



# Technical data

|           |           |
|-----------|-----------|
| Date      | 9/23/2025 |
| Offer N.  | ---       |
| Pump Type | MA32-160B |
|           |           |

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

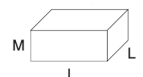
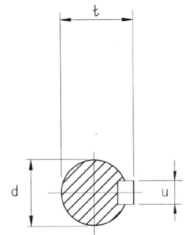
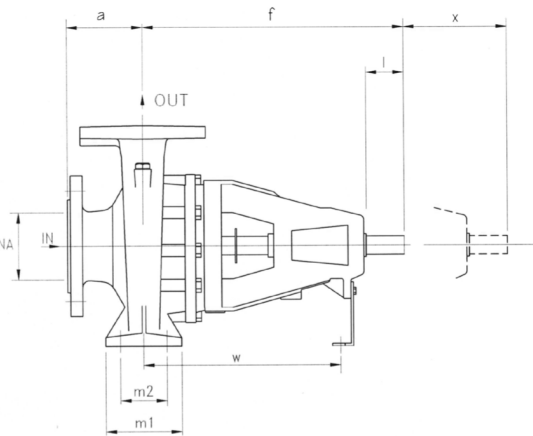
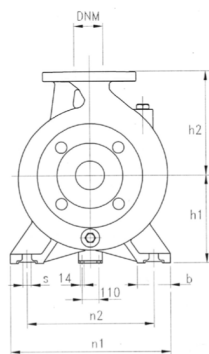
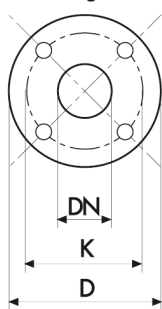
## Pump data

|                           |                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                | 6    | 7.5  | 9   | 12   | 15   | 18   | 21   | 24  |
|      |            | 0                | 100  | 125  | 150 | 200  | 250  | 300  | 350  | 400 |
|      |            | H (m)            |      |      |     |      |      |      |      |     |
| 2,2  | 90L        | 28               | 27.7 | 27.4 | 27  | 26.2 | 24.9 | 22.9 | 20.1 | 17  |

## Technical Sheet

flanges



| 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  | 80              | 360 | 132 | 160 | 100 | 70 | 240 | 190 | 14 | 50 | 50 | 24 | 27 | 8 | 100 | 260 | 535 | 320 | 445 | 38 |

