

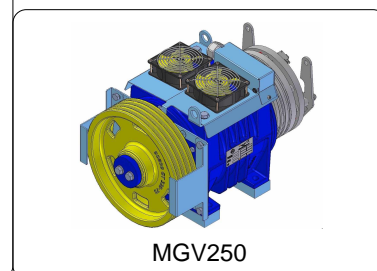
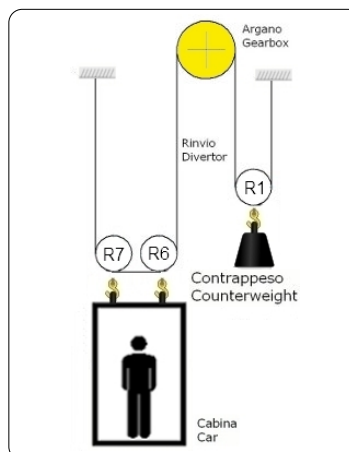


CONFIGURATION	23202 Rev. 2 - Mon Nov 05 17:06:15 CET	USER	MANALB00	COD.CLI: 1062121357
COMPANY	MONTANARI LIFTS COMPONENTS PVT.LTD	ADDRESS	PLOT NO.G3,MIDC CHAKAN, PHASE III NR	
NOTES	680Kg 2:1 1m/s	CITY	CHAKAN PUNE INDIA	
		E-MAIL		

TECHNICAL SHEET

INSTALLATION DATA

RULE	EN81-1 2005
LOAD [Kg]	680
CABIN SPEED [m/s]	1.00
ROPING	2:1
CAR WEIGHT [Kg]	600
CABLES WEIGHT [Kg]	13.20
OVERLOAD FACTOR [%]	125
GEARBOX DISTANCE [m]	0.00
INSTALLATION TRAVEL [m]	30.00
COUNTERWEIGHT [Kg]	940
COMPENSATION ROPES [%]	0
ACCELERATION REQUIRED [m/s ²]	0.70
EFFICIENCY OF THE INSTALLATION	0.85
ACCELERATION VARIATION (JERK) [m/s ³]	0.50
STARTS/HOUR	180.00
INSTALLATION DUTY CYCLE [%]	40.00

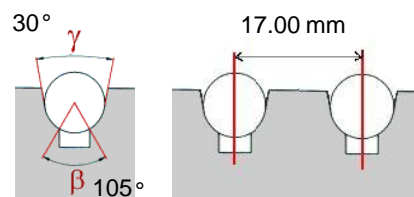


TRACTION ROPES

NUMBER OF ROPES [no.]	5	ROPES DIAMETER [mm]	8.00
ROPES WEIGHT [kg]	33.00	ROPES RESISTANCE [N]	30400.00

TRACTION SHEAVE

TRACTION SHEAVE [mm]	320
TYPE OF GROOVE	ROUND WITH UNDERCUT
NUMBER OF GROOVES [no.]	5
WRAP ANGLE [°]	180



RESULTS

PRODUCT	MGV250	MOTOR POLES [Nr]	16
GEARBOX POWER [Kw]	4.68	MAX. STATIC LOAD [Kg]	3400
REAL STATIC LOAD [Kg]	1142	MAX. TORQUE MOMENT [Nm]	540.00
STARTING TORQUE [Nm]	535.84	MOTOR CURRENT [A]	15.00
OUTPUT TORQUE [Nm]	374.00	MAX. [rpm]	120
MOTOR REAL STARTING CURRENT [A]	22.02	MOTOR RPM [rpm]	119
GEARLESS RMS MOMENT [Nm]	242.27	ROTOR INERTIA [Kgm ²]	0.25
		GEAR INERTIA [Kgm ²]	0.25
		INSTALLATION INERTIA [Kgm ²]	15.39
		TOTAL INERTIA [Kgm ²]	15.64

RULE CALCULATION RESULTS

MINIMUM SAFETY FACTOR	22.75	REAL SAFETY FACTOR	23.02
EQUIVALENT NUMBER OF PULLEYS	17.20	NEQUIVT	15.20
		NEQUIVP	2.00
NOMINAL SHEAVE DIAMETER [mm]	320		

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

LOAD AND UNLOAD OPERATIONS	1.61 <= 1.99	T1 = 7435; T2 = 4610; F = 0.22; A = 180
DOWNWARDS EMERGENCY BREAKING	1.53 <= 1.75	T1 = 6870; T2 = 4478; F = 0.18; A = 180
UPWARDS EMERGENCY BREAKING	1.69 <= 1.75	T1 = 5112; T2 = 3019; F = 0.18; A = 180
CAR/COUNTERWEIGHT BLOCKED	9.29 >= 3.62	T1 = 3007; T2 = 323; F = 0.41; A = 180