

# NSCS 80-200/55/P45VCC4

## Technical data

Company name  
Contact  
Phone number  
e-mail address

| Operating data |                           |                  |   |
|----------------|---------------------------|------------------|---|
| 1              | Pumpe type                | Single head pump | Fluid Water, pure                                       |
| 2              | No. of pumps              | 1                | Operating temperature t A °C 4                          |
| 3              | Nominal flow              | m³/h 0           | Max / Min Operating Temperature mech. Seal °C 120 / -25 |
| 4              | Nominal head              | m 0              | pH-value at t A 7                                       |
| 5              | Static head               | m 0              | Density at t A kg/m³ 1000                               |
| 6              | Inlet pressure            | kPa 0            | Kin. viscosity at t A mm²/s 1.569                       |
| 7              | Environmental temperature | °C 20            | Vapor pressure at t A kPa 100                           |
| 8              | Available system NPSH     | m 0              | Altitude 0  |

| Pump data |                       |                                    |                |
|-----------|-----------------------|------------------------------------|----------------|
| 9         | Lubrication           | Standard, Grease lubrication [Std] |                |
| 10        | Execution             | 4 poles motor                      |                |
| 11        | Design                | Horizontal                         |                |
| 12        | Operating speed       | 1450 rpm                           | Stages 1       |
| 13        | Suction nozzle        | DN 100 / PN 16 / EN1092-2          | Impeller Ø     |
| 14        | Discharge nozzle      | DN 80 / PN 16 / EN1092-2           |                |
| 15        | Max. casing pressure  | kPa                                | Flow           |
| 16        | Max. working pressure | kPa 165.6                          |                |
| 17        | Impeller type         | Radial impeller                    |                |
| 18        | Head H(Q=0)           | m 17                               | Head           |
| 19        | Max. shaft power      | kW 5.3                             |                |
| 20        | Pump weight           | kg                                 | Shaft power kW |
| 21        | Total weight          | kg 126.0                           |                |
|           |                       |                                    | Efficiency %   |
|           |                       |                                    |                |
|           |                       |                                    | NPSH 3% m      |
|           |                       |                                    |                |

| Materials |                              |                 |  |
|-----------|------------------------------|-----------------|--|
| 22        |                              | <b>Pump</b>     | <b>Shaft Seal</b>  |
| 23        | Volute Casing                | Cast Iron       | Single mechanical seal, without shaft sleeve                 |
| 24        | Casing Cover                 | Cast Iron       | eMG12 - Ø38mm BQ7EGG-WA                                      |
| 25        | Impeller                     | Cast Iron       | Mechanical seal diameter 38 mm                               |
| 26        | Shaft                        | Stainless steel | 1. Rotating ring Carbon graphite resin impregnated           |
| 27        | Wear ring                    | Stainless steel | 2. Stationary ring SiC, silicon carbide, sintered press.less |
| 28        | Impeller lock nut and washer | Stainless steel | 3. Secondary seal Ethylene propylene rubber (EPDM)           |
| 29        | Impeller key                 | Stainless steel | 4. Springs CrNiMo - Steel                                    |
| 30        | Fill and drain plugs         | Stainless steel | 5. Others EPDM - WRAS  |
| 31        |                              |                 | Gaskets of the pump Ethylene propylene rubber (EPDM)         |
| 32        |                              |                 |  |
| 33        |                              |                 |  |
| 34        |                              |                 |  |
| 35        |                              |                 |  |
| 36        |                              |                 |  |
| 37        |                              |                 |  |
| 38        |                              |                 |  |
| 39        |                              |                 |  |
| 40        |                              |                 |  |
| 41        |                              |                 |  |

| Motor data   |                 |   |                           |
|--|-----------------|---|---------------------------|
| Electrical and dimensional data refer to IE3 motor |                 |   |                           |
| 42   | Manufacturer    | Lowara                                    |                           |
| 43   | Specific design | IE3 3ph Flange Motor - Premium Efficiency |                           |
| 44   | Type            | PLM 132 B5 5,5 kW                         |                           |
| 45   | Rated power     | 5.5 kW                                    | Rated current 11.5 A      |
| 46   | Nominal speed   | 1465 rpm                                  | Rated voltage 400 V       |
| 47   | Frame size      | 132                                       | Service factor 1          |
| 48   | Weight          | kg 62.6                                   | Degree of protection IP55 |

| Remarks |  |  |  |
|---------|--|--|--|
| 49      |  |  |  |
| 50      |  |  |  |
| 50      |  |  |  |
| 52      |  |  |  |

# NSCS 80-200/55/P45VCC4

## Performance curve

Company name  
Contact  
Phone number  
e-mail address

|        | Ø<br>mm | Pump capacity                |           |                | Pump head   |             | Shaft power P2 |         |                | Frequency       | Hz  | 50   |
|--------|---------|------------------------------|-----------|----------------|-------------|-------------|----------------|---------|----------------|-----------------|-----|------|
|        |         | Operating range<br>Min. m³/h | Max. m³/h | η<br>Max. m³/h | H(Q=0)<br>m | η<br>Max. m | P2(Q=0)<br>kW  | Max. kW | η<br>Max. kW   | Operating speed | rpm | 1450 |
| actual | 219     | 32.5                         | 150       | 111            | 16.9        | 13.5        | 5.27           | 4.92    | Nominal flow   | m³/h            | 0   |      |
| Min.   | 0       | /                            | /         | 91.3           | 10.8        | 8.29        | /              | 2.66    | Nominal head   | m               | 0   |      |
| Max.   | 219     | /                            | /         | 111            | 16.9        | 13.5        | /              | 4.92    | Inlet pressure | kPa             | 0   |      |
|        |         |                              |           |                |             |             |                |         | Static head    | m               | 0   |      |

**Power datas referred to:**

hydr. Performance acceptance acc. To EN ISO 9906 Class Grade 3B

Water, pure [100%] ; 4°C; 1000kg/m³; 1.57mm²/s

MEI: >=0,4



