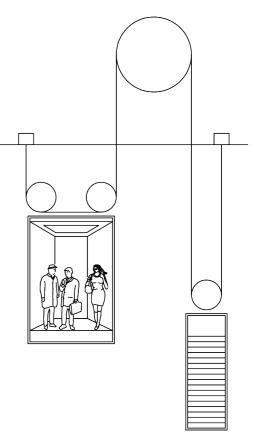


CHARACTERISTICS

PLANT			
Machine room position		Тор	
Roping		1:2	
Compartment efficiency		0,87	
Winding type		CSW	
Expected plant efficiency		0,82	[]
Load	Q	630	[kg]
Car + door + operator weight	Р	800	[kg]
CWT balancing		50	[%]
CWT weight	CWT	1.115	[kg]
Cabin speed	Vc	1	[m/s]
Plant travel		30	[m]
Estimated ropes weight		40,5	[kg]
Ropes compensation		0	[%]
Estimated weight of the compensated ropes		0	[kg]
Estimated weight of the compensated ropes tens	ioner	0	[kg]
Electric cables weight		24	[kg]
Recommended usage categories (VDI4707)		3	[]
Selected usage categories (VDI4707)		3	[]
Duty cycle		35	[%]
Wrapping angle	α	180	[°]
Diverting pulley supported on		Ball beari	ngs
Average diameter of the guide pulleys		320	[mm]
Main diverting pulley side			
No. of total idler/deflection pulleys		3	[]
Ropes type	GUSTAV WOLF	PAWO 819 CA298	W - 1770 -
Ropes resistance class			[N/mm²]
Rope minumum breaking load		46000	[N]
No. of diverting pulleys with reverse band		0	[]
Inertia of installation (full load)		17,46	[kgm²]
Inertia of installation (empty)		13,42	[kgm²]
Calculated rated torque		379,5	[Nm]



The represented drawings is an indication

Machine model SG30145BF Auxiliary ventilation Yes Traction sheave diameter (Ø) 320 [mm] Drive pulley width 125 [mm] Hardened grooves Yes Ropes N 5 [] Ropes diameter d 8 [mm] Groove profile type VSI Gamma angle Y 40 [°] Beta angle ß 0 [°] Distance between grooves 12 [mm]
Traction sheave diameter (Ø) 320 [mm] Drive pulley width 125 [mm] Hardened grooves Yes Ropes N 5 [] Ropes diameter d 8 [mm] Groove profile type VSI Gamma angle γ 40 [°] Beta angle β 0 [°]
Drive pulley width 125 [mm] Hardened grooves Yes Ropes N 5 [] Ropes diameter d 8 [mm] Groove profile type VSI Gamma angle γ 40 [°] Beta angle ß 0 [°]
Hardened grooves Yes Ropes N 5 [] Ropes diameter d 8 [mm] Groove profile type VSI Gamma angle γ 40 [°] Beta angle ß 0 [°]
Ropes N 5 [] Ropes diameter d 8 [mm] Groove profile type VSI Gamma angle γ 40 [°] Beta angle ß 0 [°]
Ropes diameter d 8 [mm] Groove profile type VSI Gamma angle γ 40 [°] Beta angle β 0 [°]
Groove profile type Gamma angle VSI Gamma angle V 40 [°] Beta angle ß 0 [°]
Gamma angle γ 40 [°] Beta angle ß 0 [°]
Beta angle ß 0 [°]
2000 600 900
Distance between grooves 12 [mm]
Brake manifacturer and type MAYR RTW size 350 type 8012
Brake torque 2 * 410 [Nm]
TUV certificates reference EU-BD 845

MOTOR DATA	
Date de la	

Rated speed	120	[rpm]
Rated voltage	360	[V]
Rated frequency	20	[Hz]
Motor poles	20	

REGULATION DATA

Power required	4,78	[kW]
Typ. / Max Operating current	13,22 / 16,03	[A]
Start current at acceleration 0.3 / 0.7 [m/s ²]	15,51 / 18,55	[A]
Installation frequency	19,9	[Hz]
Installation speed	119,4	[rpm]
Start/hour	180	[avv/h]
Machine usage	97,11	[%]

RESCUE CONDITIONS

Estimated system efficiency during emergency		0,90	[]
Min operating voltage at emergency speed	0,3 [m/s]	177	[V]
Max estimated torque during emergency		279,7	[Nm]
Short-circuit maximum torque		275	[Nm]
Speed at shortcircuit maximum torque		0,55	[m/s]