## 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.

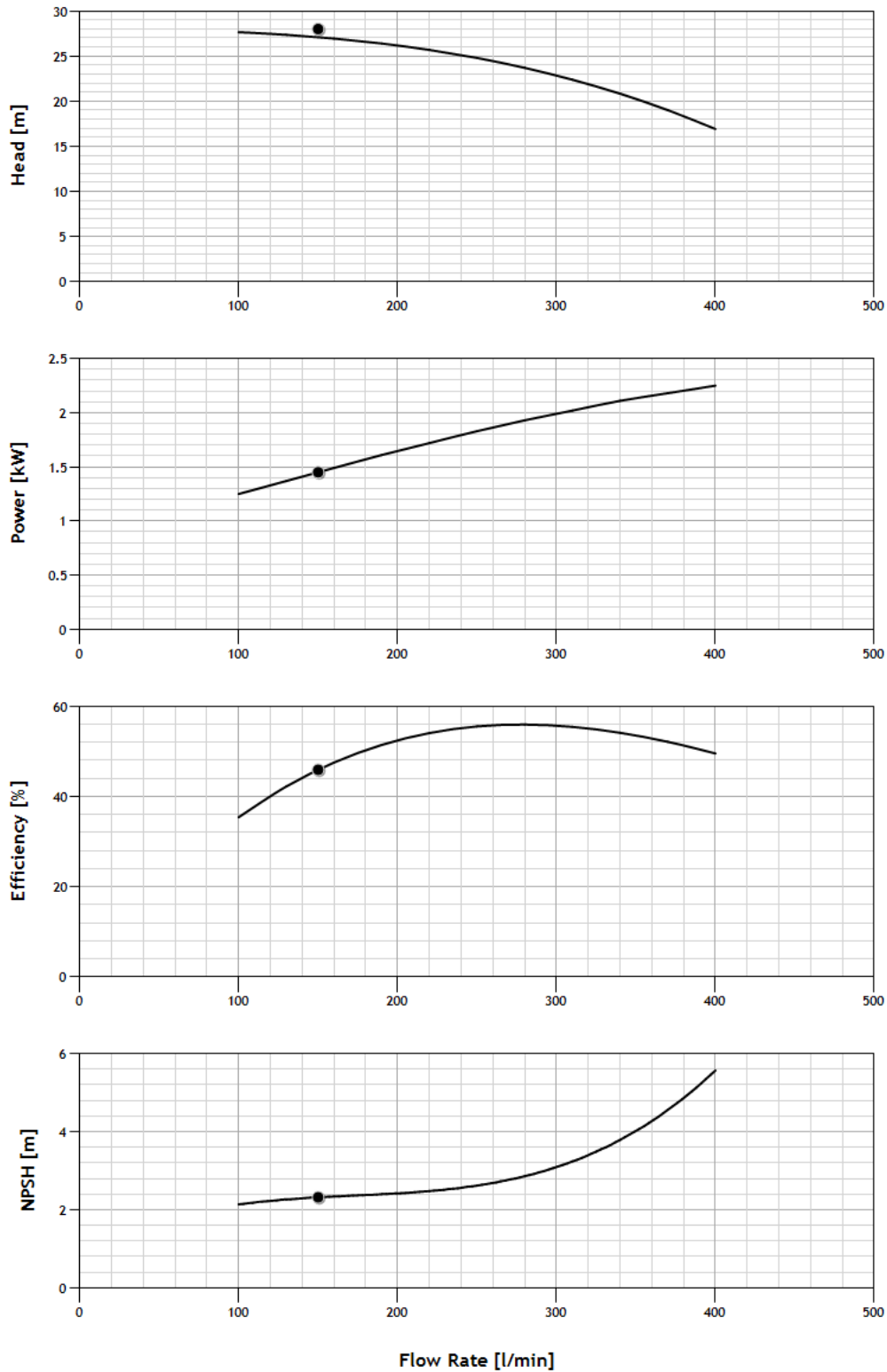


## Working Curves

Pump type: MA32-160B

|            |           |
|------------|-----------|
| Curv n°:   | MA32-160B |
| Date:      | 9/23/2025 |
| Pump Speed | 2900 rpm  |

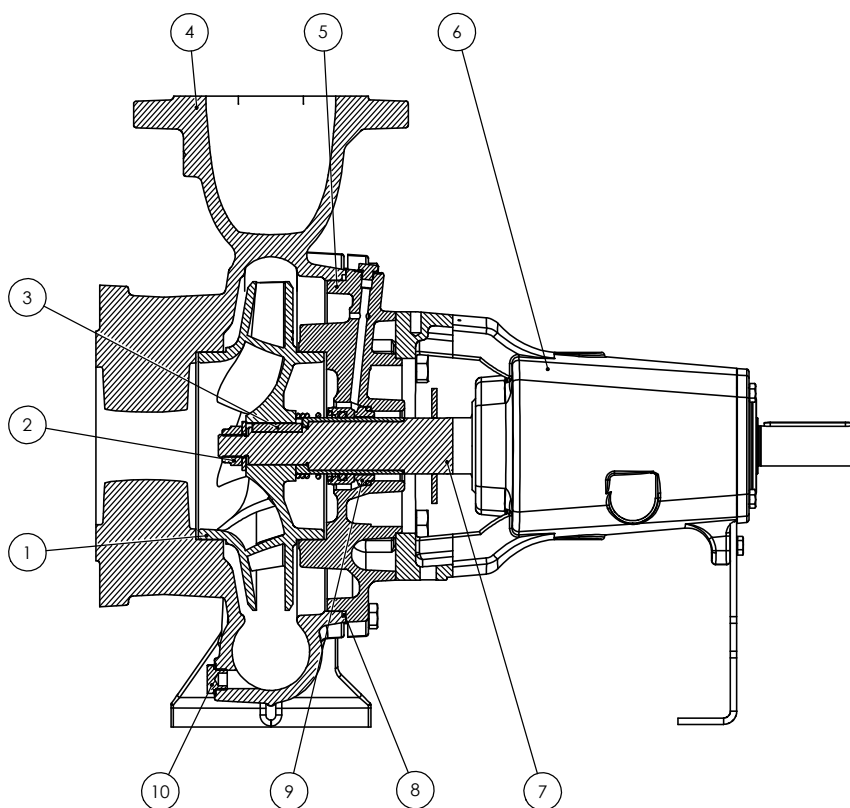
Q (l/min) 150 | H (m) 28 | Power [kW] 1.45 | Efficiency % 45.91 | NPSH (m) 2.32



