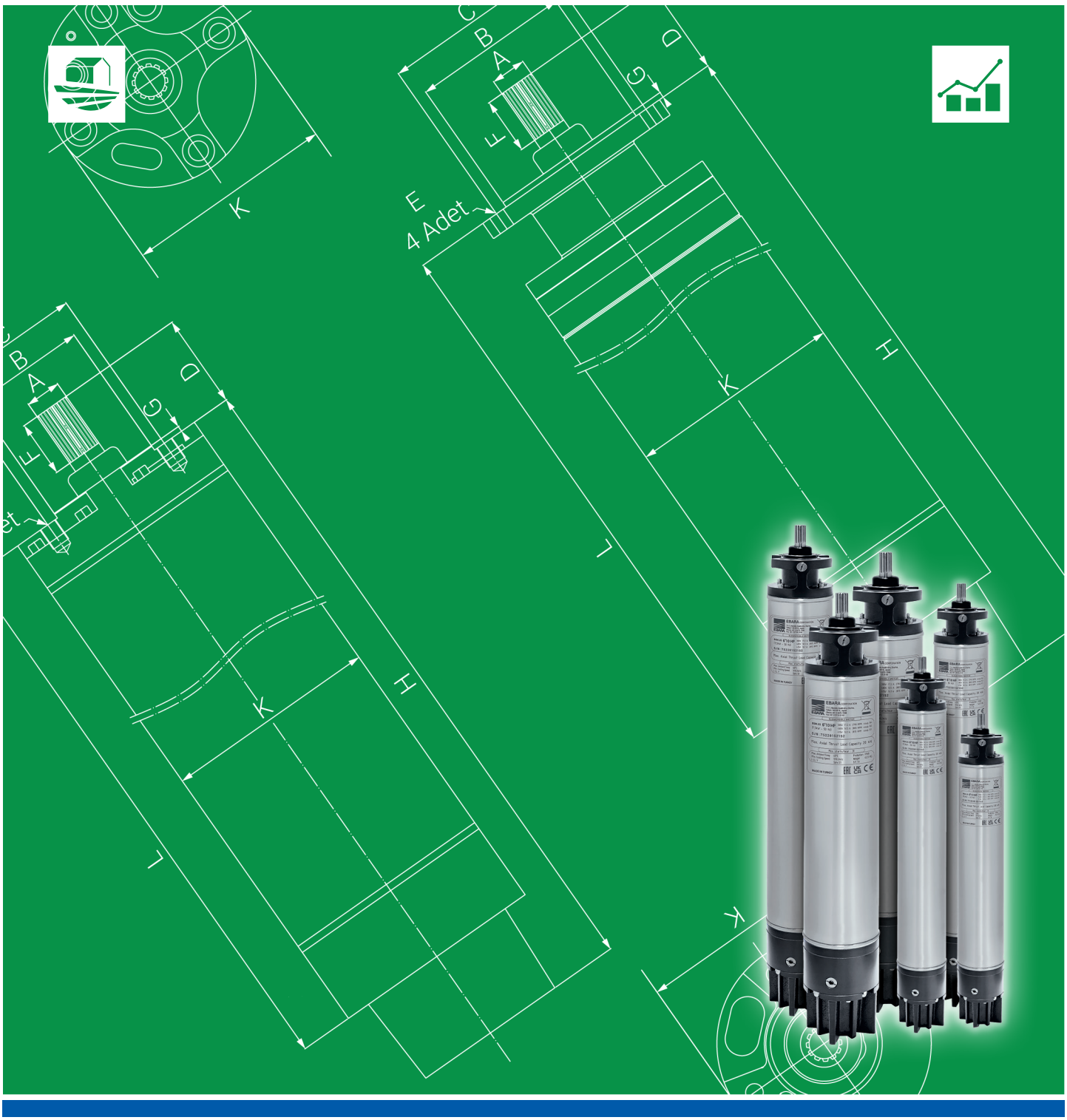
Looking ahead,
going beyond expectations

*Ahead Beyond*

EBARA

# BSM

## Data Book 50Hz






www.ebaraeurope.com

# SUBMERSIBLE MOTORS


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## SUBMERSIBLE MOTORS

## TYPICAL APPLICATIONS

| AGRICULTURE | WATER SUPPLY | WATER SUPPLY |
|---|---|---|
|  |  |  |
| • **Irrigation and agriculture:**<br>gardens<br>sport fields<br>golf courses<br>garden centres<br>crops<br>livestock feeding | • **Groundwater lowering:**<br>boreholes<br>shallow wells<br>tanks and cisterns | • **Potable groundwater supply to municipal** |
| WATER SUPPLY | INDUSTRY | INDUSTRY |
|  |  |  |
| • **Fountains and waterworks** | • **Reservoir dewatering and water transfer** | • **Water supply to industry sites:**<br>cooling<br>processing<br>fire-fighting |





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# PRODUCT SPECIFICATIONS
# BSM(.)6-8-10

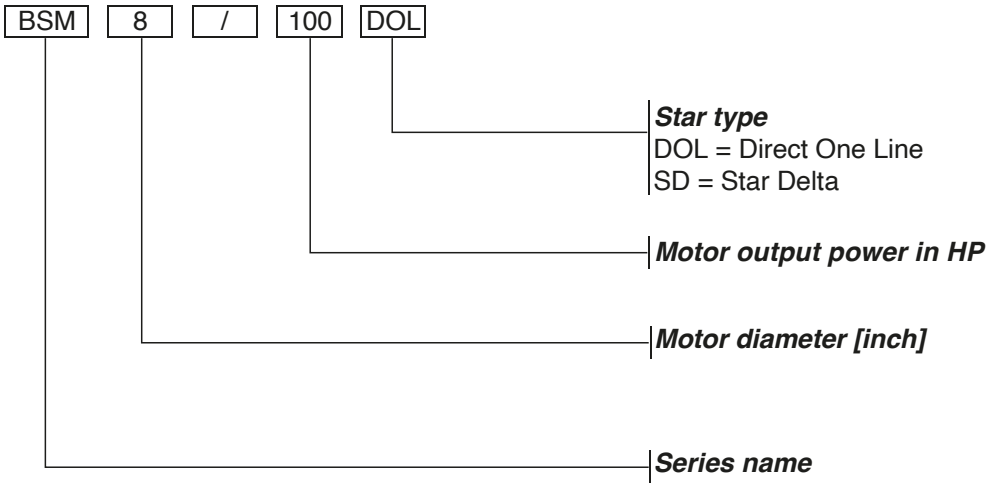
| MOTOR | | | | | |
|---|---|---|---|---|---|
| **Operating range** | Motor diameter | (inch) | 6 | 8 | 10 |
| | Maximum amb. temperature | (°C) | 40° | 30° | 30° |
| | Minimum cooling water flow | (m/s) | 0,2 (4÷18,5 kW)<br>0,5 (22÷45 kW) | 0,2 (30÷55 kW)<br>0,5 (60÷92 kW) | 0,5 |
| | Maximum starts / hour | | 20 (4÷22 kW)<br>15 (26,5÷45 kW) | 15 (30÷81 kW)<br>10 (92 kW) | 10 |
| | Power rating | (kW) | 4 ÷ 45 | 30 ÷ 92 | 81 ÷ 166 |
| | | (HP) | 5,5 ÷ 60 | 40 ÷ 125 | 110 ÷ 225 |
| | Max. storage temperature | (°C) | -10ºC to 50ºC | | |
| **Power Source** | Frequency | (Hz) | 50 Hz | | |
| | Phase | | Three Phase | | |
| | Voltage | (V) | 380 - 415 (-5% / +10%) | | |
| **Type** | Type | | Rewindable stator, water-filled | | |
| | No° of poles | | 2 | | |
| | Protection degree | | IP68 | | |
| | Rated speed | | Refer to performance data tables for details | | |
| | Start type | | DOL or SD (pos. of cables: 90°) | | |
| **Others** | Direction of rotation | | CW and CCW | | |
| | Maximum immersion | (m) | 300 | | |
| | Installation | | Vertical and Horizontal | | |
| | Flange mount | | NEMA standard - double flange | | |
| | VFD installation | | yes (min. frequency = 30Hz) | | |
| **Version** | | | BSM | BSM 3S | BSM 3SL |
| **Key Components Material *** | Windings | | PE2 + PA insulated copper wire | | |
| | Up / Low flange | | Cast Iron | AISI 304 | AISI 316 |
| | Casing material | | AISI 304 | AISI 304 | AISI 316 |
| | Mechanical Seal | | Carbon / Ceramic | SiC / SiC | SiC / SiC |
| | Power Cable | | H07VVH6-F<br>(Flat cable, directly jointed to the windings inside the motor) | | |
| | Sealing Liquid | | Water + Glycerine (30% solution) | | |
| | Thrust Bearings | | Michell type | | |



