Technical data OMS escalator machine EC 2-25

Gear:
- input-torque, max: \( T_{\text{max}} = 220 \text{ Nm} \)
- input speed: \( n = 1000, 1200 \text{ and } 1500 \text{ min}^{-1} \)
- efficiency: \( \eta_{\text{nom}} = > 96 \% \)
- starting efficiency: \( \eta_{\text{start}} = > 90 \% \)
- backlash \( I = 24.02 \) approx. 0.1° (40Nm test torque in both directions)
- average oil temperature: \( T = 70 \text{ K above ambient temperature} \)
- oil operating time up to: \( t = 40.000 \text{ h} \)
- oil quantity: approx. 13l
- toothing: life time durability
- bearing life time: 146.000 h @ \( p_{\text{equiv}} = 0.8 \times \) nominal motor power
- with equivalent loading: 200.000h @ \( p_{\text{equiv}} = 0.62 \times \) nominal motor power
- sound pressure level: \( L_{\text{p,A}} \leq 64 \text{ dB(A)} \) at 1500min.\(^{-1}\), 25% load, motor \( P_{\text{nom}} = 24kW \), mains operated
- \( L_{\text{p,A}} \leq 64 \text{ dB(A)} \) at 1000min.\(^{-1}\), 25% load, motor \( P_{\text{nom}} = 22kW \), mains operated
- dependent on performance and application
- gear ratio: \( i = 18.7 ; 20 ; 22.4 \) or 24
- for escalator speed: \( v = 0.5 \text{ up to } 0.75 \text{ m/s} \)
- version: Single- and Tandem-units for chain-driving
- suitable for driving escalators and travolators
- position at machine room: left and right (seen from the stairs)
- satisfied safety requirements: DIN EN 115-1:2010 and ASME A17

Motors:
- IE3, 3 phase AC asynchronous motor, 4-and 6 poles, IP 55, integrated fan, suitable for frequency converter
- motor output:
  - 11,7 / 15 / 18,6 / 24 / 30 / 33kW - \( n = 1500 \text{ rpm (50 Hz)}, 4\text{pole} \)
  - 11,7 / 15 / 18,6 / 22kW - \( n = 1000 \text{ rpm (50 Hz)}, 6\text{pole} \)
  - 11,7 / 15 / 18,6 / 24m / 27kW - \( n = 1200 \text{ rpm (60 Hz)}, 6\text{pole} \)
- motor protection:
  - PTC or bimetal-switch
  - type 180 and 225 vertical
- motor-nominal torque: \( T_{\text{nom}} \) to 220 Nm

Brake:
- double circuit safety shoe brake
- braking torque: adjustable up to \( \leq 2.4 \times T_{\text{nom}} \)

Chain wheel:
- version: duplex, triplex and quadruplex
- size:
  - (20A-24A or 20B-24B) (1 \( \frac{3}{4} \text{"}, \frac{1}{2}\text{"}, \frac{1}{4}\text{"}),
- number of teeth:
  - \( z = 17 \) up to 27
- standard:
  - DIN 8187 / 8188 (ANSI)

Dimension:
- see overleaf, total height A according to motor type
- for others contact the manufacturer
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( Technical changes reserved – Last changes 04/2018 )

Machine monitoring:
optional for:  brake function monitor
brake lining wear monitor
vibration measuring sensor
oil bath:
oil:  temperature, level

Safety sensors:
optional for:
overspeed / machine reversing (NDR)
brake distance monitoring

Dimensioned drawing EC 2-25

<table>
<thead>
<tr>
<th>Version:</th>
<th>EC 2-25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear transmission ratio</td>
<td>18,7 ; 19,99; 22,42; 24,02</td>
</tr>
<tr>
<td>Input moment, max.</td>
<td>Nm 220</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>mm</td>
</tr>
<tr>
<td>A, max.</td>
<td>1020</td>
</tr>
<tr>
<td>B max.</td>
<td>543 w/o handwheel</td>
</tr>
<tr>
<td>H, K</td>
<td>Depending on the chaining size</td>
</tr>
</tbody>
</table>
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Left version
Right version