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

# MA-4MA Series

## Models list and materials

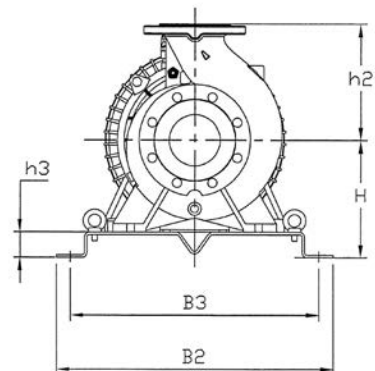
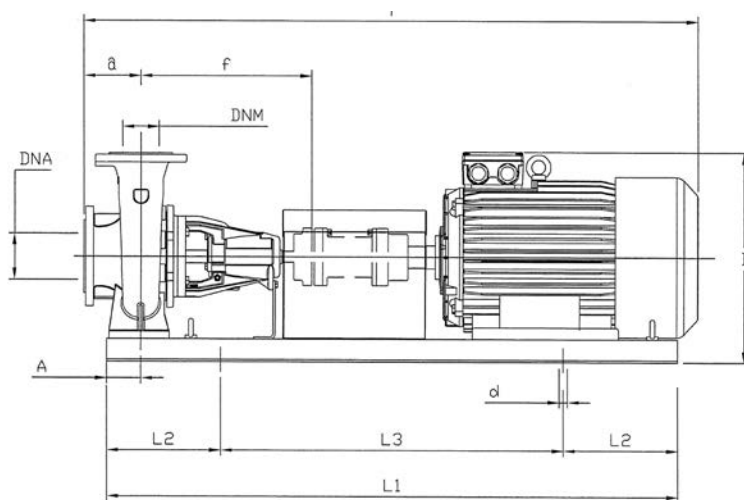