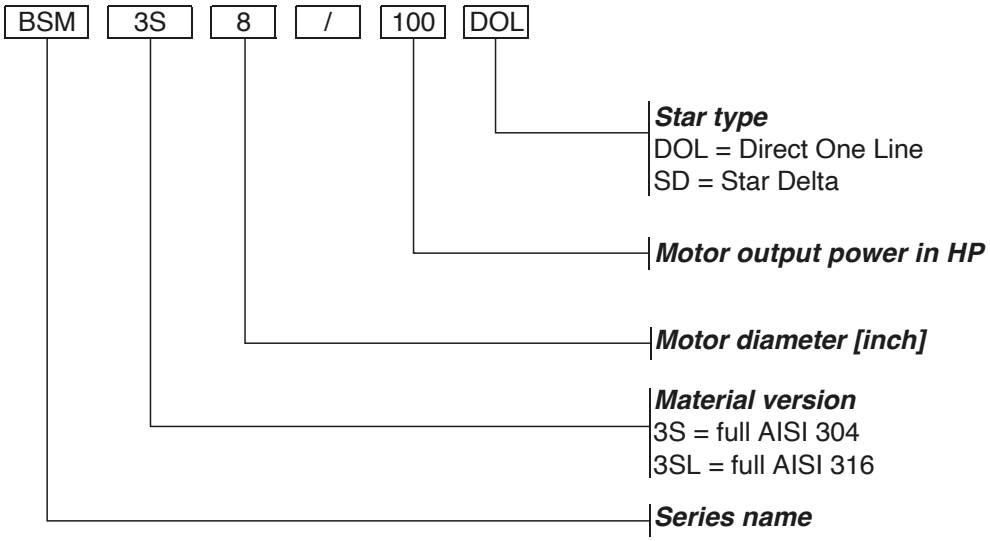
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## TYPE KEY
## BSM(.)6-8-10

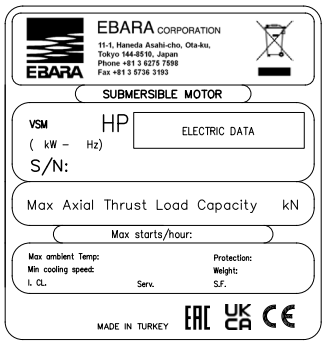
Example for **standard versionr**:
BSM 8 100 DOL




Example for **3S and 3SL version**:
BSM 3S 8 100 DOL




## NAMEPLATE

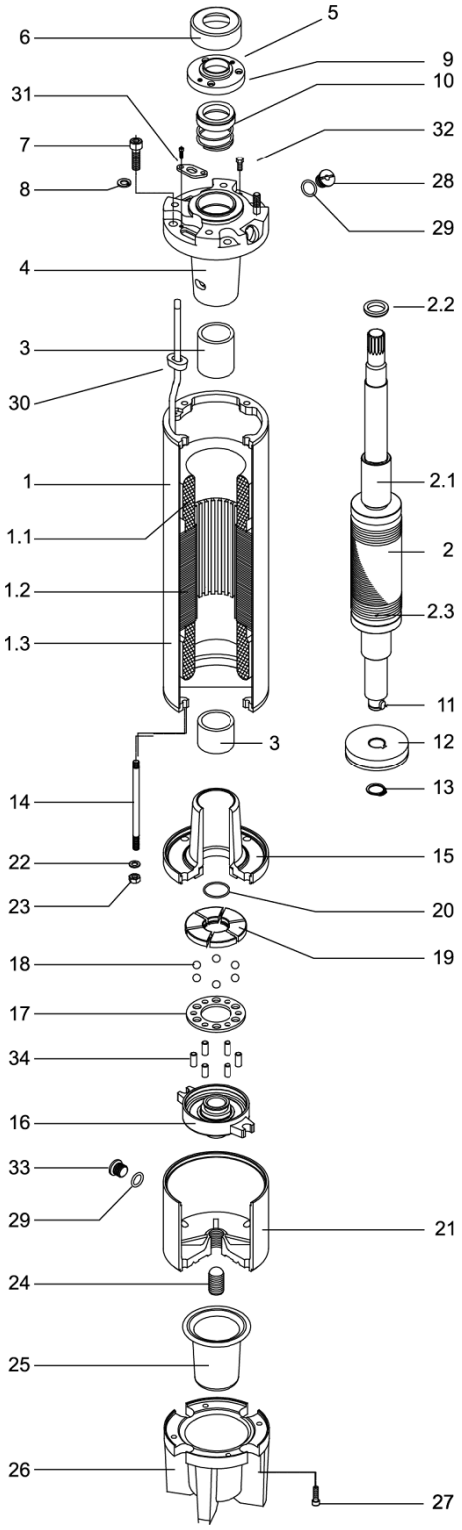



| | |
|---|---|
| "BSM" | Type of motor (diameter) |
| "HP" | Rated power of the motor (output at shaft) measured in HP (Horse Power) |
| "ELECTRIC DATA" | Indicates the nominal electric performances of the motor (voltage [V], current [A], rotational speed [rpm], cos-phi) |
| "kW" | Rated power of the motor (output at shaft) measured in kW |
| "Hz" | Frequency |
| "S/N" | Motor serial number and item code |
| "kN" | Max. Axial Thrust Load Capacity |
| "I.CL." | Insulation Class |
| "Serv." | Duty Service (according to IEC 34-1 standard) |
| "S.F." | Service Factor |


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# CONSTRUCTION
# BSM(.)6-8-10

