

TECHNICAL DATA

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| PROJECT NO. | : 42293 | ITEM NO. | : |
| BELT BUCKET ELEVATOR SIZE | : BW-G 630/320 | BUCKET SPACING [mm] | : 380 |
| DRIVE DRUM Ø [mm] | : 1000 | FILLING RATE [%] | : 74 |
| CENTRE DISTANCE [mm] | : 48000 | MATERIAL | : Cement |
| BELT QUALITY | : H 12 (t < 130°C) | BULK DENSITY [t/m³] | : 0.8 |
| CONVEYING CAPACITY [t/h] | : 250 | PARTICLE SIZE [mm] | : 1 |
| VELOCITY [m/s] | : 1.57 | MATERIAL TEMP. [°C] | : 120 |
| AMBIENT TEMPERATURE [°C] | : 45 | | |

REQUIRED DRIVE DATA

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| DRIVE SHAFT CAPACITY [kW] | : 36.2 |
| SPEED OF ROTATION [rpm] | : 28.6 |
| TORQUE ON DRIVE SHAFT [kNm] | : 12.1 |

DRIVE DATA

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| 2.1 | AC-MOTOR | : ABB | SPEED OF ROTATION [rpm] | : 1482 |
| | STANDARD | : IEC | SHAFT SIZE [ØxL mm] | : 75 x 140 |
| | TYPE AND SIZE | : 280S | INSULATION | : F/B |
| | CAPACITY [kW] | : 75 | TYPE OF PROTECTION | : IP54 |
| | VOLTAGE [V] | : 380 | STRUCTURAL FORM | : B3 |
| | FREQUENCY [Hz] | : 50 | WEIGHT [kg] | : 590 |
| | SUPPLIER | : Customer | | |
| 2.2 | BEVEL-HELICAL GEAR UNIT | : FLENDER | WITH FAN | : yes |
| | OUTPUT SHAFT DESIGN | : Hollow Shaft | WITH BACKSTOP | : yes |
| | GEARBOX SIZE | : B3DH8 | OIL QUANTITY [l] | : 17 |
| | NOM. POWER RATING [kW] | : 80 | INPUT SHAFT [ØxL mm] | : 50 x 90 |
| | NOM. RATIO | : 50 | OUTPUT SHAFT [ØxL mm] | : 130 x 458 |
| | DESIGN | : B | SENSE OF ROTATION | : left |
| | SUPPLIER | : AUMUND | OPERATING WEIGHT [kg] | : 870 |
| | 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] | : 65 |
| | SUPPLIER | : AUMUND | | |
| 2.5 | TURBO COUPLING | : FLENDER | BORE INPUT SIDE [ØxL mm] | : 75 x 140 |
| | TYPE AND SIZE | : FLUDEx-FAD 450 | BORE OUTPUT SIDE [ØxL mm] | : 50 x 100 |
| | SUPPLIER | : AUMUND | OPERATING WEIGHT [kg] | : 72 |

CONTROL EQUIPMENT

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| 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-DY0 (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 |