| POS.<br>N. | DENOMINATION                        | VERSION                                                             | MATERIAL                                               | REFERENCE STANDARDS                                              |                                            |
|------------|-------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------|
|            |                                     |                                                                     |                                                        | 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) |     |     |     |     |     |    |      |     |      |     |     |    |    |      |     | Kg    |
|-----------|------|------------|-----------------|-----|-----|-----|-----|-----|----|------|-----|------|-----|-----|----|----|------|-----|-------|
|           |      |            | DNA             | DNM | a   | f   | H   | h2  | h3 | L1   | L2  | L3   | B2  | B3  | A  | d  | T    | I   |       |
| 32-160C   | 1,5  | 90S        | 50              | 32  | 80  | 360 | 182 | 160 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 855  | 342 | 82,1  |
| 32-160B   | 2,2  | 90L        |                 |     | 80  | 360 | 182 | 160 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 920  | 342 | 87,7  |
| 32-160A   | 3    | 100L       |                 |     | 80  | 360 | 182 | 160 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 920  | 362 | 96,7  |
| 32-160A   | 4    | 112M       |                 |     | 80  | 360 | 182 | 160 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 940  | 375 | 104,7 |
| 32-200C   | 4    | 112M       |                 |     | 80  | 360 | 210 | 180 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 940  | 403 | 108,7 |
| 32-200B   | 5,5  | 132S       |                 |     | 80  | 360 | 210 | 180 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1020 | 433 | 116,1 |
| 32-200A   | 7,5  | 132S       |                 |     | 80  | 360 | 210 | 180 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1020 | 433 | 144,3 |
| 32-250C   | 11   | 160M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 207,3 |
| 32-250B   | 11   | 160M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 207,3 |
| 32-250A   | 15   | 160M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 219,3 |
| 40-125C   | 1,5  | 90S        | 65              | 40  | 80  | 360 | 162 | 140 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 855  | 317 | 82,2  |
| 40-125C   | 2,2  | 90L        |                 |     | 80  | 360 | 162 | 140 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 920  | 317 | 87,8  |
| 40-125B   | 2,2  | 90L        |                 |     | 80  | 360 | 162 | 140 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 920  | 317 | 87,8  |
| 40-125B   | 3    | 100L       |                 |     | 80  | 360 | 162 | 140 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 920  | 342 | 96,8  |
| 40-125A   | 3    | 100L       |                 |     | 80  | 360 | 162 | 140 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 920  | 342 | 96,8  |
| 40-160B   | 3    | 100L       |                 |     | 80  | 360 | 182 | 160 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 920  | 362 | 99,8  |
| 40-160B   | 4    | 112M       |                 |     | 80  | 360 | 182 | 160 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 940  | 375 | 107,8 |
| 40-160A   | 4    | 112M       |                 |     | 80  | 360 | 182 | 160 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 940  | 375 | 107,8 |
| 40-160A   | 5,5  | 132S       |                 |     | 80  | 360 | 182 | 160 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1020 | 405 | 115,2 |