1. Standard Version



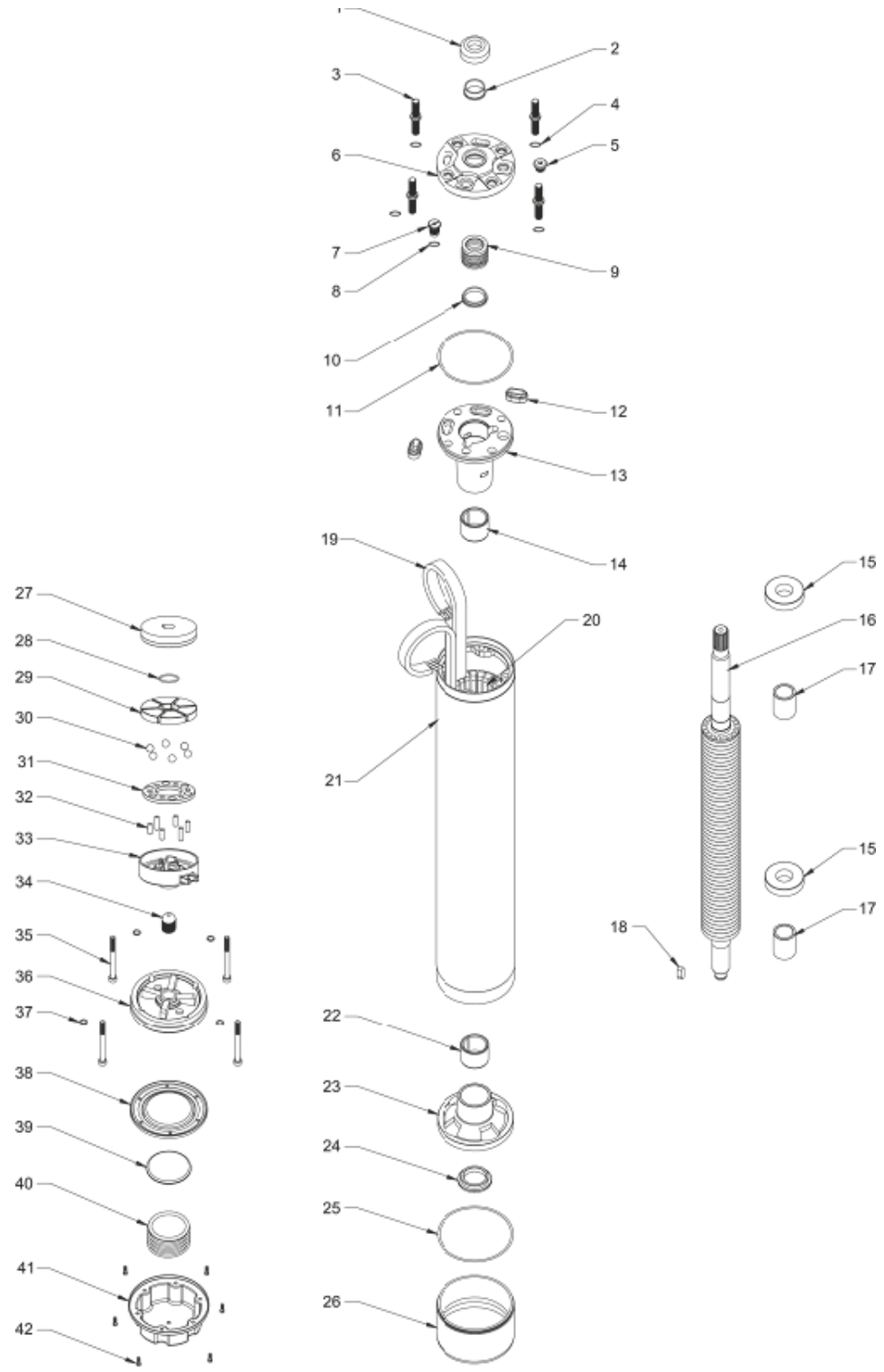

| | | BSM |
|---|---|---|
| N° | PART NAME | MATERIAL |
| 1 | Stator | - |
| 1.1 | Winding wire | PE2+PA insulated copper |
| 1.2 | Stator stack | Magnetic steel |
| 1.3 | Stator shell | AISI 304 Stainless steel |
| 2 | Rotor | - |
| 2.1 | Shaft sleeve | St37 Steel (CrNi coated) |
| 2.2 | Balance ring | St37 Steel |
| 2.3 | Copper ring | Cu |
| 3 | Radial Bearing | Carbon |
| 4 | Upper bearing body | GG20-25 Cast iron |
| 5 | Bushing | Bronze |
| 6 | Slinger (Sand guard) | NBR / EPDM |
| 7 | Screws | Stainless steel |
| 8 | Copper ring | Cu |
| 9 | Cover seal | AISI 420 Stainless steel |
| 10 | Mechanical seal | Carbon / Ceramic |
| 11 | Axial Thrust Bearing key | Stainless steel |
| 12 | Axial Thrust Bearing | Carbon |
| 13 | Retaining ring | St37 Steel |
| 14 | Tie rod | Stainless steel |
| 15 | Lower bearing body | GG20-25 Cast iron |
| 16 | Thrust Bearing support | GG20-25 Cast iron |
| 17 | Ball holder | Spring Steel |
| 18 | Thrust Bearing ball | Stainless steel |
| 19 | Tilting pads | Stainless steel |
| 20 | O-ring | NBR |
| 21 | Thrust Bearing body | GG20-25 Cast iron |
| 22 | Copper ring | Cu |
| 23 | Nut | Stainless steel |
| 24 | Screw (Thrust Bearing base) | Stainless steel |
| 25 | Membrane | NBR / EPDM |
| 26 | Membrane body | GG20-25 Cast iron |
| 27 | Screws | Stainless steel |
| 28 | Check valve | Stainless steel |
| 29 | O-ring | NBR |
| 30 | Cable seal | NBR |
| 31 | Seal cover | AISI 304 Stainless steel |
| 32 | Nut | AISI 303 Stainless steel |
| 33 | Plug | Stainless steel |
| 34 | Ball holder pins | Stainless steel |



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## CONSTRUCTION
## BSM(.)6-8-10

2. 3S and 3SL Version








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# CONSTRUCTION
# BSM(.)6-8-10

2. 3S and 3SL Version

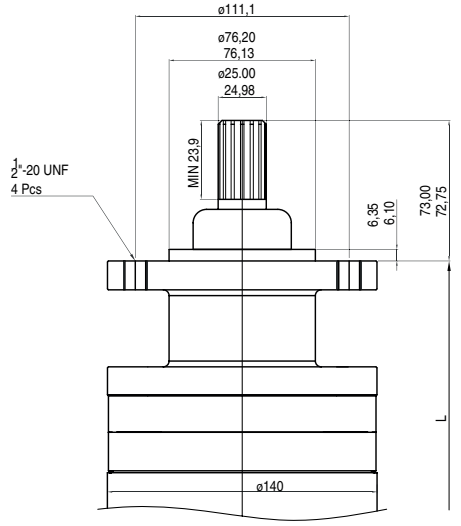
| | | BSM 3S | BSM 3SL |
|---|---|---|---|
| N° | PART NAME | MATERIAL | MATERIAL |
| 1 | Slinger (Sand guard) | NBR / EPDM | NBR / EPDM |
| 2 | Inner ring | Bronze | Bronze |
| 3 | Stud | AISI 304 Stainless steel | AISI 316 Stainless steel |
| 4 | O-ring | NBR | NBR |
| 5 | Plug | AISI 304 Stainless steel | AISI 316 Stainless steel |
| 6 | Upper connection body | AISI 304 Stainless steel | AISI 316 Stainless steel |
| 7 | Check valve | AISI 304 Stainless steel | AISI 316 Stainless steel |
| 8 | O-ring | NBR | NBR |
| 9 | Mechanical seal | SiC / SiC | SiC / SiC |
| 10 | Support ring | AISI 420 Stainless steel | AISI 420 Stainless steel |
| 11 | O-ring | NBR | NBR |
| 12 | Cable seal | NBR | NBR |
| 13 | Upper bearing body | GG25 Cast iron | GG25 Cast iron |
| 14 | Radial bearing | Carbon | Carbon |
| 15 | Balance ring | Carbon Steel | Carbon Steel |
| 16 | Rotor | - | - |
| 17 | Shaft sleeve | St37 Steel (CrNi coated) | St37 Steel (CrNi coated) |
| 18 | Axial Thrust Bearing key | AISI 420 Stainless steel | AISI 420 Stainless steel |
| 19 | Lead cable | - | - |
| 20 | Stator stack | Magnetic steel | Magnetic steel |
| 21 | Stator | - | - |
| 22 | Radial bearing | Carbon | Carbon |
| 23 | Lower bearing body | GG25 Cast iron | GG25 Cast iron |
| 24 | Up-thrust bearing | Bronze | Bronze |
| 25 | O-ring | NBR | NBR |
| 26 | Thrust Bearing body | AISI 304 Stainless steel | AISI 316 Stainless steel |
| 27 | Axial Thrust Bearing | Carbon | Carbon |
| 28 | O-ring | NBR | NBR |
| 29 | Tilting pads | Stainless steel | Stainless steel |
| 30 | Thrust Bearing ball | Stainless steel | Stainless steel |
| 31 | Ball holder | Spring Steel | Spring Steel |
| 32 | Ball holder pins | Stainless steel | Stainless steel |
| 33 | Thrust Bearing support | GG25 Cast iron | GG25 Cast iron |
| 34 | Screw (Thrust Bearing base) | Stainless steel | Stainless steel |
| 35 | Bolt | AISI 304 Stainless steel | AISI 316 Stainless steel |
| 36 | Thrust Bearing body flange | GG25 Cast iron | GG25 Cast iron |
| 37 | Copper ring | Cu | Cu |
| 38 | Membrane | NBR | NBR |
| 39 | Membrane disc | AISI 304 Stainless steel | AISI 316 Stainless steel |
| 40 | Spring | AISI 304 Stainless steel | AISI 316 Stainless steel |
| 41 | Membrane cover | AISI 304 Stainless steel | AISI 316 Stainless steel |
| 42 | Bolt | AISI 304 Stainless steel | AISI 316 Stainless steel |



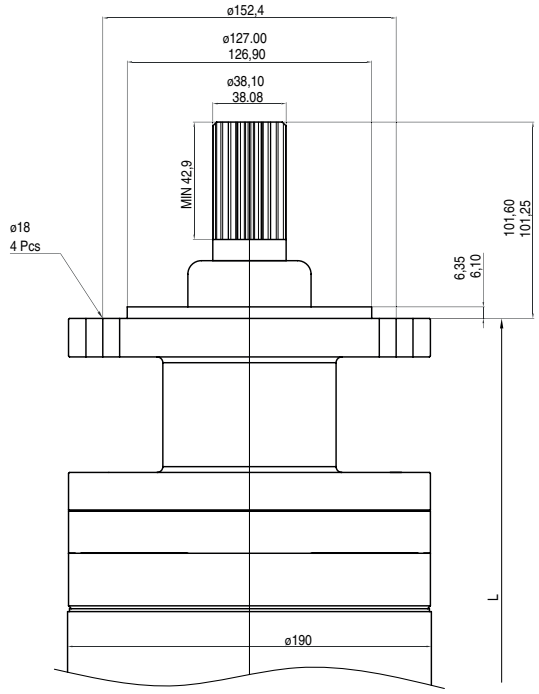
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## DIMENSIONS AND WEIGHT
## BSM(.)6-8-10