Notice: this document represents a pre-technical analysis of the machine dimensioning process on the basis of the data provided by the buyer C: 47294



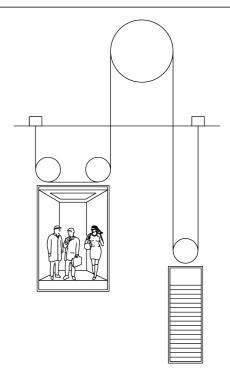


VERIFICATION EN 81-20-50

MACHINE VERIFICATION					
Max machine static load				34,34	[kN]
Calculated static load				13	[kN]
Verification	34,34	>	13	VERIFIED	
Maximum torque				538,2	[Nm]
Start torque at acceleration [m/s²]	445	[Nm]			
Verification 538,2 > 445					IED
Maximum short-circuit torque > Maximum estimated torque during emergency				NOT VERIF.	
Maximum car speed during emergency <= 0,3m/s				NOT VE	RIF.

ROPES SAFETY

Average bends Diameter		320	[mm]
Kp coefficient	Кр	1	[]
Equal Number	t	10	[]
Equal Number	р	2	[]
Equal Number		12	[]
Ratio between diameters	D / d	40	[]
Specific pressure	7,61 <= 6,83	(EN81.1:	1985)
Minimum safety coefficient admissible		19,96	[]
Calculated safety coefficient		31,89	[]
Verification	31,89 > 19,96	VERIF	IED



The represented drawings is an indication

FRICTION

Friction coefficient - car's load	μ	0,1	[]
Friction coefficient - emergency braking	μ	0,0839	[]
Friction coefficient - bound lift	μ	0,2	[]
Friction coefficient - car's load	f	0,2924	[]
Friction coefficient - emergency braking	f	0,2453	[]
Friction coefficient - bound lift	f	0,5848	[]
Max traction - car load	e^fa	2,51	[]
Max traction - emergency braking	e^fa	2,16	[]
Max traction - bound lift	e^fa	6,28	[]
COMPITION HOAD LOAD OPENATIONS			

WIGH LI	action bound int			C IU	0,20	L J
CONDI	TION: "CAR LOAD OPERATION	NS"				
Car	Cabin empty down		4321,4	Cabin full down		8183,9
side	Cabin empty up		4041,8	Cabin full up		7904,4
Curt	Cabin empty down		5469	Cabin full down		5469,1
Cwt	Cabin empty up		5866,3	Cabin full up		5866,4
T1 / T2	Cabin empty down	2,51 > 1,27	VERIFIED	Cabin full down	2,51 > 1,5	VERIFIED
11/12	Cabin empty up	2,51 > 1,45	VERIFIED	Cabin full up	2,51 > 1,35	VERIFIED
CONDI	TION: "EMERGENCY BRAKING	3 "		Calculated deceleration [m/s²]		0,5
Car side	Empty car at the bottom "UP"		4070,4	Full car at the bottom "DOWN"		7819,8
	Empty car at the top "UP"		3825,6	Full car at the top "DOWN"		7505,5
Cwt	Empty car at the bottom "UP"		5753	Full car at the bottom "DOWN"		5185,2
CWI	Empty car at the top "UP"		6190,6	Full car at the top "DOWN"		5542,2
T1 / T2	Empty car at the bottom "UP"	2,16 > 1,41	VERIFIED	Full car at the bottom "DOWN"	2,16 > 1,51	VERIFIED
11/12	Empty car at the top "UP"	2,16 > 1,62	VERIFIED	Full car at the top "DOWN"	2,16 > 1,35	VERIFIED
CONDI	TION: "BLOCKED CAR"					
Car	Car at the bottom "DOWN"		397,4	Empty car at the bottom "UP"		4321,3
side	Car bound at the top "DOWN"		0,1	Empty car at the top "UP"		4041,7
Curt	CWT at the top "UP"		5469	Bound CWT at the top "DOWN"		0,1
Cwt						

Notice: this document represents a pre-technical analysis of the machine dimensioning process on the basis of the data provided by the buyer C: 47294

5866,3

VERIFIED

VERIFIED



6,28 < 86425,1

6,28 < 10,17

397,4

VERIFIED

VERIFIED

Car bound at the top "DOW 6,28 < 117326,6

6,28 < 13,76

CWT at the top "UP"

Car at the bottom "DOWN"

Bound CWT at the bottom "DOWN"

Bound cwt. at the bottom "DOWN"

Bound cwt. at the top "DOWN"