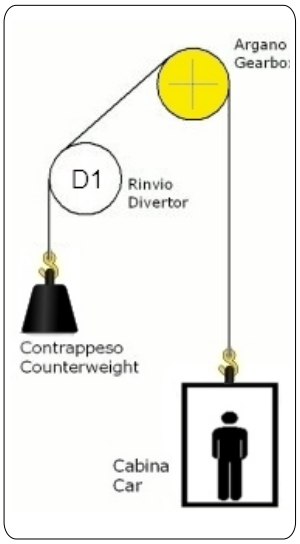
TECHNICAL SHEET

The calculation is based on data supplied by the customer, who is responsible for their correctness.

INSTALLATION DATA

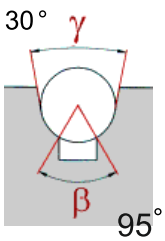
RULE	EN81-20 2014
LOAD [Kg]	450
CABIN SPEED [m/s]	1
ROPING	1:1
CAR WEIGHT [Kg]	600
CABLES WEIGHT [Kg]	12.32
OVERLOAD FACTOR [%]	125
INSTALLATION TRAVEL [m]	28
COUNTERWEIGHT [Kg]	840
COMPENSATION ROPES [%]	0
COMPENSATION CHAIN MASS [Kg]	0
ACCELERATION REQUIRED [m/s²]	0.7
EFFICIENCY OF THE INSTALLATION	0.85
VOLTAGE [V]	380
ACCELERATION VARIATION (JERK) [m/s³]	0.5
STARTS/HOUR	240
INSTALLATION DUTY CYCLE [%]	S5-40%ED

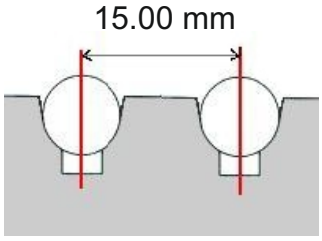


MCK200

TRACTION SHEAVE

TRACTION SHEAVE [mm]	400
TYPE OF GROOVE	Undercut Angle
NUMBER OF GROOVES [no.]	5
WRAP ANGLE [°]	180
WRAP ANGLE ACCORDING TO THE ADHERENCE [°]	[172/180]





OPERATING DATA — RESULTS

OPERATING OUTPUT POWER [Kw]	3.00
MAX STATIC LOAD [Kg]	4000
OPERATING STARTING TORQUE [Nm]	723
OPERATING TORQUE [Nm]	540
CURRENT AT STARTING TORQUE [A]	30.4
OPERATING CURRENT [A]	9
OPERATING SPEED [rpm]	48
OPERATING FREQUENCY [Hz]	12.8
OPERATING THERMIC TORQUE [Nm]	404
GEARLESS INERTIA [Kgm²]	0.31
INSTALLATION INERTIA [Kgm²]	21.64
TOTAL INERTIA [Kgm²]	22

TRACTION ROPES

NUMBER OF ROPES [no.]	5
ROPES WEIGHT [kg]	33.25
ROPE TYPE	UNITED ROPES - 8X19 SEALE+FC
ROPES DIAMETER [mm]	10
ROPES RESISTANCE [N]	33200

RULE CALCULATION RESULTS

MINIMUM SAFETY FACTOR	12.8
EQUIVALENT NUMBER OF PULLEYS	8.70
SPECIFIC PRESSURE (EN81-1:1985) [N/mm²]	7.929
AVERAGE DIAMETER OF ALL PULLEYS [mm]	400
REAL SAFETY FACTOR	18.19
NEQUIVT 6.70	NEQUIVP 2

CALCULATION T1/T2 vs E^(F*A)

LOAD AND UNLOAD OPERATIONS	1,47	< =	1,85	T1=14518; T2=9810; F=0,197; A=180
DOWNWARDS EMERGENCY BREAKING	1,46	< =	1,59	T1=13715; T2=9366; F=0,149; A=180
UPWARDS EMERGENCY BREAKING	1,58	< =	1,59	T1=10589; T2=6695; F=0,149; A=180
CAR/COUNTERWEIGHT BLOCKED	23,46	> =	3,44	T1=6904; T2=294; F=0,394; A=180

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