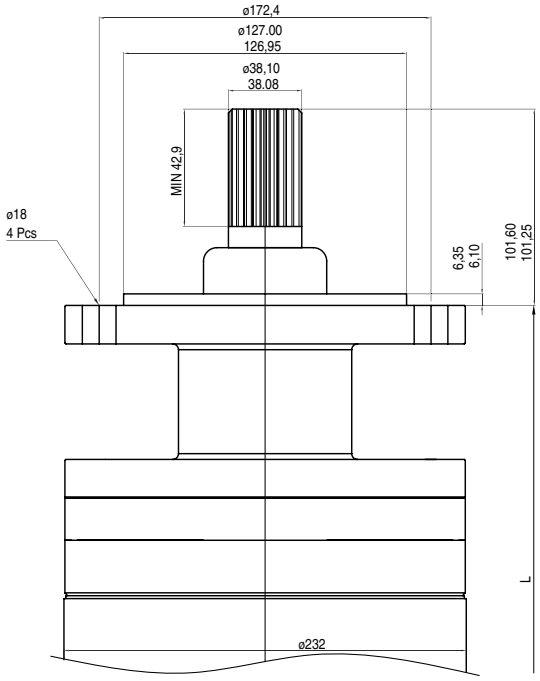
Flange Connection - Standard (double flange design)




6"




8"

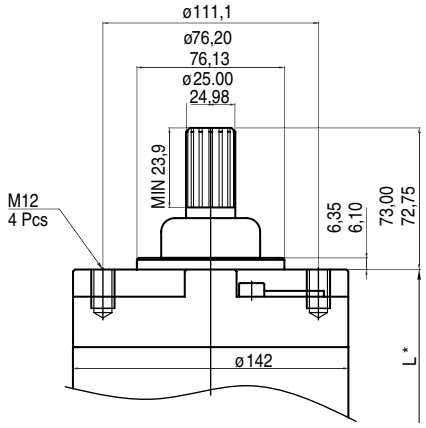



10"


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## DIMENSIONS AND WEIGHT
## BSM(.)6-8-10

Flange Connection - Optional (single flange design - available upon request)



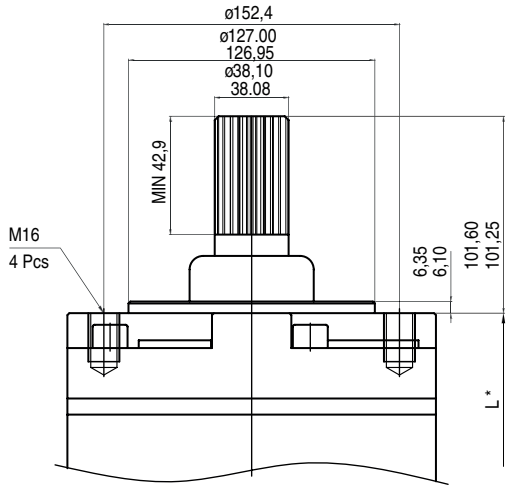

6"

**L* = L – Hd.f.**

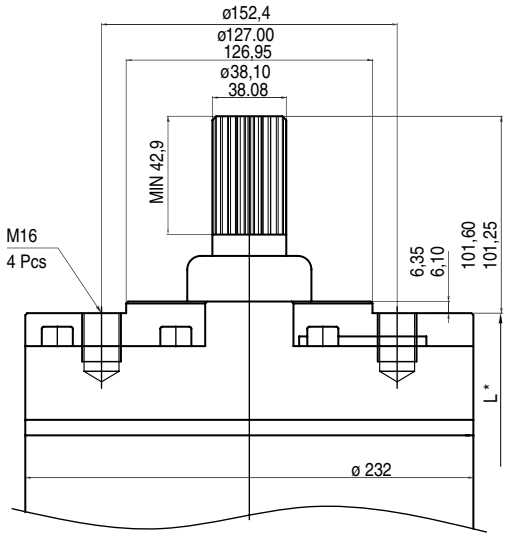
L = Std. motor length [mm]
Hd.f. = Height of double flange [mm]

where Hd.f. is:

| | |
|---|---|
| 6" motors | 50 mm |
| 8" motors | 55 mm |
| 10" motors | 60 mm |




8"




10"



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## DIMENSIONS AND WEIGHT
## BSM(.)6-8-10

Motor dimension and weight

| Model | Power | | Diameter | Motor (std.) | | Packed Motor (std.) | | | | Motor (3S - 3SL) | | Packed Motor (3S - 3SL) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Length | Weight | L | W | H | Weight | Length | Weight | L | W | H | Weight |
| | [kW] | [HP] | [mm] | [mm] | [kg] | [mm] | [mm] | [mm] | [kg] | [mm] | [kg] | [mm] | [mm] | [mm] | [kg] |
| BSM 6 / 5,5 | 4 | 5,5 | 142 | 699 | 42 | 1000 | 150 | 170 | 48 | 644 | 42 | 1000 | 150 | 170 | 48 |
| BSM 6 / 7,5 | 5,5 | 7,5 | 142 | 699 | 42 | 1000 | 150 | 170 | 48 | 673 | 46 | 1000 | 150 | 170 | 52 |
| BSM 6 / 10 | 7,5 | 10 | 142 | 728 | 46 | 1000 | 150 | 170 | 52 | 753 | 52 | 1000 | 150 | 170 | 58 |
| BSM 6 / 12,5 | 9,3 | 12,5 | 142 | 808 | 52 | 1100 | 150 | 170 | 58 | 793 | 57 | 1100 | 150 | 170 | 63 |
| BSM 6 / 15 | 11 | 15 | 142 | 850 | 57 | 1100 | 150 | 170 | 63 | 846 | 62 | 1100 | 150 | 170 | 68 |
| BSM 6 / 17,5 | 13 | 17,5 | 142 | 901 | 62 | 1200 | 150 | 170 | 69 | 906 | 67 | 1200 | 150 | 170 | 74 |
| BSM 6 / 20 | 15 | 20 | 142 | 961 | 67 | 1200 | 150 | 170 | 74 | 968 | 74 | 1200 | 150 | 170 | 81 |
| BSM 6 / 25 | 18,5 | 25 | 142 | 1023 | 74 | 1200 | 150 | 170 | 81 | 1001 | 78 | 1200 | 150 | 170 | 85 |
| BSM 6 / 30 | 22 | 30 | 142 | 1056 | 78 | 1350 | 150 | 170 | 85 | 1101 | 89 | 1350 | 150 | 170 | 96 |
| BSM 6 / 35 | 26,5 | 35 | 142 | 1156 | 89 | 1350 | 150 | 170 | 97 | 1216 | 100 | 1350 | 150 | 170 | 108 |
| BSM 6 / 40 | 30 | 40 | 142 | 1267 | 100 | 1500 | 150 | 170 | 108 | 1246 | 105 | 1500 | 150 | 170 | 113 |
| BSM 6 / 50 | 37 | 50 | 142 | 1297 | 105 | 1500 | 150 | 170 | 114 | 1346 | 112 | 1500 | 150 | 170 | 121 |
| BSM 6 / 60 | 45 | 60 | 142 | 1397 | 112 | 1600 | 150 | 170 | 121 | 1346 | 112 | 1600 | 150 | 170 | 121 |
| BSM 8 / 40 | 30 | 40 | 190 | 1051 | 123 | 1400 | 200 | 230 | 134 | 1003 | 134 | 1400 | 200 | 230 | 145 |
| BSM 8 / 50 | 37 | 50 | 190 | 1111 | 132 | 1400 | 200 | 230 | 143 | 1063 | 143 | 1400 | 200 | 230 | 154 |
| BSM 8 / 60 | 45 | 60 | 190 | 1171 | 141 | 1550 | 200 | 230 | 153 | 1148 | 157 | 1550 | 200 | 230 | 169 |
| BSM 8 / 70 | 52 | 70 | 190 | 1256 | 155 | 1550 | 200 | 230 | 167 | 1233 | 175 | 1550 | 200 | 230 | 187 |
| BSM 8 / 75 | 55 | 75 | 190 | 1341 | 173 | 1550 | 200 | 230 | 185 | 1233 | 175 | 1550 | 200 | 230 | 187 |
| BSM 8 / 80 | 60 | 80 | 190 | 1341 | 173 | 1550 | 200 | 230 | 186 | 1288 | 190 | 1550 | 200 | 230 | 203 |
| BSM 8 / 90 | 67 | 90 | 190 | 1396 | 188 | 1750 | 200 | 230 | 201 | 1313 | 195 | 1750 | 200 | 230 | 208 |
| BSM 8 / 100 | 75 | 100 | 190 | 1421 | 189 | 1750 | 200 | 230 | 202 | 1338 | 200 | 1750 | 200 | 230 | 213 |
| BSM 8 / 110 | 81 | 110 | 190 | 1446 | 198 | 2000 | 200 | 230 | 211 | 1418 | 210 | 2000 | 200 | 230 | 223 |
| BSM 8 / 125 | 92 | 125 | 190 | 1526 | 213 | 2000 | 200 | 230 | 226 | 1483 | 217 | 2000 | 200 | 230 | 230 |
| BSM 10 / 110 | 81 | 110 | 232 | 1370 | 234 | 2200 | 250 | 265 | 249 | 1342 | 204 | 2200 | 250 | 265 | 219 |
| BSM 10 / 125 | 92 | 125 | 232 | 1430 | 262 | 2200 | 250 | 265 | 277 | 1402 | 217 | 2200 | 250 | 265 | 232 |
| BSM 10 / 150 | 110 | 150 | 232 | 1490 | 290 | 2200 | 250 | 265 | 305 | 1482 | 265 | 2200 | 250 | 265 | 280 |
| BSM 10 / 175 | 129 | 175 | 232 | 1570 | 317 | 2200 | 250 | 265 | 332 | 1582 | 265 | 2200 | 250 | 265 | 280 |
| BSM 10 / 200 | 147 | 200 | 232 | 1670 | 344 | 2200 | 250 | 265 | 359 | 1712 | 288 | 2200 | 250 | 265 | 303 |
| BSM 10 / 225 | 166 | 225 | 232 | 1800 | 376 | 2500 | 250 | 265 | 392 | 1792 | 295 | 2500 | 250 | 265 | 311 |

