

Technical data OMS escalator machine EC 2-25

(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 min^{-1} , 25% load,

motor P_{nom} 24kw, mains operated

$L_{p,A} \leq 64 \text{ dB(A)}$ at 1000 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 :

motor output

IE3, 3 phase AC asynchronous motor, 4-and 6 poles, IP 55, integrated fan, suitable for frequency converter

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 / 24m / 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) ($1 \frac{1}{4}"$, $1 \frac{1}{2}"$, $1 \frac{3}{4}"$),

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

oms Hypodrive		
Version:		EC 2-25
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



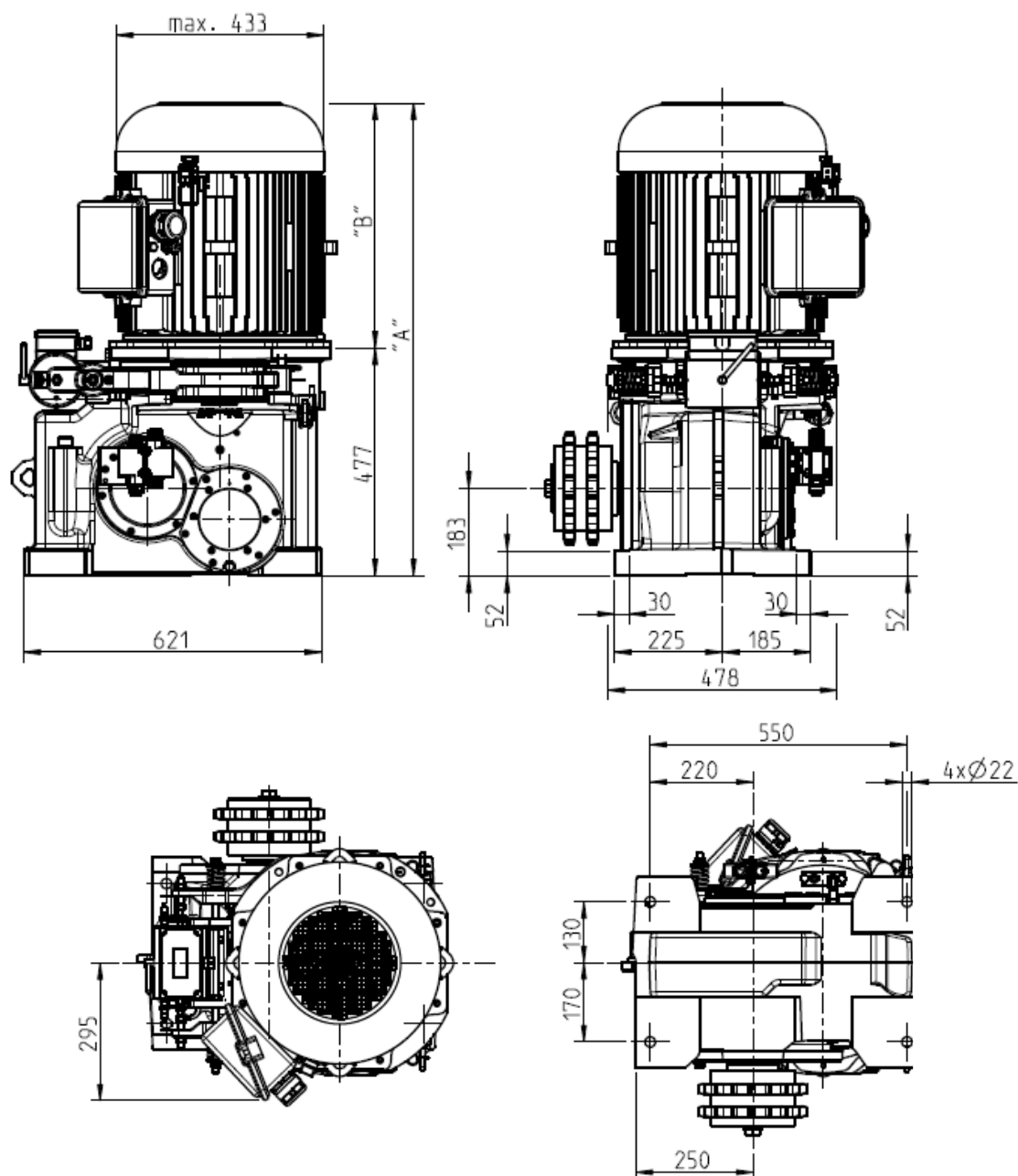
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ANTRIEBSTECHNIK

Left version



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ANTRIEBSTECHNIK

Right version

