The Institute of Materials Handling

Client logo

## Data sheet Vibrating feeder

| | |
|---|---|
| Project name | Document no. |
| Project no. | Revision no. |
| Tag no. | P&ID no. |
| Tag description | Status |

| | Originator | Date | Checked by | Date |
|---|---|---|---|---|
| Process | | | | |
| Mechanical | | | | |
| Electrical | | | | |
| | **Approved by** | **Date** | **Professional registration no.** | |
| Client (if applicable) | | | | |
| Lead engineer | | | | |

### General information

| | |
|---|---|
| Corrosion protection | Reference drawing no. |
| Engineering specifications | Service |
| Installation | |

**Remarks**

### Site

| | | | | |
|---|---|---|---|---|
| Altitude(AMSL) | m | Location | | |
| Ambient temperature maximum | °C | Rainfall | | mm/y |
| Ambient temperature minimum | °C | Wind velocity | | km/h |
| Barometric pressure | kPa | Humidity | | % |
| Underground atmospheric classification | | Class | Division | |

### Process

| **Feed material data** | | | | |
|---|---|---|---|---|
| Capacity maximum | tph | Particle density | | $kg/m^3$ |
| Capacity normal | tph | Bulk density | | $kg/m^3$ |
| Temperature | $^oC$ | Particle shape | | |
| Feed from static head | | Angle of repose | | degree |
| Drop height | mm | Angle of surcharge | | degree |
| Feed type | intermittent/continuous | Moisture content (free) | | %m/m |
| Covered | yes/no | | | |
| No. of feed points | | | | |

| **Material characteristics** | | | |
|---|---|---|---|
| Abrasive | yes/no | Erosive | yes/no |
| Combustible | yes/no | Flowability | free/poor/sticky |
| Corrosive | yes/no | Friable | yes/no |
| Dusty | yes/no | Hygroscopic | yes/no |
| Explosive | yes/no | Toxic | yes/no |

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| **Material particle size distribution** | | | |
|---|---|---|---|
| Component | Size | Cumulative % passing | |
| Size 1 | mm | | % |
| Size 2 | mm | | % |
| Size 3 | mm | | % |
| Size 4 | mm | | % |
| Size 5 | mm | | % |
| Size 6 | mm | | % |
| Size 7 | mm | | % |
| Size 8 | mm | | % |
| Size 9 | mm | | % |
| Size 10 | mm | | % |
| Size 11 | mm | | % |
| Size 12 | mm | | % |

## Mechanical

| **Design data** | | | | |
|---|---|---|---|---|
| Design capacity | kg/h | Feeder overall length | | mm |
| Minimum operating load | kg/h | Feeder overall width | | mm |
| Maximum head above feed | m | Feeder overall height | | mm |
| Inclination maximum | degree | Supports front | yes/no | |
| Inclination minimum | degree | Supports rear | yes/no | |
| Operating cycle | | Support center - lengthwise | | mm |
| | | Support center - breadth | | mm |

| **Support loadings** | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Static | | Dynamic normal | | Dynamic maximum | | |
| | Front | Rear | Front | Rear | Front | Rear | |
| Vertical | | | | | | | |
| Horizontal | | | | | | | kN |

| **Information to be supplied by vendor** | | |
|---|---|---|
| **Materials of construction** | | |
| | Material | Thickness |
| Base | | mm |
| Frame | | mm |
| Liner | | mm |
| Sides | | mm |

| **Drive information** | | | |
|---|---|---|---|
| Manufacturer | | Full load torque at start | N |
| Type | | Full load torque running | N |
| Vibrating frequency | Hz | | |
| **Sound intensity information** | | | |
| Sound intensity actual @ 1m | db | | |

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### Electrical

| **System information** | | | |
|---|---|---|---|
| Supply voltage | V | Type of system earthing | |
| Voltage variations | V | Area classification (SABS 0108) | |
| Maximum voltage unbalance | % | Hazardous gas/dust | |
| Total voltage harmonic content | % | Cable size | $mm^2$ |
| Supply frequency | Hz | Cable type | |
| Temperature classification of gas/dust | | | |
| **Data to be supplied by vendor** | | | |
| Manufacturer | | Equivalent circuit | |
| Frame size | | Winding connection | |
| Year of manufacture | | Insulation class | |
| Serial number | | Insulation type | |
| Rating | kW | Method of cooling (IC Code) | |
| Full load current | A | Method of mounting (IM Code) | |
| Class of rating (IEC 60034-1 class 4 2) | | Lubricant type/grade | |
| Enclosure classification IP code | | Type of explosion protection | |
| Power factor at 100% load | | Efficiency at 100% load | % |
| Power factor at 75% load | | Efficiency at 75% load | % |
| Power factor at 50% load | | Efficiency at 50% load | % |
| Temperature rise | $^oC$ | Break away torque | Nm |
| Locked rotor current | A | Pull out torque | Nm |
| Locked rotor power factor | | Pull up torque | Nm |
| Locked rotor withstand time cold | s | Full load torque | Nm |
| Locked rotor withstand time warm | s | Moment of inertia of load (MIL) | $kg/m^2$ |
| Allowable no. of starts per hour cold | | Moment of inertia of motor rotor | $kg/m^2$ |
| Allowable no. of starts per hour warm | | MIL referred to motor shaft | $kg/m^2$ |
| Maximum thrust continuous (down) | | Temperature rating | |
| Maximum thrust momentary (down) | | Sound intensity | db |
| Type of bearing non-drive end | | Type of bearing drive end | |
| Direction of rotation viewed from non-drive end | | | |
| Terminal box position viewed from non-drive end | | | |
| Speed vs. torque curve at full volts required | | | |
| Speed vs. torque curve at 85% full volts required | | | |
| Speed vs. current curve at full volts required | | | |
| Speed vs. current curve at 85% full volts required | | | |
| Speed vs. power curve at full volts required | | | |
| Speed vs. power curve at 85% full volts required | | | |
| **Inspection & testing** | | | |
| **Mechanical** | | **Electrical** | |
| Motion amplitude | yes/no | Shop inspection required | yes/no |

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### Shipping & installation

| Information to be supplied by vendor | | | |
|---|---|---|---|
| Heaviest lift | kg | Overall height | mm |
| Heaviest maintenance lift | kg | Overall length | mm |
| Weight driver | kg | Overall width | mm |
| Maximum foundation loading | kg | Total shipping weight | kg |
| Net weight | kg | Total shipping volume | $m^3$ |
| Operating weight | kg | | |