

Technical Data OMS – escalator machine EC 2-7

(Technical changes reserved – Last changes 02/2020)



Gears:

input moment, maximum: $T_{\max.} = 75 \text{ Nm}$
input speed : $n = 1000, 1200 \text{ and } 1500 \text{ min}^{-1}$
efficiency: $\eta_{\text{nom}} = > 95 \%$
start up efficiency: $\eta_{\text{start}} = > 90 \%$

average temperature rise in the oil bath: $T = 30 - 40 \text{ K}$ above ambient temperature
oil change intervals up to: $t = 30.000 \text{ h}$
oil quantity: app. 3,2l

Gearing: high-endurance
bearings designed for: 70,000 h
with equivalent load of: $p_{\text{equiv.}} = 0.5 * \text{max. input torque}$

gear ratios: $i = 19.44 ; 22,42 \text{ and } 27.56$

versions: single machine for chain drive
suitable for use in moving walkways

positions in the machine room: left (seen from the stairs)

satisfied safety requirements : DIN EN 115-1:2017 and ASME A17

Motors:

3-phase AC asynchronous motors, IP 55, self-ventilated,
suitable for frequency inverter operation, ED S6-60% or S1
motor output 5.5 / 7.5 / 9.5 - $n = 1500 \text{ rpm}$ (50 Hz), 4pole
5.5 / 7.5kW - $n = 1000 \text{ rpm}$ (50 Hz), 6pole
5.5 / 7.5 / 9.5kW - $n = 1200 \text{ rpm}$ (60 Hz), 6pole
thermal bimetal switch
frame size 132 and 160, motor vertical

motor protection:
type :

sound pressure level: $n \leq 1000 \text{ min}^{-1}$: L_{pA} typ. $60 \leq \text{dB(A)}$ / motor mains operated
(motor 7,5kW, load 25%)
 $n \leq 1500 \text{ min}^{-1}$: L_{pA} typ. $62 \leq \text{dB(A)}$ / motor mains-operated
(motor 7,5kW, load 25%)
dependent on performance and application

Brake:

braking torque: 1- circuit or 2-circuit safety brakes
adjustable up to approx. 2.4-fold T_{nom}

Chain wheel:

design: duplex
size: 20 A-2 and 20 B-2 (1 1/4")
number of teeth: $z = 17 \text{ to } 25$

Dimensions:

see dimensioned drawing, total height A depending on the motor size

Machine monitoring:

optional for: brake function monitoring
brake lining wear monitoring
vibrations sensors

oil bath: temperature, oil level

Safety sensors

optional for: overspeed / machine none reversible detection (NRD)
stopping distance monitoring

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Dimensioned Drawing EC 2-7

Version :		EC 2-7
Left-hand version		X
Right-hand version		X
Gear transmission ratio		19.44 ; 22,42 or 27.56
input moment ,max.	Nm	75
Dimensions:	mm	
A max. (***)		841
B		291
C		157
D		500
E1		138
E2		138
G		350
H		231,7
K		273,6
J**)		30
L		102
F		200
O		264
***) M , A		Depending on the motor size and output

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