

Technical data OMS escalator machine EC 2-15

(Technical changes reserved – Last changes 04/2018)



Gear :

input-torque, max. :	$T_{max.} = 150 \text{ Nm}$
input revolution :	$n = 1000, 1200 \text{ or } 1500 \text{ min}^{-1}$
efficiency :	$\eta_{nom} = \geq 96 \%$
starting efficiency :	$\eta_{start} = \geq 90 \%$
average oil temperature rise :	$T = 30 - 35 \text{ K above ambient temperature}$
oil operating time up to :	$t = 40.000 \text{ h}$
oil quantity	app. 7l
toothing :	life time durability
bearing life time:	70.000 h
with equivalent loading:	$P_{equiv.} = 0,5 \text{ up to } 0,62 \text{ of nominal motor power}$
noise pressure level (1000 min ⁻¹) :	$L_{pA} \leq 60 \text{ dB(A)}$ (25% load at P_{max} 15kW) / motor mains-operated dependent on performance and application
gear ratios :	$i = 24,62$
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 moving walkways option: with coupling for an intermediate gear
position at machine room :	left or right side (seen from the stairs)

Motors :

motor protection :	3 phase asynchronous motor, 4 or 6-poles, IP 55, integrated fan, suitable for frequency inverter
frequency:	PTC or bimetal-switch
type :	50 Hz or 60 Hz
motor-nominal torque :	type 160 vertical T_{nom} to 150 Nm

Brake:

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

version :	duplex or triplex,
size :	(16A-24A or 16B-24B) (1", 1 1/4", 1 1/2", 1 3/4")
number of teeth :	$z = 17 \text{ up to } 30 \text{ @ pitch } 1 \frac{1}{4}''$ $z = 17 \text{ up to } 26 \text{ @ pitch } 1 \frac{1}{2}''$ $z = 17 \text{ up to } 21 \text{ @ pitch } 1 \frac{3}{4}''$

standard :

DIN 8187 / 8188 (ANSI)

Dimension:

see dimensioned drawing, total height A according to motor type

Machine monitoring:

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

Safety sensors :

optionally for:	overspeed / machine none reversing detection (NDR)
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Dimensioned drawing EC 2-15

OMS Hypodrive		
Version :		EC 2-15
version left		X
version tandem		-
gear ratio		24,62
input - torque, max.	Nm	150
dimension:	mm	
A,max. (***)		954
B		359
C		177
D		565
E1		161
E2		161
F1		336
F2		169
F3		130
F4		130
F5		22
G		352
H , K		dependent on chain size
L		141
***) M , A		dependent on motor size and power

