

### **Client logo**

## 

Project name
Project no.
Tag no.
Tag description

Document no. Revision no. P&ID no. Status

	Originator		Date	Checked by	Date
Process					
Mechanical					
Electrical					
Licotrical	Approved by	<u>_</u>	Date	Professional regis	stration no
	Approved by		Date	Troicssional region	stration no.
Client (if applicable)					
Lead engineer					
<b>General information</b>					
Corrosion protection			Refer	ence drawing no.	
Engineering specification	ons		Servi	ce	
Installation					
Remarks					
Site					
Altitude(AMSL)		m	Location		
Ambient temperature m		°C	Rainfall		mm/y
Ambient temperature m	inimum	°C	Wind velocit	У	km/h
Barometric pressure		kPa	Humidity		%
Underground atmosphe	eric classification		Class	Division	
Process					
Material handled					
Capacity maximum		tph	Particle dens	sity	kg/m³
Capacity normal		tph	Bulk density		kg/m <sup>3</sup>
Temperature		°C	Particle sha		J
Feed from static head		•	Angle of rep		degree
Drop height		mm	Angle of sur		degree
	tinuous/intermittent		Moisture cor		%m/m
Covered	yes/no		Particle size	, ,	mm
No. of feed points	,		Particle size	median	mm
Drive type			Particle size	minimum	mm
Material characteristic	s				
Abrasive	yes/no		Erosive	yes/no	
Combustible	yes/no		Flowability	free/poor/st	icky
Corrosive	yes/no		Friable	yes/no	
Dusty	yes/no		Hygroscopic	yes/no	
Explosive	yes/no		Toxic	yes/no	
Feeder containment					
Dust tight			Enclosed		



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#### Mechanical

Design data				
Maximum capacity	t	tph	Horizontal pulley centres	mm
Maximum temperature		O	Angle of inclination	degre
Maximum loading		%	Slope at feed point	degre
Apron speed maximum		m/s	Slope at maximum	degre
Apron speed minimum		m/s	Idler spacing carrying	mm
Apron width		mm	Idler spacing return	mm
Apron length		mm	Idler spacing loading point	mm
Height of lift / fall		mm	Power absorbed	kW
Information to be supplied				
Apron data	· · · · · · · · · · · · · · · · · · ·			
Flight width	r	mm	Total apron length	mm
Flight thickness	r	mm	Spillage scraper	yes/no
Flight pitch	r	mm	Material of construction	
Flight rib height	r	mm		
Pulley data				
Drive bearings diameter	r	mm	Bearings type	
Tail bearings diameter	r	mm	Bearings centers	mm
			Bearing manufacturer	
Pulley diameter				
Drive pulley diameter	r	mm	Tail diameter pulley	mm
Drive pulley shaft diameter	r	mm	Tail pulley shaft diameter	mm
Drive pulley profile			Tail pulley profile	
Drive pulley width	r	mm		
Pulley materials of construction	on			
			Material	Thickness
Shell				mm
Discharge				mm
Shaft				
Roller data				
Туре			Bearings type	
Quantity			Bearings centers	mm
			Bearing manufacturer	
Roller diameter				
Carrying roller diameter	r	mm	Return roller diameter	mm
Carrying roller shaft diameter		mm	Return roller shaft diameter	mm
Carrying roller spacing		mm	Return roller spacing	mm
Carrying roller shell thickness		mm	Return roller shell thickness	mm
Chain drive data				
Casing dust tight		mm	Chain drive casing oil tight	yes/no
No. of strands			Chain drive casing weather ti	•
No. of teeth for driven sprocket			Chain drive casing dust tight	yes/no
No. of teeth for drive sprocket			Size	
Service factor				



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V-belt drive data			
Antistatic	yes/no	Туре	
Guards type	yes/no	Location	
Overload protection	yes/no	Supplied by	
Pitch diameter	mm	No. of belts	
Pitch drive pulley	mm	Section	
Pitch driven pulley	mm	Service factor	
Supporting structure	data		
Enclosure	yes/no	Frame length	mm
Enclosure type		Frame width	mm
Walkway required?	yes/no	Frame height	mm
Walkway required on	one side/two sides		
Drive data			
Type	gear/v-belt/chain		
Gear reducer data			
Manufacturer		Base type	
Output speed	rpm	Casing material	
Power rating	kW	Input/output ratio	
Size		Service factor	
Type		Thermal rating	kW
Coupling data			
Gearbox manufacturer			
Gearbox input		Gearbox output	
Fitted by		Fitted by	
Size	mm	Size	mm
Supplied by		Supplied by	
Туре		Type	
Electrical			

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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	
Variable speed yes	/no		
Temperature classification of gas/dust			



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## Data sheet Apron feeder

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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	Α	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	°C	Break away torque	Nm	
Locked rotor current	Α	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 <sup>2</sup>	
Allowable no. of starts per hour cold		Moment of inertia of motor rotor	kg/m²	
Allowable no. of starts per hour warm		MIL referred to motor shaft	kg/m²	
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				
Electrical				
Shop inspection required		Type test		
Routine test				

Shipping & installation

Information to be supplied by vend	dor		
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 <sup>3</sup>
Operating weight	kg		