

# Technical data OMS escalator machine EC 2-25



ANTRIEBSTECHNIK

( Technical changes reserved – Last changes 02/2020 )

## Gear :

input-torque, max:  $T_{max.} = 220 \text{ Nm}$   
input speed:  $n = 1000, 1200 \text{ and } 1500 \text{ min}^{-1}$   
efficiency:  $\eta_{nom} = > 96 \%$   
starting efficiency :  $\eta_{start} = > 90 \%$   
backlash @  $I = 24,02$  approx.  $0,1^\circ$  ( 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 @  $p_{equiv.} = 0,8 * \text{nominal motor power}$   
with equivalent loading: 200.000h @  $p_{equiv.} = 0,62 * \text{nominal motor power}$

sound pressure level:  $L_{p,A} \leq 64 \text{ dB(A)}$  at  $1500 \text{ min}^{-1}$ , 25% load,  
motor  $P_{nom}$  24kw, mains operated  
 $L_{p,A} \leq 64 \text{ dB(A)}$  at  $1000 \text{ min}^{-1}$ , 25% load  
motor  $P_{nom}$  22kw, mains operated  
dependent on performance and application  
gear ratio:  $i = 18,7 ; 20 ; 22,4 \text{ or } 24$   
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 115-1:2017 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), 4pole  
11,7 / 15 / 18,6 / 22kW -  $n = 1000 \text{ rpm}$  (50 Hz), 6pole  
11,7 / 15 / 18,6 / 24kW / 27kW -  $n = 1200 \text{ rpm}$  (60 Hz), 6pole  
motor protection : PTC or bimetal-switch  
type : type 180 and 225 vertical  
motor-nominal torque :  $T_{nom}$  to 220 Nm

## Brake:

braking torque : double circuit safety shoe brake  
adjustable up to  $\leq 2,4 * T_{nom}$

## Chain wheel:

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

## Dimension:

see overleaf, total height A according to motor type  
for others contact the manufacturer

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## Machine monitoring:

optional for:

brake function monitor  
brake lining wear monitor  
vibration measuring sensor  
oil: temperature, level

oil bath :

## Safety sensors:

optional for:

overspeed / machine reversing (NDR)  
brake distance monitoring

## Dimensioned drawing EC 2-25

<b>OMS Hypodrive</b>		
<b>Version:</b>		<b>EC 2-25</b>
Gear transmission ratio		18,7 ; 19,99; 22,42; 24,02
Input moment, max.	Nm	220
Dimensions:	mm	
A, max.		1020
B max.		543 w/o handwheel
H , K		Depending on the chaining size



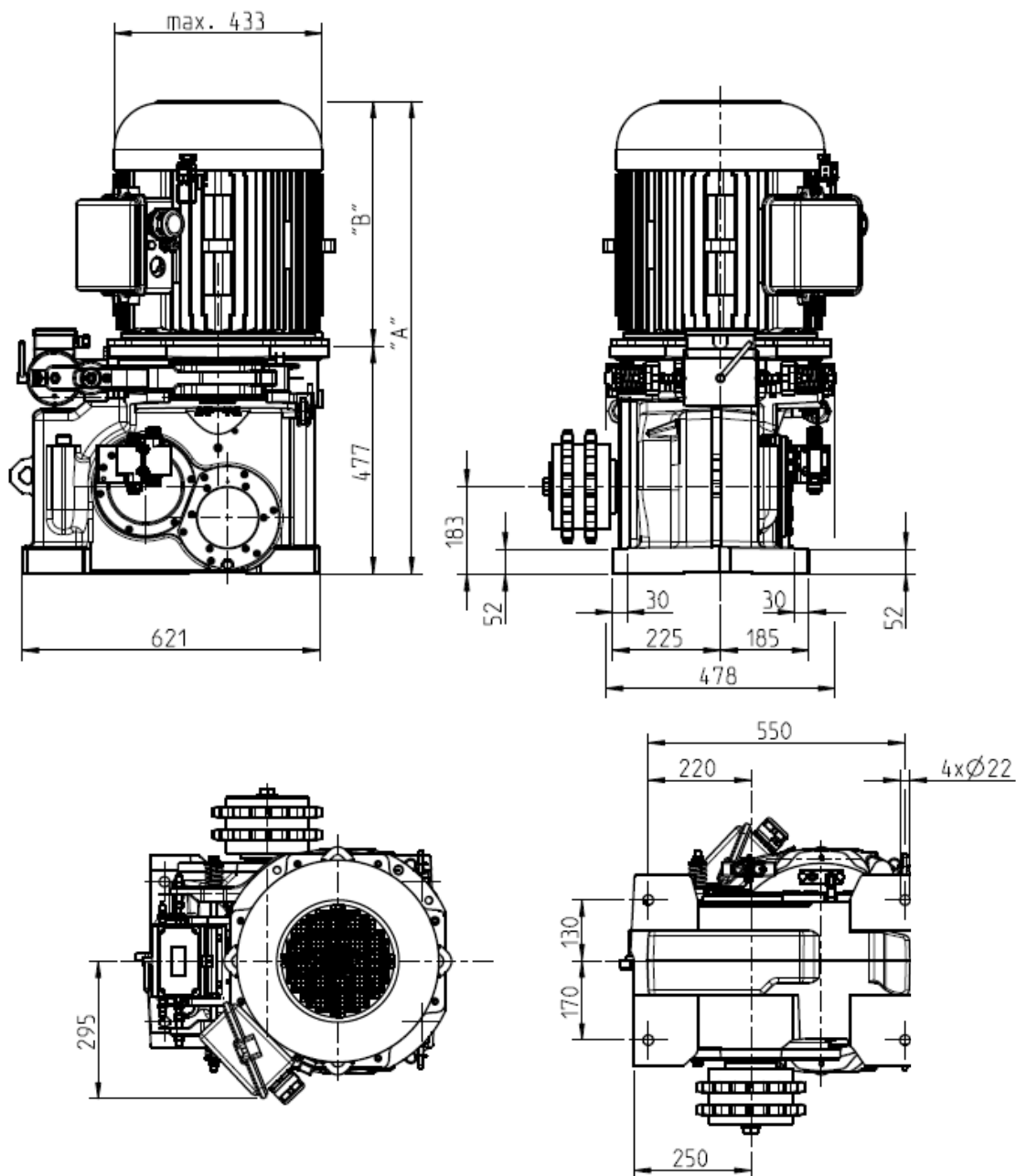
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## Left version



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## Right version

