

ENERGY EFFICIENCY VDI 4707

The control system 613 DAVID supports all 4 modes of operation according to VDI 4707.

DAVID 613	OPERATING-MODE	DESCRIPTION	WAKE UP TIME	ACTIVE POWER (Watt)
TRAVEL DEMAND	P0	The component is in function.		38 Watt
DOWNTIME REQUIRED	S0	This component is ready for use.	0 Sec.	38 Watt
	S1	Simplest sleep mode. All displays are completed off.	< = 250 ms.	36 Watt
	S2	Soft-Off mode (deep sleep) doors are closed. The car controller FKR is turned off .	< = 1 Sec.	25 Watt,

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BASICS: THE FIVE USE CATEGORIES

Depending on frequency of use with the help of the five categories can use the downtime and travel needs of an elevator system in an energy efficiency rating to be converted.

USE CATEGORIES	1	2	3	4	5
FREQUENCY OF USE	VERY RARE	RARE	OCCASIONALLY	OFTEN	VERY OFTEN
AVERAGE DOWNTIME	23,8	23,5	22,5	21	18
TYPICAL BUILDING	House to 6 flats	House to 10 flats, Small office building	House to 20 flats, Mediator Office and administrative building	Residential apartment building with more than 50 apartments, high office and administration building, small to medium hospital	office and administration building, > 100m Great hospital, Freight elevator in the production process for multi-shift operation

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BASICS: WEIGHTING OF THE FIVE USE CATEGORIES

Calculation of stagnation energy demand according to VDI 4707 with emphasis on operational modes S0, S1 and S2.

USE CATEGORIES	1	2	3	4	5
WEIGHTING S0	1 %	2 %	5 %	7 %	10 %
WEIGHTING S1	24 %	33 %	60 %	73 %	85 %
WEIGHTING S2	75 %	65 %	35 %	20 %	5 %

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