

Technical Specifications OMS Hypodrive EC 2-7



ANTRIEBSTECHNIK

Gear :

input-torque, max. : $T_{max.} = 75\text{Nm}$
input revolution : $n = 1500\text{ rpm}$
efficiency : $\eta_{,n} = > 95\%$
starting efficiency : $\eta_{,s} = > 90\%$

average oil temperature : $T = 35 - 40\text{ K}$ above ambient temperature
oil operating time up to : $t = 30.000\text{ hrs}$

toothing : life time durability
bearing life time: 2400 h bei 7.4 kW
with equivalent loading: $p_{equiv.} = 0,44 * \text{nominal motor power}$

noise pressure level (1500 rpm) : $L_p = 63\text{ dB(A)}$ by 1,6 kW

gear ratio $i = 19,44$ or $27,56$ or $29,4$
for escalator speed : $v = 0,50$ up to $0,75\text{ m/s}$

version: single-machine for chain-driving
suitable for use in travelators

position at machine room : left or right side (from the escalator to landing conditions)
fastening to the escalator with feet adapter

Motors :

three phase induction motor, 4 - poles, IP 55,
integrated fan, suitable for frequency converter
with hand wheel for need liberation
ED S6-60%

motor protection : bimetal-switch
frequency: 50 Hz
type : type: 132 4 pole
motor - power : 5,5 / 7,5 kW

Brake:

braking torque : single or double action safety shoe brake
moment of inertia : free adjustable up to approx. $2,4 * T_n$
 $J = 0,39\text{ kgm}^2$

Chain wheel:

version : duplex
size : 20 A-2 or 20 B-2 (1 1/4")
number of teeth : $z = 18$ up to 24
standard : DIN 8187 / 8188 (ANSI)

Dimension:

see overleaf, total height A according to motor type

Machine Monitoring:

optionally for: brake function monitor
brake lining wear monitor
vibration measuring sensors
oil: temperature, level

Safety-Sensors :

optionally for: overspeed / machine reversing (NDR)

oms Hypodrive

version :		EC 2-7
version left		X
version right		X
gear ratio		19,44; 27,56
input - torque	Nm	75
dimension :	mm	
A,max. ***)		862
B		282
C		148
D		523
E1		138
E2		138
G		350
H		231,5
J **)		30
K		271
L		102
***) M , A		dependent on motor size and power

****)** fastening points variable

