

## I Technical specifications

Operating limits:

| Nominal pressure | $1200 \mathrm{kPa}(12 \mathrm{bar})$ | 174 PSI |
| :--- | :--- | :--- |
| Temperature range | -10 to $120^{\circ} \mathrm{C}($ EPDM $)$ | $14^{\circ} \mathrm{F}$ to $248^{\circ} \mathrm{F}$ |
|  | $+140^{\circ} \mathrm{C}($ SIP, max. 30 min. $)$ | $284^{\circ} \mathrm{F}$ |


|  | DN | Maximum speed min $^{-1}$ | Maximum pressure bar | Volume per revolution I/rev. |
| :---: | :---: | :---: | :---: | :---: |
| TLS 1-25 | $\begin{aligned} & 25 \\ & 1^{\prime \prime} \end{aligned}$ | 950 | 12 | 0,10 |
| TLS 1-40 |  | 950 | 7 | 0,14 |
| TLS 2-40 |  | 950 | 12 | 0,23 |
| TLS 2-50 |  | 950 | 7 | 0,30 |
| TLS 3-50 |  | 720 | 12 | 0,68 |
| TLS 3-80 | $\begin{aligned} & 80 \\ & 3 " \end{aligned}$ | 720 | 7 | 0,95 |

## I Motor and gear unit

Helical gear unit with B5 flange in compliance with the IEC standards and triphasic induction motor 4 poles=1500/1750 rpm, IE-2 efficiency class, IP 55 protection and F-class insulation.

3 phases, $50 \mathrm{~Hz}, 220-240 \mathrm{~V} \Delta / 380-420 \mathrm{VY}, \leq 4 \mathrm{~kW}$
3 phases, $50 \mathrm{~Hz} 380-420 \mathrm{~V} \Delta / 660-690 \mathrm{~V} \mathrm{Y}, \geq 5,5 \mathrm{~kW}$

## I Options

Pump casing with drain port.
Mechanical seal options: SiC/SiC, TgC/SiC, C/StSt.
Lip seal.
FPM gaskets.
External by-pass.
Bi-lobe rotors.
Stainless steel shroud can be mounted without disassembling the pump.
Other drive types and protection classes.
Different types of connections.
Stainless steel trolley.
Polyester or stainless steel control box.

The information is for guidance only. We reserve the right to modify any material or feature without notice in advance. Photos are not binding. For further information, please, consult our web site.

## I Dimensions



|  | DN | D |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | DIN 11851 | SMS | CLAMP |
| TLS 1-25 | $\begin{gathered} 25 \\ 1 " \end{gathered}$ | 158 | 138 | 156 |
| TLS 1-40 | $\begin{gathered} 40 \\ 11 / 2^{\prime \prime} \end{gathered}$ | 166 | 146 |  |
| TLS 2-40 |  | 190 | 170 | 180 |
| TLS 2-50 | $\begin{aligned} & 50 \\ & 2 " \end{aligned}$ | 194 |  |  |
| TLS 3-50 |  | 239 | 215 | 225 |
| TLS 3-80 | $\begin{aligned} & 80 \\ & 3^{\prime \prime} \end{aligned}$ | 256 | 223 | 227 |

## I Dimensions

|  | Gear unit | kW | DN | A | B | C | E | F | G | H | I | J | kg |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| TLS 1-25 | SK01F | 0,55 | 25 | 26 | 625 | 220 | 387 | 2 | 375 | 140 | 200 | 165 | 36 |
|  |  | 0,75 | 25 | 26 | 625 | 220 | 387 | 2 | 375 | 140 | 200 | 165 | 39 |
| TLS 1-40 | SK01F | 0,75 | 40 | 33 | 640 | 220 | 387 | 8 | 375 | 140 | 200 | 165 | 40 |
|  |  | 1,1 | 40 | 33 | 675 | 220 | 392 | 8 | 375 | 140 | 200 | 185 | 44 |
| TLS 2-40 | SK20F | 1,1 | 40 | 33 | 725 | 270 | 448 | 1 | 500 | 170 | 230 | 200 | 59 |
|  |  | 1,5 | 40 | 33 | 725 | 270 | 448 | 1 | 500 | 170 | 230 | 200 | 63 |
| TLS 2-50 | SK20F | 1,5 | 50 | 39 | 735 | 270 | 448 | 6 | 500 | 170 | 230 | 200 | 64 |
|  |  | 2,2 | 50 | 39 | 765 | 270 | 470 | 6 | 500 | 170 | 230 | 200 | 74 |
| TLS 3-50 | SK25F | 2,2 | 50 | 39 | 880 | 353 | 569 | $-13$ | 600 | 200 | 280 | 250 | 121 |
|  |  | 3 | 50 | 39 | 880 | 353 | 569 | $-13$ | 600 | 200 | 280 | 250 | 121 |
|  |  | 4 | 50 | 39 | 925 | 353 | 579 | -13 | 600 | 200 | 280 | 250 | 126 |
| TLS 3-50 | SK33F | 5,5 | 50 | 39 | 1010 | 353 | 604 | -13 | 600 | 200 | 280 | 300 | 156 |
| TLS 3-80 | SK25F | 3 | 80 | 55 | 905 | 353 | 569 | -2 | 600 | 200 | 280 | 250 | 124 |
|  |  | 4 | 80 | 55 | 955 | 353 | 579 | -2 | 600 | 200 | 280 | 250 | 130 |
| TLS 3-80 | SK33F | 5,5 | 80 | 55 | 1035 | 353 | 604 | -2 | 600 | 200 | 280 | 300 | 159 |
|  |  | 7,5 | 80 | 55 | 1035 | 353 | 604 | -2 | 600 | 200 | 280 | 300 | 166 |

