1000 | 170 | 660  | 450 | 400 | 75  | 22 | 1050 | 455 | 126,1  |
| 80-160A  | 3    | 100L       |                 |     | 125 | 360 | 230 | 225 | 50 | 1000 | 170 | 660  | 450 | 400 | 75  | 22 | 1050 | 455 | 130,1  |
| 80-200B  | 4    | 112M       |                 |     | 125 | 470 | 230 | 250 | 50 | 1120 | 190 | 740  | 490 | 440 | 75  | 22 | 1170 | 480 | 157,8  |
| 80-200A  | 5,5  | 132S       |                 |     | 125 | 470 | 230 | 250 | 50 | 1120 | 190 | 740  | 490 | 440 | 75  | 22 | 1200 | 480 | 181,8  |
| 80-250B  | 5,5  | 132S       |                 |     | 125 | 470 | 250 | 280 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1285 | 530 | 203,8  |
| 80-250A  | 7,5  | 132M       |                 |     | 125 | 470 | 250 | 280 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1285 | 530 | 190,3  |
| 80-315B  | 11   | 160M       |                 |     | 125 | 470 | 300 | 315 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1343 | 615 | 273,8  |
| 80-315A  | 15   | 160L       |                 |     | 125 | 470 | 300 | 315 | 50 | 1400 | 230 | 940  | 610 | 550 | 90  | 26 | 1435 | 615 | 305,8  |
| 100-200B | 5,5  | 132S       | 125             | 100 | 125 | 470 | 250 | 280 | 50 | 1120 | 190 | 740  | 490 | 440 | 90  | 22 | 1200 | 530 | 205,8  |
| 100-200A | 7,5  | 132M       |                 |     | 125 | 470 | 250 | 280 | 50 | 1120 | 190 | 740  | 490 | 440 | 90  | 22 | 1240 | 530 | 192,3  |
| 100-250E | 7,5  | 132M       |                 |     | 140 | 470 | 275 | 280 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1300 | 555 | 205,3  |
| 100-250D | 7,5  | 132M       |                 |     | 140 | 470 | 275 | 280 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1300 | 555 | 205,3  |
| 100-250D | 11   | 160M       |                 |     | 140 | 470 | 275 | 280 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1358 | 555 | 273,8  |
| 100-250A | 11   | 160M       |                 |     | 140 | 470 | 275 | 280 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1358 | 555 | 273,8  |
| 100-315B | 15   | 160L       |                 |     | 140 | 470 | 300 | 315 | 50 | 1400 | 230 | 940  | 610 | 550 | 90  | 26 | 1450 | 615 | 327,7  |
| 100-315A | 18,5 | 180M       |                 |     | 140 | 470 | 300 | 315 | 50 | 1400 | 230 | 940  | 610 | 550 | 90  | 26 | 1450 | 615 | 348,3  |
| 100-400C | 22   | 180L       |                 |     | 140 | 530 | 365 | 355 | 85 | 1600 | 270 | 1060 | 660 | 600 | 110 | 26 | 1630 | 720 | 469,5  |
| 100-400B | 30   | 200L       |                 |     | 140 | 530 | 365 | 355 | 85 | 1600 | 270 | 1060 | 660 | 600 | 110 | 26 | 1630 | 720 | 540,8  |
| 100-400A | 37   | 225S       |                 |     | 140 | 530 | 365 | 355 | 85 | 1600 | 270 | 1060 | 660 | 600 | 110 | 26 | 1630 | 720 | 554,3  |
| 125-250B | 11   | 160M       | 150             | 125 | 140 | 470 | 300 | 355 | 50 | 1250 | 205 | 840  | 540 | 490 | 90  | 22 | 1358 | 655 | 308,1  |
| 125-250A | 15   | 160L       |                 |     | 140 | 470 | 300 | 355 | 50 | 1400 | 230 | 940  | 610 | 550 | 90  | 26 | 1450 | 655 | 340,1  |
| 125-315C | 22   | 180L       |                 |     | 140 | 530 | 365 | 355 | 85 | 1600 | 270 | 1060 | 660 | 600 | 110 | 26 | 1630 | 720 | 464,4  |
| 125-315B | 30   | 200L       |                 |     | 140 | 530 | 365 | 355 | 85 | 1600 | 270 | 1060 | 660 | 600 | 110 | 26 | 1630 | 720 | 535,8  |
| 125-315A | 37   | 225S       |                 |     | 140 | 530 | 365 | 355 | 85 | 1600 | 270 | 1060 | 660 | 600 | 110 | 26 | 1630 | 720 | 549,3  |
| 125-400C | 45   | 225M       |                 |     | 140 | 530 | 400 | 400 | 85 | 1600 | 270 | 1060 | 660 | 600 | 110 | 26 | 1630 | 800 | 659,2  |
| 125-400B | 55   | 250M       |                 |     | 140 | 530 | 400 | 400 | 85 | 1600 | 270 | 1060 | 660 | 600 | 110 | 26 | 1630 | 800 | 756,0  |
| 125-400A | 75   | 280S       |                 |     | 140 | 530 | 400 | 400 | 85 | 1800 | 300 | 1200 | 730 | 670 | 110 | 26 | 1830 | 805 | 939,4  |
| 150-315D | 30   | 200L       | 200             | 150 | 160 | 530 | 365 | 400 | 85 | 1800 | 300 | 1200 | 730 | 670 | 110 | 26 | 1850 | 765 | 570,7  |
| 150-315C | 37   | 225S       |                 |     | 160 | 530 | 365 | 400 | 85 | 1800 | 300 | 1200 | 730 | 670 | 110 | 26 | 1850 | 765 | 584,2  |
| 150-315B | 45   | 225M       |                 |     | 160 | 530 | 365 | 400 | 85 | 1800 | 300 | 1200 | 730 | 670 | 110 | 26 | 1850 | 765 | 672,1  |
| 150-315A | 55   | 250M       |                 |     | 160 | 530 | 365 | 400 | 85 | 1800 | 300 | 1200 | 730 | 670 | 110 | 26 | 1850 | 765 | 768,9  |
| 150-400C | 75   | 280S       |                 |     | 160 | 530 | 400 | 450 | 85 | 1800 | 300 | 1200 | 730 | 670 | 110 | 26 | 1850 | 850 | 951,4  |
| 150-400B | 75   | 280S       |                 |     | 160 | 530 | 400 | 450 | 85 | 1800 | 300 | 1200 | 730 | 670 | 110 | 26 | 1850 | 850 | 962,8  |
| 150-400A | 90   | 280M       |                 |     | 160 | 530 | 400 | 450 | 85 | 1800 | 300 | 1200 | 730 | 670 | 110 | 26 | 1850 | 850 | 1057,8 |