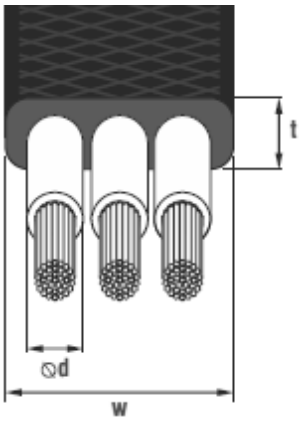

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# MOTOR LEAD CABLES
# BSM(.)6-8-10

[50Hz; 380/400/415 V]

| Model | Power | | DOL | SD* | Length |
|---|---|---|---|---|---|
| | [kW] | [HP] | [mm²] | [mm²] | [m] |
| BSM 6 / 5,5 | 4 | 5,5 | 4x2,5 | 4x2,5 + 3x2,5 | 4 |
| BSM 6 / 7,5 | 5,5 | 7,5 | 4x2,5 | 4x2,5 + 3x2,5 | 4 |
| BSM 6 / 10 | 7,5 | 10 | 4x2,5 | 4x2,5 + 3x2,5 | 4 |
| BSM 6 / 12,5 | 9,3 | 12,5 | 4x2,5 | 4x2,5 + 3x2,5 | 4 |
| BSM 6 / 15 | 11 | 15 | 4x4 | 4x2,5 + 3x2,5 | 4 |
| BSM 6 / 17,5 | 13 | 17,5 | 4x4 | 4x2,5 + 3x2,5 | 4 |
| BSM 6 / 20 | 15 | 20 | 4x4 | 4x2,5 + 3x2,5 | 4 |
| BSM 6 / 25 | 18,5 | 25 | 4x6 | 4x4 + 3x4 | 4 |
| BSM 6 / 30 | 22 | 30 | 4x6 | 4x4 + 3x4 | 4 |
| BSM 6 / 35 | 26,5 | 35 | 4x10 | 4x6 + 3x6 | 4 |
| BSM 6 / 40 | 30 | 40 | 4x10 | 4x6 + 3x6 | 4 |
| BSM 6 / 50 | 37 | 50 | 3x16 + G1x16 | 4x10 + 3x10 | 4 |
| BSM 6 / 60 | 45 | 60 | 3x16 + G1x16 | 4x10 + 3x10 | 4 |
| BSM 8 / 40 | 30 | 40 | 4x16 | 4x10 + 3x10 | 4 |
| BSM 8 / 50 | 37 | 50 | 4x16 | 4x10 + 3x10 | 4 |
| BSM 8 / 60 | 45 | 60 | 4x16 | 4x10 + 3x10 | 4 |
| BSM 8 / 70 | 52 | 70 | 4x16 | 4x10 + 3x10 | 4 |
| BSM 8 / 75 | 55 | 75 | 4x16 | 4x10 + 3x10 | 4 |
| BSM 8 / 80 | 60 | 80 | 4x16 | 4x10 + 3x10 | 4 |
| BSM 8 / 90 | 67 | 90 | 4x16 | 4x10 + 3x10 | 4 |
| BSM 8 / 100 | 75 | 100 | 3x25 + G1x25 | 4x16 + 3x16 | 4 |
| BSM 8 / 110 | 81 | 110 | 3x25 + G1x25 | 4x16 + 3x16 | 4 |
| BSM 8 / 125 | 92 | 125 | 3x25 + G1x25 | 4x16 + 3x16 | 4 |
| BSM 10 / 110 | 81 | 110 | 3x25 + G1x25 | 3x16 + 3x16 | 5 |
| BSM 10 / 125 | 92 | 125 | 3x25 + G1x25 | 3x16 + 3x16 | 5 |
| BSM 10 / 150 | 110 | 150 | 3x35 + G1x35 | 3x25 + 3x25 | 5 |
| BSM 10 / 175 | 129 | 175 | 3x35 + G1x35 | 3x25 + 3x25 | 5 |
| BSM 10 / 200 | 147 | 200 | 3x35 + G1x35 | 3x25 + 3x25 | 5 |
| BSM 10 / 225 | 166 | 225 | 3x35 + G1x35 | 3x35 + 3x35 | 5 |

(*) Position of cables: 90°




| Type | t [mm] | w [mm] | d [mm] |
|---|---|---|---|
| 3x 2,5 | 6,4 ± 0,2 | 15,0 ± 0,3 | 3,6 |
| 3x 4 | 7,1 ± 0,5 | 16,5 ± 0,5 | 4,1 |
| 3x 6 | 8,0 ± 0,5 | 18,3 ± 0,5 | 4,6 |
| 3x 10 | 8,8 ± 0,5 | 21,8 ± 0,5 | 6,0 |
| 3x 16 | 10,5 ± 0,5 | 25,4 ± 0,5 | 7,0 |
| 3x 25 | 12,0 ± 0,5 | 33,0 ± 0,5 | 9,0 |
| 3x 35 | 13,5 ± 0,5 | 34,5 ± 1,0 | 10,1 |
| 4x 2,5 | 6,4 ± 0,2 | 18,0 ± 0,3 | 3,6 |
| 4x 4 | 7,1 ± 0,5 | 20,2 ± 0,5 | 4,1 |
| 4x 6 | 8,0 ± 0,5 | 22,4 ± 0,5 | 4,6 |
| 4x 10 | 8,8 ± 0,5 | 28,0 ± 0,5 | 6,0 |
| 4x 16 | 10,5 ± 0,5 | 33,7 ± 0,5 | 7,0 |



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# TECHNICAL DATA
# BSM(.)6-8-10

