

TECHNICAL DATA

PROJECT NO.	: 42299	ITEM NO.	:
BELT BUCKET ELEVATOR SIZE	: BW-G 630/320	BUCKET SPACING [mm]	: 380
DRIVE DRUM Ø [mm]	: 1000	FILLING RATE [%]	: 75
CENTRE DISTANCE [mm]	: 15000	MATERIAL	: Cement
BELT QUALITY	: H 8 (t < 130°C)	BULK DENSITY [t/m³]	: 0.8
CONVEYING CAPACITY [t/h]	: 250	PARTICLE SIZE [mm]	: 1
VELOCITY [m/s]	: 1.54	MATERIAL TEMP. [°C]	: 120
AMBIENT TEMPERATURE [°C]	: 45		

REQUIRED DRIVE DATA

DRIVE SHAFT CAPACITY [kW]	: 13.3
SPEED OF ROTATION [rpm]	: 27.9
TORQUE ON DRIVE SHAFT [kNm]	: 4.5

DRIVE DATA

2.1	AC-MOTOR	: ABB	SPEED OF ROTATION [rpm]	: 1465
	STANDARD	: IEC	SHAFT SIZE [ØxL mm]	: 55 x 110
	TYPE AND SIZE	: 200L	INSULATION	: F/B
	CAPACITY [kW]	: 30	TYPE OF PROTECTION	: IP54
	VOLTAGE [V]	: 380	STRUCTURAL FORM	: B3
	FREQUENCY [Hz]	: 50	WEIGHT [kg]	: 255
	SUPPLIER	: Customer		
2.2	BEVEL-HELICAL GEAR UNIT	: FLENDER	WITH FAN	: yes
	OUTPUT SHAFT DESIGN	: Hollow Shaft	WITH BACKSTOP	: yes
	GEARBOX SIZE	: B3DH6	OIL QUANTITY [l]	: 17
	NOM. POWER RATING [kW]	: 50	INPUT SHAFT [ØxL mm]	: 40 x 70
	NOM. RATIO	: 50	OUTPUT SHAFT [ØxL mm]	: 110 x 383
	DESIGN	: D	SENSE OF ROTATION	: right
	SUPPLIER	: AUMUND	OPERATING WEIGHT [kg]	: 533
	AUXILIARY GEAR UNIT for	: empty buckets	OVERRUNNING CLUTCH	: yes
	GEARBOX TYPE AND SIZE	: KZ 48	SPEED MONITOR	: yes
	MOTOR TYPE AND SIZE	: M90L4-W	OIL QUANTITY [l]	: 2.3
	POWER [kW]	: 1.5	OPERATING WEIGHT [kg]	: 40
	SUPPLIER	: AUMUND		
2.5	TURBO COUPLING	: FLENDER	BORE INPUT SIDE [ØxL mm]	: 55 x 110
	TYPE AND SIZE	: FLUDEX-FAD 342	BORE OUTPUT SIDE [ØxL mm]	: 40 x 55
	SUPPLIER	: AUMUND	OPERATING WEIGHT [kg]	: 36

CONTROL EQUIPMENT

5.1	LEVEL LIMIT SWITCH IN THE BUCKET ELEVATOR BOOT	
	TYPE	: AD311 [CE] (MEPA / FILSA)
	VOLTAGE	: 115 – 230 V AC ; 24 – 250 V DC
5.2	PROXIMITY SWITCH MOVEMENT DETECTOR	
	TYPE	: NJ5-18-GK-N-150 (Pepperl & Fuchs)
	VOLTAGE	: 8 V DC Namur (KFU8-DWB-1.D)
5.3	SPEED MONITOR INSTALLED IN THE MOTION CONTROL CENTRE	
	TYPE	: KFU8-DWB-1.D (Pepperl & Fuchs)
	VOLTAGE	: 48 – 253 V AC ; 20 – 90 V DC
5.4	PROXIMITY SWITCH FOR STRAIGHT-RUN CONTROL OF BELT	
	TYPE	: NCB15+U1+U (Pepperl & Fuchs)
	VOLTAGE	: 20 – 253 V AC ; 20 – 300 V DC
2.11	NON-CONTACTING THERMAL SWITCH UNIT	
	TYPE	: EOC-M18x1.5 / BM5-G18-DYO (Flender)
	VOLTAGE	: 8 V DC Namur (EWD)
2.12	EVALUATOR INSTALLED IN THE CONTROL ROOM	
	TYPE	: EWD/20-250VUC (Flender)
	VOLTAGE	: 20 – 250 V AC / DC
2.13	SPEED INDICATOR IN THE AUXILIARY DRIVE UNIT	
	TYPE	: Bi5-G18-Y1 (Turck / Flender)
	VOLTAGE	: 8 V DC Namur (KFU8-DWB-1.D)
2.14	SPEED MONITOR FOR AUXILIARY DRIVE INSTALLED IN THE MOTION CONTROL CENTRE	
	TYPE	: KFU8-DWB-1.D (Pepperl & Fuchs)
	VOLTAGE	: 48 – 253 V AC ; 20 – 90 V DC