| 40-160AP  | 5,5  | 132S       |                 |     | 80  | 360 | 182 | 160 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1020 | 405 | 115,2 |
| 40-200B   | 5,5  | 132S       |                 |     | 100 | 360 | 210 | 180 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1040 | 433 | 119,2 |
| 40-200B   | 7,5  | 132S       |                 |     | 100 | 360 | 210 | 180 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1040 | 433 | 147,4 |
| 40-200A   | 7,5  | 132S       |                 |     | 100 | 360 | 210 | 180 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1040 | 433 | 147,4 |
| 40-200A   | 11   | 160M       |                 |     | 100 | 360 | 210 | 180 | 50 | 1120 | 190 | 740  | 490 | 440 | 60 | 22 | 1168 | 475 | 198,4 |
| 40-200 AP | 7,5  | 132S       |                 |     | 100 | 360 | 210 | 180 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1040 | 433 | 147,4 |
| 40-200 AP | 11   | 160M       |                 |     | 100 | 360 | 210 | 180 | 50 | 1120 | 190 | 740  | 490 | 440 | 60 | 22 | 1168 | 475 | 198,4 |
| 40-250C   | 11   | 160M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 208,9 |
| 40-250B   | 11   | 160M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 208,9 |
| 40-250B   | 15   | 160M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 220,9 |
| 40-250A   | 15   | 160M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 220,9 |
| 40-250A   | 18,5 | 160L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 238,9 |
| 40-250BM  | 18,5 | 160L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 238,9 |
| 40-250AM  | 22   | 180M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 510 | 297,3 |
| 50-125B   | 3    | 100L       | 65              | 50  | 100 | 360 | 182 | 160 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 940  | 362 | 99,7  |
| 50-125A   | 4    | 112M       |                 |     | 100 | 360 | 182 | 160 | 50 | 900  | 150 | 600  | 390 | 350 | 60 | 18 | 960  | 375 | 107,7 |
| 50-160B   | 5,5  | 132S       |                 |     | 100 | 360 | 210 | 180 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1040 | 433 | 119,6 |
| 50-160A   | 7,5  | 132S       |                 |     | 100 | 360 | 210 | 180 | 50 | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1040 | 433 | 147,8 |
| 50-200C   | 11   | 160M       |                 |     | 100 | 360 | 210 | 200 | 50 | 1120 | 190 | 740  | 490 | 440 | 60 | 22 | 1168 | 475 | 201,8 |
| 50-200B   | 11   | 160M       |                 |     | 100 | 360 | 210 | 200 | 50 | 1120 | 190 | 740  | 490 | 440 | 60 | 22 | 1168 | 475 | 201,8 |
| 50-200A   | 15   | 160M       |                 |     | 100 | 360 | 210 | 200 | 50 | 1120 | 190 | 740  | 490 | 440 | 60 | 22 | 1168 | 475 | 213,8 |
| 50-250C   | 15   | 160M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 224,8 |
| 50-250B   | 18,5 | 160L       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 242,8 |
| 50-250A   | 22   | 180M       |                 |     | 100 | 360 | 230 | 225 | 50 | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 510 | 301,2 |
| 50-315DN  | 37   | 200L       |                 |     | 125 | 470 | 275 | 280 | 50 | 1400 | 230 | 940  | 610 | 550 | 75 | 26 | 1455 | 585 | 415,0 |
| 50-315CN  | 45   | 225M       | 80              | 50  | 125 | 470 | 275 | 280 | 50 | 1400 | 230 | 940  | 610 | 550 | 75 | 26 | 1500 | 605 | 465,8 |
| 50-315BN  | 55   | 250M       |                 |     | 125 | 470 | 310 | 280 | 85 | 1600 | 270 | 1060 | 660 | 600 | 75 | 26 | 1650 | 710 | 611,8 |
| 50-315AN  | 75   | 280S       |                 |     | 125 | 470 | 310 | 280 | 85 | 1800 | 300 | 1200 | 730 | 670 | 75 | 26 | 1850 | 770 | 762,6 |