Electrical data - BSM 6

| Model | Power | | Axial Thrust | Voltage | Rotation | $I_N$ | $I_S$ | η (% of load) | | | cos ϕ(% of load) | | | TN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [kW] | [HP] | [N] | [V] | [rpm] | [A] | [A] | 50 | 75 | 100 | 50 | 75 | 100 | [Nm] |
| BSM 6 / 5,5 | 4 | 5,5 | 20.000 | 380 | 2770 | 10,2 | 39,4 | 67 | 71 | 71 | 0,63 | 0,71 | 0,84 | 13,8 |
| | | | | 400 | 2785 | 9,8 | 37,8 | 68 | 72 | 72 | 0,59 | 0,67 | 0,82 | 13,7 |
| | | | | 415 | 2795 | 9,5 | 36,9 | 68 | 72 | 72 | 0,58 | 0,66 | 0,81 | 13,7 |
| BSM 6 / 7,5 | 5,5 | 7,5 | 20.000 | 380 | 2780 | 13,3 | 52,7 | 70 | 73 | 75 | 0,63 | 0,71 | 0,84 | 18,9 |
| | | | | 400 | 2795 | 12,8 | 50,6 | 71 | 74 | 76 | 0,59 | 0,67 | 0,82 | 18,8 |
| | | | | 415 | 2805 | 12,3 | 48,7 | 72 | 75 | 77 | 0,58 | 0,66 | 0,81 | 18,7 |
| BSM 6 / 10 | 7,5 | 10 | 20.000 | 380 | 2790 | 17,2 | 66,4 | 77 | 79 | 79 | 0,63 | 0,71 | 0,84 | 25,7 |
| | | | | 400 | 2805 | 16,5 | 63,8 | 79 | 80 | 80 | 0,59 | 0,67 | 0,82 | 25,5 |
| | | | | 415 | 2815 | 16,1 | 62,2 | 79 | 80 | 80 | 0,58 | 0,66 | 0,81 | 25,4 |
| BSM 6 / 12,5 | 9,3 | 12,5 | 20.000 | 380 | 2850 | 20,8 | 80,3 | 80 | 81 | 81 | 0,63 | 0,71 | 0,84 | 31,2 |
| | | | | 400 | 2855 | 20,2 | 78,1 | 80 | 81 | 81 | 0,59 | 0,67 | 0,82 | 31,1 |
| | | | | 415 | 2865 | 19,5 | 75,3 | 81 | 82 | 82 | 0,58 | 0,66 | 0,81 | 31,0 |
| BSM 6 / 15 | 11 | 15 | 20.000 | 380 | 2810 | 23,7 | 91,6 | 81 | 82 | 82 | 0,67 | 0,75 | 0,86 | 37,4 |
| | | | | 400 | 2825 | 22,8 | 88,0 | 82 | 83 | 83 | 0,63 | 0,71 | 0,84 | 37,2 |
| | | | | 415 | 2835 | 22,2 | 85,9 | 82 | 83 | 83 | 0,61 | 0,69 | 0,83 | 37,1 |
| BSM 6 / 17,5 | 13 | 17,5 | 20.000 | 380 | 2820 | 28,7 | 110,9 | 80 | 81 | 81 | 0,65 | 0,73 | 0,85 | 44,0 |
| | | | | 400 | 2835 | 27,6 | 106,6 | 81 | 82 | 82 | 0,61 | 0,69 | 0,83 | 43,8 |
| | | | | 415 | 2845 | 26,6 | 102,7 | 82 | 83 | 83 | 0,59 | 0,67 | 0,82 | 43,6 |
| BSM 6 / 20 | 15 | 20 | 20.000 | 380 | 2850 | 33,1 | 127,9 | 80 | 81 | 81 | 0,65 | 0,73 | 0,85 | 50,3 |
| | | | | 400 | 2855 | 32,2 | 124,5 | 80 | 81 | 81 | 0,61 | 0,69 | 0,83 | 50,2 |
| | | | | 415 | 2865 | 31,0 | 120,0 | 81 | 82 | 82 | 0,59 | 0,67 | 0,82 | 50,0 |
| BSM 6 / 25 | 18,5 | 25 | 20.000 | 380 | 2850 | 41,8 | 161,6 | 80 | 81 | 81 | 0,61 | 0,69 | 0,83 | 62,0 |
| | | | | 400 | 2865 | 40,2 | 155,4 | 81 | 82 | 82 | 0,58 | 0,66 | 0,81 | 61,7 |
| | | | | 415 | 2875 | 38,8 | 149,8 | 82 | 83 | 83 | 0,57 | 0,65 | 0,80 | 61,4 |
| BSM 6 / 30 | 22 | 30 | 20.000 | 380 | 2860 | 48,5 | 187,6 | 81 | 82 | 82 | 0,63 | 0,71 | 0,84 | 73,5 |
| | | | | 400 | 2875 | 46,7 | 180,3 | 82 | 83 | 83 | 0,59 | 0,67 | 0,82 | 73,1 |
| | | | | 415 | 2885 | 45,0 | 173,9 | 83 | 84 | 84 | 0,58 | 0,66 | 0,81 | 72,8 |
| BSM 6 / 35 | 26,5 | 35 | 26.500 | 380 | 2870 | 56,4 | 217,9 | 83 | 84 | 84 | 0,65 | 0,73 | 0,85 | 88,2 |
| | | | | 400 | 2885 | 54,9 | 212,0 | 83 | 84 | 84 | 0,61 | 0,69 | 0,83 | 87,7 |
| | | | | 415 | 2895 | 52,9 | 204,4 | 84 | 85 | 85 | 0,59 | 0,67 | 0,82 | 87,4 |
| BSM 6 / 40 | 30 | 40 | 26.500 | 380 | 2880 | 64,6 | 249,7 | 82 | 83 | 83 | 0,65 | 0,73 | 0,85 | 99,5 |
| | | | | 400 | 2895 | 62,1 | 240,0 | 83 | 84 | 84 | 0,61 | 0,69 | 0,83 | 99,0 |
| | | | | 415 | 2905 | 59,9 | 231,4 | 84 | 85 | 85 | 0,59 | 0,67 | 0,82 | 98,6 |
| BSM 6 / 50 | 37 | 50 | 26.500 | 380 | 2890 | 79,7 | 315,6 | 80 | 81 | 83 | 0,65 | 0,73 | 0,85 | 122,3 |
| | | | | 400 | 2905 | 76,7 | 303,3 | 81 | 82 | 84 | 0,61 | 0,69 | 0,83 | 121,6 |
| | | | | 415 | 2915 | 74,7 | 288,8 | 83 | 84 | 84 | 0,59 | 0,67 | 0,82 | 121,2 |
| BSM 6 / 60 | 45 | 60 | 26.500 | 380 | 2890 | 96,9 | 374,7 | 82 | 81 | 83 | 0,65 | 0,73 | 0,85 | 148,7 |
| | | | | 400 | 2905 | 93,2 | 360,2 | 81 | 82 | 84 | 0,61 | 0,69 | 0,83 | 147,9 |
| | | | | 415 | 2915 | 87,7 | 339,0 | 83 | 84 | 84 | 0,59 | 0,67 | 0,85 | 147,4 |


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# TECHNICAL DATA
# BSM(.)6-8-10

Electrical data - BSM 8

| Model | Power | | Axial Thrust | Voltage | Rotation | $I_N$ | $I_S$ | η (% of load) | | | cos ϕ(% of load) | | | TN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [kW] | [HP] | [N] | [V] | [rpm] | [A] | [A] | 50 | 75 | 100 | 50 | 75 | 100 | [Nm] |
| BSM 8 / 40 | 30 | 40 | 45.000 | 380 | 2880 | 63,2 | 239,0 | 82 | 83 | 83 | 0,73 | 0,78 | 0,87 | 99,5 |
| | | | | 400 | 2895 | 60,7 | 229,0 | 83 | 84 | 84 | 0,67 | 0,74 | 0,85 | 99,0 |
| | | | | 415 | 2905 | 59,2 | 223,0 | 83 | 84 | 84 | 0,65 | 0,73 | 0,84 | 98,6 |
| BSM 8 / 50 | 37 | 50 | 45.000 | 380 | 2890 | 76,1 | 287,0 | 84 | 85 | 85 | 0,73 | 0,78 | 0,87 | 122,3 |
| | | | | 400 | 2905 | 73,1 | 276,0 | 85 | 86 | 86 | 0,67 | 0,74 | 0,85 | 121,6 |
| | | | | 415 | 2915 | 72,2 | 269,0 | 85 | 86 | 86 | 0,65 | 0,73 | 0,84 | 121,2 |
| BSM 8 / 60 | 45 | 60 | 45.000 | 380 | 2890 | 92,6 | 349,0 | 84 | 85 | 85 | 0,73 | 0,78 | 0,87 | 148,7 |
| | | | | 400 | 2905 | 89,0 | 336,0 | 85 | 86 | 86 | 0,67 | 0,74 | 0,85 | 147,9 |
| | | | | 415 | 2915 | 86,8 | 327,0 | 85 | 86 | 86 | 0,65 | 0,73 | 0,84 | 147,4 |
| BSM 8 / 70 | 52 | 70 | 45.000 | 380 | 2890 | 105,7 | 399,0 | 84 | 85 | 85 | 0,75 | 0,81 | 0,88 | 171,8 |
| | | | | 400 | 2905 | 101,6 | 383,0 | 85 | 86 | 86 | 0,70 | 0,76 | 0,86 | 170,9 |
| | | | | 415 | 2915 | 99,1 | 374,0 | 85 | 86 | 86 | 0,67 | 0,74 | 0,85 | 170,3 |
| BSM 8 / 75 | 55 | 75 | 45.000 | 380 | 2890 | 113,2 | 427,0 | 83 | 84 | 84 | 0,75 | 0,81 | 0,88 | 181,7 |
| | | | | 400 | 2905 | 110,0 | 415,0 | 83 | 84 | 84 | 0,70 | 0,76 | 0,86 | 180,8 |
| | | | | 415 | 2915 | 106,0 | 400,0 | 84 | 85 | 85 | 0,67 | 0,74 | 0,85 | 180,2 |
| BSM 8 / 80 | 60 | 80 | 45.000 | 380 | 2890 | 122,0 | 460,0 | 85 | 86 | 86 | 0,73 | 0,78 | 0,87 | 198,3 |
| | | | | 400 | 2905 | 118,6 | 447,0 | 85 | 86 | 86 | 0,67 | 0,74 | 0,85 | 197,2 |
| | | | | 415 | 2915 | 115,7 | 436,0 | 85 | 86 | 86 | 0,65 | 0,73 | 0,84 | 196,6 |
| BSM 8 / 90 | 67 | 90 | 45.000 | 380 | 2890 | 137,8 | 520,0 | 84 | 85 | 85 | 0,73 | 0,78 | 0,87 | 221,4 |
| | | | | 400 | 2905 | 132,4 | 499,0 | 85 | 86 | 86 | 0,67 | 0,74 | 0,85 | 220,2 |
| | | | | 415 | 2915 | 129,2 | 487,0 | 85 | 86 | 86 | 0,65 | 0,73 | 0,84 | 219,5 |
| BSM 8 / 100 | 75 | 100 | 45.000 | 380 | 2890 | 154,3 | 582,0 | 83 | 84 | 84 | 0,75 | 0,81 | 0,88 | 247,8 |
| | | | | 400 | 2905 | 148,3 | 559,0 | 84 | 85 | 85 | 0,70 | 0,76 | 0,86 | 246,5 |
| | | | | 415 | 2915 | 144,6 | 545,0 | 84 | 85 | 85 | 0,67 | 0,74 | 0,85 | 245,7 |
| BSM 8 / 110 | 81 | 110 | 55.000 | 380 | 2895 | 166,6 | 629,0 | 84 | 85 | 85 | 0,73 | 0,78 | 0,87 | 267,2 |
| | | | | 400 | 2900 | 160,1 | 604,0 | 85 | 86 | 86 | 0,67 | 0,74 | 0,85 | 266,7 |
| | | | | 415 | 2905 | 156,2 | 589,0 | 85 | 86 | 86 | 0,65 | 0,73 | 0,84 | 266,3 |
| BSM 8 / 125 | 92 | 125 | 55.000 | 380 | 2860 | 189,2 | 714,0 | 84 | 85 | 85 | 0,73 | 0,78 | 0,87 | 307,2 |
| | | | | 400 | 2875 | 181,9 | 686,0 | 85 | 86 | 86 | 0,67 | 0,74 | 0,85 | 305,6 |
| | | | | 415 | 2890 | 177,4 | 669,0 | 85 | 86 | 86 | 0,65 | 0,73 | 0,84 | 304,0 |



