

Customer	:	Behran Asanbar
Reference	:	Selection HW140C, 630Kg - 1 m/s (VVVF - 10HP)
Offer	N° :	TEST
	Date	17/01/2017

TECHNICAL SECTION

PLANT		GEARBOX		GEARBOX SELECTION CHECK			
Position	↑	Gearbox type	HW140C	Item	Required	Selected	Test
Roping	1:1	Traction sheave position	┌T (L)	Car rated speed	1,00 m/s	1,00 m/s	-0,0%
Balance	50 %	Ratio	44/1	Output torque	1.274 Nm	1.470 Nm	+15,4%
Duty load	630 Kg	Traction sheave diam.	560 mm	Static load	2.345 Kg	3.100 Kg	+32,2%
Car weight	700 Kg	Ropes number	5	Grooves edges	min 2,0 mm	5,3 mm	OK !!
Counterweight	1015 Kg	Ropes diameter	10	Tr.Sh. Sides	min 3,4 mm	8,1 mm	OK !!
Shaft efficiency	0,80	Groove type	Y	Motor power	6,0 kW	6,8 kW	+13,8%
Car travel	30,0 m	V-Angle	35 °	Ropes safety according to EN81/1:1985			
Ropes compensation	0 %	Undercut angle	105 °	Safety factor	12,0	20,0	OK !!
Rope comp. weight	0,0 Kg	Wrap angle	155 °	Ropes safety according to EN81/1:1998			
Ropes distance	700 mm	Pitch of grooves	17,0 mm	Safety factor	14,1	20,0	OK !!
Car rated speed	1,00 m/s	Undercut	7,93 mm	Traction and spec.press. according to EN81/1:1985			
Mass of tension device	0 Kg	Tract. ropes weight	56,0 Kg	T ₁ /T ₂ * c ₁ * c ₂ (a) =	max 2,247	2,098	OK !!
Weight/m of traveling cable	0 Kg/m	MOTOR		T ₁ /T ₂ * c ₁ * c ₂ (b) =	max 2,247	2,111	OK !!
Ropes strength class	1770 N/mm ²	Drive system	VVVF	Specific pressure	max 8,251	7,259	OK !!
Plant data for		Poles	4	Traction calculations according to EN81/1:1998			
Traction calculations according to EN81/1:1998		Power	6,8 kW	Car loading condition			
Ø average defl.pulley carside	0 mm	Drive system frequency	50 Hz	Car empty low	1,919	1,343	OK !!
Ø average defl.pulley count.side	0 mm	Motor nom.frequency	50 Hz	Car empty up	1,919	1,530	OK !!
Ø pulley for tension device	0 mm	Voltage	380	Car full low	1,919	1,521	OK !!
Main defl.pulley (1=yes;0=no)	1	St/h	240	Car full up	1,919	1,389	OK !!
Pos.defl.pulley (1=car;0=count.)	0	RPM	1500	Emergency braking condition (a=0.5 m/s²)			
Ø main defl. pulley	400 mm	Power	10,1 Hp	Car empty low in up direction	1,813	1,489	OK !!
N° defl.pulleys with simple defl.	0	FLYWHEEL TYPE		Car empty up in up direction	1,813	1,697	OK !!
N° defl.pulleys with reverse defl.	0	Flywheel type	140E	Car full low in down direction	1,813	1,513	OK !!
Friction in the shaft carside	0,0 N	Stg.accel.fl.up		Car full up in down direction	1,813	1,376	OK !!
Friction in the shaft count.side	0,0 N	Retardat.fl.up		Stalled condition			
Wrap angle calculation		Retardat.fl.down		Car stalled low in low direction	6,045	17,696	OK !!
Vert.dist.pulley axis	800 mm	Torque of mech. brake		Car stalled up in low direction	6,045	359,397	OK !!
Wrap angle	170,2 °	Theor.lev.accuracy		Count. stalled up in low dir.	6,045	253,834	OK !!
	OK !!	Total mom.of iner.		Count. stalled low in low dir.	6,045	12,212	OK !!

COMMERCIAL SECTION

OPTIONALS	OFFER
Packing	MESSRS. Behran Asanbar
Bed plate	HEREBELOW PLEASE FIND SUMMARY OF TECHNICAL DATA AND OFFER :
Brake electrom.voltage	- GEARBOX HW140C ; Traction sheave position (L) ; Ratio 44/1
Rope guard	complete in delivery with syntethic oil and use&maintenance manual
Tropicalization	- TRACTION SHEAVE Ø 560 mm ; 5 x ø10 ; Groove type Y ; V-Angle 35 ° ;
Kit encoder	Undercut angle 105 ° ;Undercut 7,93 mm ; Pitch of grooves 17 mm
Rope clamp	- MOTOR ; Drive system VVVF ; 4 Poles ; 6,8 kWasy (10 Hp) ; 380 V ;
Personal/customer Plate	50 Hz ; 240 St/h ;
Special painting	- FLYWHEEL TYPE 140E
	- BRAKE ELECTROMAGNET 200V
	- PACKING Wooden box : HW140C
	- ROPE GUARD
	 Note / assumed data: The following data have been assumed for EN-81 calculation: Considered traction sheave diameter 560mm, ropes 5x10mm, pitch of grooves 17mm Cabin total weight 700kg, travel till 30 mts (10/11 stops), 50% lift balancing (if more than 11 stops, compensation for ropes weight is required) Motor power : 7.3Kwsyn (6.8Kw Asyn)
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	DELIVERY TERMS
	PAYMENT CONDITIONS
	NOTES :
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