| 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  | 5,5  | 132S       | 80              | 65  | 100 | 360 | 210 | 180 | 50  | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1040 | 433 | 121,4 |
| 65-125A  | 7,5  | 132S       |                 |     | 100 | 360 | 210 | 180 | 50  | 1000 | 170 | 660  | 450 | 400 | 60 | 22 | 1040 | 433 | 149,6 |
| 65-160C  | 11   | 160M       |                 |     | 100 | 360 | 210 | 200 | 50  | 1120 | 190 | 740  | 490 | 440 | 60 | 22 | 1168 | 475 | 205,1 |
| 65-160B  | 11   | 160M       |                 |     | 100 | 360 | 210 | 200 | 50  | 1120 | 190 | 740  | 490 | 440 | 60 | 22 | 1168 | 475 | 205,1 |
| 65-160A  | 15   | 160M       |                 |     | 100 | 360 | 210 | 200 | 50  | 1120 | 190 | 740  | 490 | 440 | 60 | 22 | 1168 | 475 | 217,1 |
| 65-200C  | 15   | 160M       |                 |     | 100 | 360 | 230 | 225 | 50  | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 227,5 |
| 65-200B  | 18,5 | 160L       |                 |     | 100 | 360 | 230 | 225 | 50  | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1275 | 495 | 245,5 |
| 65-200A  | 22   | 180M       |                 |     | 100 | 360 | 230 | 225 | 50  | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1290 | 510 | 303,3 |
| 65-250B  | 30   | 200L       |                 |     | 100 | 470 | 250 | 250 | 50  | 1400 | 230 | 940  | 610 | 550 | 90 | 26 | 1470 | 560 | 377,8 |
| 65-250A  | 37   | 200L       |                 |     | 100 | 470 | 250 | 250 | 50  | 1400 | 230 | 940  | 610 | 550 | 90 | 26 | 1470 | 560 | 397,8 |
| 65-315CN | 55   | 250M       |                 |     | 125 | 470 | 310 | 280 | 85  | 1600 | 270 | 1060 | 660 | 600 | 90 | 26 | 1645 | 710 | 614,2 |
| 65-315BN | 75   | 280S       |                 |     | 125 | 470 | 310 | 280 | 85  | 1800 | 300 | 1200 | 730 | 670 | 90 | 26 | 1835 | 770 | 765,0 |
| 65-315AN | 90   | 280M       |                 |     | 125 | 470 | 310 | 280 | 85  | 1800 | 300 | 1200 | 730 | 670 | 90 | 26 | 1835 | 770 | 839,2 |
| 80-160E  | 11   | 160M       | 100             | 80  | 125 | 360 | 230 | 225 | 50  | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1300 | 495 | 220,8 |
| 80-160D  | 11   | 160M       |                 |     | 125 | 360 | 230 | 225 | 50  | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1300 | 495 | 220,8 |
| 80-160C  | 15   | 160M       |                 |     | 125 | 360 | 230 | 225 | 50  | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1300 | 495 | 232,8 |
| 80-160B  | 18,5 | 160L       |                 |     | 125 | 360 | 230 | 225 | 50  | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1300 | 495 | 250,8 |
| 80-160A  | 22   | 180M       |                 |     | 125 | 360 | 230 | 225 | 50  | 1250 | 205 | 840  | 540 | 490 | 75 | 22 | 1315 | 510 | 308,7 |
| 80-200B  | 30   | 200L       |                 |     | 125 | 470 | 230 | 250 | 50  | 1400 | 230 | 940  | 610 | 550 | 75 | 26 | 1495 | 560 | 376,7 |
| 80-200A  | 37   | 200L       |                 |     | 125 | 470 | 230 | 250 | 50  | 1400 | 230 | 940  | 610 | 550 | 75 | 26 | 1495 | 560 | 396,7 |
| 80-250B  | 45   | 225M       |                 |     | 125 | 470 | 250 | 280 | 50  | 1400 | 230 | 940  | 610 | 550 | 90 | 26 | 1540 | 605 | 464,5 |
| 80-250A  | 55   | 250M       |                 |     | 125 | 470 | 285 | 280 | 85  | 1600 | 270 | 1060 | 660 | 600 | 90 | 26 | 1645 | 710 | 610,5 |
| 80-315BN | 90   | 280M       |                 |     | 125 | 470 | 335 | 315 | 85  | 1800 | 300 | 1200 | 730 | 670 | 90 | 26 | 1835 | 770 | 850,5 |
| 80-315AN | 110  | 315S       |                 |     | 125 | 470 | 405 | 315 | 120 | 2000 | 300 | 1400 | 790 | 750 | 90 | 22 | 2020 | 925 | 1233  |
| 100-200B | 45   | 225M       | 125             | 100 | 125 | 470 | 250 | 280 | 50  | 1400 | 230 | 940  | 610 | 550 | 90 | 26 | 1540 | 605 | 471,5 |
| 100-200A | 55   | 250M       |                 |     | 125 | 470 | 285 | 280 | 85  | 1600 | 270 | 1060 | 660 | 600 | 90 | 26 | 1645 | 710 | 617,5 |
| 100-250C | 55   | 250M       |                 |     | 140 | 470 | 310 | 280 | 85  | 1600 | 270 | 1060 | 660 | 600 | 90 | 26 | 1660 | 710 | 625,5 |
| 100-250C | 75   | 280S       |                 |     | 140 | 470 | 310 | 280 | 85  | 1800 | 300 | 1200 | 730 | 670 | 90 | 26 | 1850 | 770 | 776,3 |
| 100-250B | 75   | 280S       |                 |     | 140 | 470 | 310 | 280 | 85  | 1800 | 300 | 1200 | 730 | 670 | 90 | 26 | 1850 | 770 | 776,3 |
| 100-250A | 90   | 280M       |                 |     | 140 | 470 | 310 | 280 | 85  | 1800 | 300 | 1200 | 730 | 670 | 90 | 26 | 1850 | 770 | 850,5 |