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# TECHNICAL DATA
# BSM(.)6-8-10

Electrical data - BSM 10

| Model | Power | | Axial Thrust | Voltage | Rotation | $I_N$ | $I_S$ | η (% of load) | | | cos ϕ(% of load) | | | TN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | [kW] | [HP] | [N] | [V] | [rpm] | [A] | [A] | 50 | 75 | 100 | 50 | 75 | 100 | [Nm] |
| BSM 10 / 110 | 81 | 110 | 75.000 | 380 | 2890 | 164,7 | 615,0 | 84 | 84 | 85 | 0,76 | 0,81 | 0,88 | 267,6 |
| | | | | 400 | 2905 | 158,3 | 590,0 | 85 | 85 | 86 | 0,72 | 0,77 | 0,86 | 266,3 |
| | | | | 415 | 2915 | 152,6 | 569,0 | 86 | 86 | 87 | 0,69 | 0,75 | 0,85 | 265,3 |
| BSM 10 / 125 | 92 | 125 | 75.000 | 380 | 2900 | 184,9 | 690,0 | 85 | 85 | 86 | 0,76 | 0,81 | 0,88 | 302,9 |
| | | | | 400 | 2915 | 179,8 | 671,0 | 85 | 85 | 86 | 0,72 | 0,77 | 0,86 | 301,4 |
| | | | | 415 | 2925 | 175,3 | 654,0 | 85 | 85 | 86 | 0,69 | 0,75 | 0,85 | 300,4 |
| BSM 10 / 150 | 110 | 150 | 75.000 | 380 | 2900 | 223,6 | 835,0 | 85 | 85 | 86 | 0,74 | 0,80 | 0,87 | 362,2 |
| | | | | 400 | 2915 | 217,5 | 811,0 | 85 | 85 | 86 | 0,69 | 0,75 | 0,85 | 360,4 |
| | | | | 415 | 2925 | 212,1 | 791,0 | 85 | 85 | 86 | 0,66 | 0,73 | 0,84 | 359,1 |
| BSM 10 / 175 | 129 | 175 | 75.000 | 380 | 2920 | 256,3 | 957,0 | 86 | 86 | 87 | 0,76 | 0,81 | 0,88 | 421,9 |
| | | | | 400 | 2935 | 246,3 | 919,0 | 87 | 87 | 88 | 0,72 | 0,77 | 0,86 | 419,7 |
| | | | | 415 | 2945 | 240,2 | 896,0 | 87 | 87 | 88 | 0,69 | 0,75 | 0,85 | 418,3 |
| BSM 10 / 200 | 147 | 200 | 75.000 | 380 | 2910 | 292,1 | 1090,0 | 86 | 86 | 87 | 0,76 | 0,81 | 0,88 | 482,4 |
| | | | | 400 | 2925 | 283,9 | 1059,0 | 86 | 86 | 87 | 0,72 | 0,77 | 0,86 | 479,9 |
| | | | | 415 | 2935 | 273,7 | 1020,0 | 87 | 87 | 88 | 0,69 | 0,75 | 0,85 | 478,3 |
| BSM 10 / 225 | 166 | 225 | 75.000 | 380 | 2900 | 333,7 | 1245,0 | 85 | 85 | 86 | 0,76 | 0,81 | 0,88 | 546,6 |
| | | | | 400 | 2915 | 320,6 | 1196,0 | 86 | 86 | 87 | 0,72 | 0,77 | 0,86 | 543,8 |
| | | | | 415 | 2925 | 312,7 | 1165,0 | 86 | 86 | 87 | 0,69 | 0,75 | 0,85 | 541,9 |


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# TECHNICAL DATA
# BSM(.)6-8-10

**CABLE EXT. SELECTION TABLE**

EXAMPLE: MOTOR 11kW - THREE PHASE 400V - DOL - CABLE LENGTH 60m → 6 mm²

| Direct-On-Line (DOL) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power | | CABLE TYPE AND MAXIMUM LENGTH [M] | | | | | | | | | | |
| [kW] | [HP] | 3x2,5 | 3x4 | 3x6 | 3x10 | 3x16 | 3x25 | 3x35 | 3x50 | 3x70 | 3x95 | 3x120 |
| 4 | 5,5 | 75 | 120 | 179 | 306 | 476 | | | | | | |
| 5,5 | 7,5 | 57 | 92 | 137 | 235 | 365 | 553 | | | | | |
| 7,5 | 10 | 44 | 71 | 106 | 181 | 282 | 427 | 587 | | | | |
| 9,3 | 12,5 | 36 | 59 | 88 | 150 | 233 | 353 | 485 | | | | |
| 11 | 15 | | 50 | 75 | 129 | 200 | 304 | 419 | 582 | | | |
| 13 | 17,5 | | 42 | 63 | 107 | 167 | 254 | 349 | 484 | | | |
| 15 | 20 | | 36 | 54 | 93 | 145 | 220 | 302 | 419 | | | |
| 18,5 | 25 | | | 44 | 75 | 117 | 177 | 243 | 337 | 455 | | |
| 22 | 30 | | | 37 | 64 | 100 | 151 | 208 | 288 | 390 | | |
| 26,5 | 35 | | | | 54 | 85 | 129 | 177 | 246 | 334 | 421 | |
| 30 | 40 | | | | 47 | 74 | 112 | 155 | 215 | 291 | 367 | |
| 37 | 50 | | | | | 60 | 91 | 125 | 174 | 236 | 298 | 362 |
| 45 | 60 | | | | | 49 | 75 | 103 | 143 | 194 | 245 | 298 |
| 52 | 70 | | | | | 44 | 67 | 93 | 129 | 176 | 223 | 272 |
| 55 | 75 | | | | | 41 | 62 | 86 | 120 | 164 | 208 | 255 |
| 60 | 80 | | | | | 37 | 57 | 79 | 110 | 150 | 191 | 233 |
| 67 | 90 | | | | | 33 | 51 | 71 | 99 | 134 | 171 | 209 |
| 75 | 100 | | | | | | 46 | 63 | 88 | 120 | 152 | 186 |
| 81 | 110 | | | | | | 43 | 59 | 82 | 112 | 141 | 172 |
| 92 | 125 | | | | | | 37 | 52 | 72 | 98 | 124 | 152 |
| 110 | 150 | | | | | | | 43 | 60 | 83 | 105 | 128 |
| 129 | 175 | | | | | | | 38 | 53 | 72 | 91 | 112 |
| 147 | 200 | | | | | | | 33 | 46 | 63 | 80 | 98 |
| 166 | 225 | | | | | | | 29 | 40 | 55 | 70 | 86 |



