

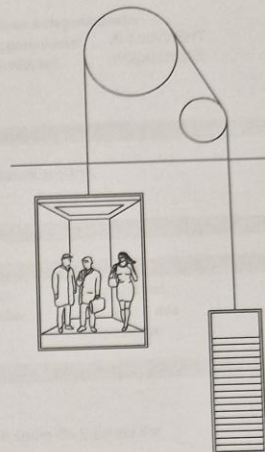
VERIFICATION EN 81-1:2010

MACHINE VERIFICATION

Max machine static load		64,75	[kN]
Calculated static load		52,34	[kN]
Verification	64,75 > 52,34		VERIFIED
Machine max torque		5940	[N]
Calculated torque		4271,84	[N]
Verification	5940 > 4271,84		VERIFIED
Motor asyn. power		20	[kW]
Calculated motor asyn. power		16,47	[kW]
Verification	20 > 16,47		VERIFIED
Rated current (related to 400 V)		42	[A]
Operating current (related to 400 V)		36,06	[A]

ROPES SAFETY

Average bends Diameter		750	[mm]
Kp coefficient	Kp	1	[]
Equal Number	t	7,1	[]
Equal Number	p	1	[]
Equal Number		8,1	[]
Ratio between diameters	D / d	53,57	[]
Specific pressure	5,51 <= 8,18	(EN81.1 : 1985)	
Minimum safety coefficient admissible		12	[]
Calculated safety coefficient		27,86	[]
Verification	27,86 >= 12		VERIFIED



The represented drawings is an indication

FRICITION

Friction coefficient - car's load	μ	0,1	[]
Friction coefficient - emergency braking	μ	0,091	[]
Friction coefficient - bound lift	μ	0,2	[]
Friction coefficient - car's load	f	0,2924	[]
Friction coefficient - emergency braking	f	0,266	[]
Friction coefficient - bound lift	f	0,5848	[]
Max traction - car load	e ^{fa}	2,31	[]
Max traction - emergency braking	e ^{fa}	2,14	[]
Max traction - bound lift	e ^{fa}	5,33	[]

CONDITION: "CAR LOAD OPERATIONS"

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Car side	Cabin empty down	14639,5	Cabin full down		34872,4
	Cabin empty up	13424,9	Cabin full up		33657,8
	Cabin empty down	21336,7	Cabin full down		21336,9
	Cabin empty up	22732,6	Cabin full up		22732,8
T1 / T2	Cabin empty down	1,46 <= 2,31	VERIFIED	Cabin full down	1,63 <= 2,31 VERIFIED
	Cabin empty up	1,69 <= 2,31	VERIFIED	Cabin full up	1,48 <= 2,31 VERIFIED

CONDITION: "EMERGENCY BRAKING"

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Car side	Empty car at the bottom "UP"	13893,4	Full car at the bottom "DOWN"			32397
	Empty car at the top "UP"	12742,9	Full car at the top "DOWN"			31122,7
Cwt	Empty car at the bottom "UP"	22424,2	Full car at the bottom "DOWN"			20249,4
	Empty car at the top "UP"	23893,5	Full car at the top "DOWN"			21576,4
T1/ T2	Empty car at the bottom "UP"	1,61 <= 2,14	VERIFIED	Full car at the bottom "DOWN"	1,6 <= 2,14	VERIFIED
	Empty car at the top "UP"	1,88 <= 2,14	VERIFIED	Full car at the top "DOWN"	1,44 <= 2,14	VERIFIED

CONDITION: "BLOCKED CAR"

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Car side	Car at the bottom "DOWN"	1396	Empty car at the bottom "UP"		14639,3	
	Car bound at the top "DOWN"	0,1	Empty car at the top "UP"		13424,7	
Cwt	CWT at the top "UP"	21336,7	Bound CWT at the top "DOWN"		0,1	
	CWT at the top "UP"	22732,6	Bound CWT at the top "DOWN"		1396	
T1 / T2	Car at the bottom "DOWN"	15,28 >= 5,33	VERIFIED	Bound cwt. at the top "DOWN"	146393,24 >= 5,3	VERIFIED
	Car bound at the top "DOW"	227325,74 >= 5,33	VERIFIED	Bound cwt. at the bottom "DOWN"	9,62 >= 5,33	VERIFIED