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# TECHNICAL DATA
# BSM(.)6-8-10

**CABLE EXT. SELECTION TABLE**

EXAMPLE: MOTOR 11kW - THREE PHASE 400V - SD - CABLE LENGTH 100m → 6 mm²

| Star-Delta (SD) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power | | CABLE TYPE AND MAXIMUM LENGTH [M] | | | | | | | | | | |
| [kW] | [HP] | 3x2,5 | 3x4 | 3x6 | 3x10 | 3x16 | 3x25 | 3x35 | 3x50 | 3x70 | 3x95 | 3x120 |
| 4 | 5,5 | 112 | 180 | 269 | 459 | | | | | | | |
| 5,5 | 7,5 | 86 | 138 | 206 | 352 | | | | | | | |
| 7,5 | 10 | 66 | 107 | 159 | 272 | | | | | | | |
| 9,3 | 12,5 | 55 | 88 | 132 | 225 | | | | | | | |
| 11 | 15 | 47 | 76 | 113 | 193 | 301 | | | | | | |
| 13 | 17,5 | 39 | 63 | 94 | 107 | 251 | | | | | | |
| 15 | 20 | 34 | 55 | 82 | 140 | 271 | | | | | | |
| 18,5 | 25 | | 44 | 66 | 113 | 176 | 266 | | | | | |
| 22 | 30 | | 37 | 56 | 96 | 150 | 227 | | | | | |
| 26,5 | 35 | | | 48 | 82 | 127 | 193 | 266 | | | | |
| 30 | 40 | | | 42 | 71 | 111 | 169 | 232 | | | | |
| 37 | 50 | | | | 58 | 90 | 137 | 188 | 261 | | | |
| 45 | 60 | | | | 47 | 74 | 112 | 155 | 215 | | | |
| 52 | 70 | | | | 43 | 66 | 101 | 140 | 194 | 265 | | |
| 55 | 75 | | | | 39 | 62 | 94 | 130 | 181 | 246 | | |
| 60 | 80 | | | | 36 | 56 | 86 | 119 | 165 | 226 | | |
| 67 | 90 | | | | 32 | 50 | 77 | 106 | 148 | 202 | | |
| 75 | 100 | | | | | 45 | 69 | 95 | 132 | 180 | 229 | |
| 81 | 110 | | | | | 42 | 64 | 88 | 123 | 168 | 212 | |
| 92 | 125 | | | | | 37 | 56 | 78 | 108 | 148 | 187 | |
| 110 | 150 | | | | | | 47 | 65 | 91 | 124 | 157 | 193 |
| 129 | 175 | | | | | | 41 | 57 | 79 | 108 | 137 | 168 |
| 147 | 200 | | | | | | 36 | 50 | 70 | 95 | 120 | 147 |
| 166 | 225 | | | | | | | 44 | 61 | 83 | 105 | 129 |


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## TECHNICAL DATA
## BSM(.)6-8-10

**NOTE:**

Maximum cable length is evaluated with a voltage drop of 3% at 30°C ambient temperature.

Formulas used for Voltage Drop (ΔE) calculation are the following:

**THREE PHASE - DIRECT (DOL) START TYPE**

$$L \quad \frac{\Delta E \times E}{\sqrt{3} \times 100 \times I \times ((r \times \cos\theta)+(XL \times \sin\theta))}$$

**THREE PHASE - STAR DELTA (SD) START TYPE**

$$L \quad \frac{\sqrt{3} \times \Delta E \times E}{2 \times 100 \times I \times (r \times \cos\theta)+(XL \times \sin\theta)}$$

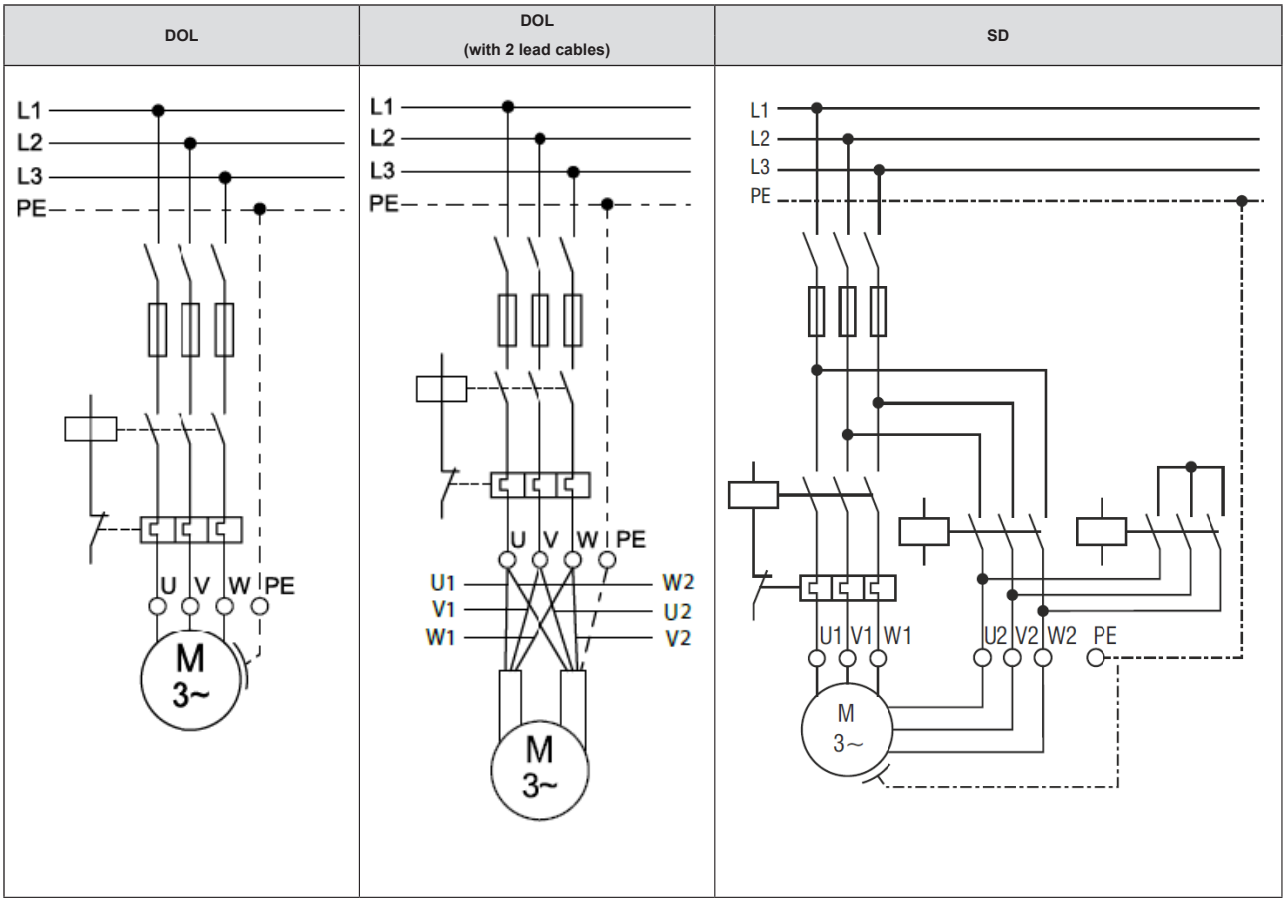
| | | |
|---|---|---|
| L | = Cable length [m] | |
| ΔE | = Voltage drop [%] | |
| E | = Nominal voltage [V] | |
| I | = Current at nominal voltage [A] | |
| XL | = Estimated Inductive Resistance [Ω/km] | = 0,1124 |
| r | = Specific Cable Resistance [Ω/km] | = 24,77 / Sc |
| | where Sc = Cable core section [mm2] | |
| cos θ | = Power factor (A) | |
| sin θ | = Power factor (R) | |



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# TECHNICAL DATA
# BSM(.)6-8-10

ELECTRICAL CONNECTION




**U** = brown **V** = black **W** = grey **PE** = yellow/green

INSULATION RESISTANCE

| Status of the Motor and Power Cables | Ref. Value [MΩ] |
|---|---|
| New motor (which is not in well) or used motor which can be reinstalled in the well | > 20 |
| New motor in the well | > 2 |
| Used motor in the well (good condition) | 0,5 ÷ 2 |
| Damaged motor (it is not mandatory to take the pump out of the well, it can continue working) | 0,02 ÷ 0,5 |
| Damaged motor and power cables (the pump has to be taken out of the well, power cables and motor have to be repaired or replaced. The motor can continue working in this condition but with high risk of fatal failure) | 0,01 ÷ 0,02 |
| Failed motor (the pump has to be taken out of the well, power cables or motor have to be repaired or replaced) | < 0,01 |


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NOTE



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NOTE



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