

Client logo

Data sheet Belt feeder

Project name Project no. Tag no. Tag description

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

	Originator		Date	Checked by	Date
Process					
Mechanical					
Electrical					
	Approved b	v	Date	Professional reg	listration no.
	••				<u>,</u>
Client (if applicable)					
Lead engineer					
General information	1				
Corrosion protection			Refer	ence drawing no.	
Engineering specifications			Service		
Installation					
Remarks					
Site					
Altitude(AMSL)		m	Location		
Ambient temperature m	avimum	°C	Rainfall		mm/y
Ambient temperature m		°C	Wind velocit	tv.	km/h
Barometric pressure	inininani	kPa	Humidity	, y	%
Underground atmosphe	eric classification	ni u	Class	Division	70
Process					
Material handled					
Capacity maximum		tph	Particle den	sitv	kg/m ³
Capacity normal		tph	Bulk density	•	kg/m ³
Temperature		°C	Particle sha		
Feed from static head		U	Angle of rep		degree
Drop height		mm	Angle of sur		degree
Feed type			Moisture co		%m/m
Covered			Particle size	· · ·	mm
Number of feed points			Particle size	median	mm
			Particle size	minimum	mm
Material characteristic	CS				
Abrasive			Flowability		
Combustible			Friable		
Corrosive			Hygroscopic	;	
Dusty			Toxic		
Explosive					
Feeder containment			[nall		
Dust tight			Enclosed		

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Mechanical

Design data				
Maximum capacity	tph	Horizontal pulley centres		mm
Maximum temperature	°C	Angle of inclination		degree
Maximum loading	%	Troughing angle		degree
Belt speed maximum	m/s	Slope at feed point		degree
Belt speed minimum	m/s	Idler spacing carrying		mm
Belt width	mm	Idler spacing return		mm
Belt length	mm	Idler spacing loading point		mm
Height of lift / fall	mm	Power absorbed		kW
Feed area dimensions width	m	length m	area	m²
Information to be supplied by the vendo	r			
Belt data				
Manufacturer		Breaker strip		
Top cover	mm	Edge cut		
Bottom cover	mm	Splice		
Tension maximum operating	N	Material carcase		
Tension rated	N	Material cover		
No. of plies		Rip stop		
Total length	mm			
Belt cleaning data				
Cleaner locations		Cleaner disposal		
Cleaner types				
Pulley data				
Angle of belt wrap on drive pulley	degree	Bearings type		
Drive bearings diameter	mm	Bearings centers		mm
		Tail bearings diameter		mm
Pulley materials of construction				
	Ν	laterial	Thicknes	SS
Shell				mm
Discharge				mm
Shaft				
Pulley diameter				
Drive pulley diameter	mm	Tail diameter pulley		mm
Drive pulley shaft diameter	mm	Tail pulley shaft diameter		mm
Drive pulley profile		Tail pulley profile		
Drive pulley width	mm			
Chain drive data		Idlers data		
Casing dust tight	mm	Carrying		
Chain drive casing		Carrying training		
No. of strands		Impact		
No. of teeth drive sprocket		Return		
Service factor		Return training		
Size		Transition		



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V-belt data		Take up data	
Antistatic		Travel	mm
Guards type		Location	
Overload protection		Туре	
Pitch diameter	mm	Supplied by	
Pitch drive pulley	mm		
Pitch driven pulley	mm		
Section			
Service factor			
Supporting structure data			
Enclosure		Supporting structure type	
Guards location		Windhoops	
Minimum section	mm		
Minimum stringer	mm		
Drive data			
Туре			
Gear reducer data			
Manufacturer		Base type	
Output speed	rpm	Casing material	
Power rating	kW	Input/output ratio	
Size		Service factor	
Туре		Thermal rating	kW
Coupling data			
Gearbox manufacturer			
Gearbox input		Gearbox output	
Fitted by		Fitted by	
Size	mm	Size	mm
Supplied by		Supplied by	
Туре		Туре	
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	
Variable speed yes/no			
Temperature classification of gas/dust			



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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	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	°C	Break away torque	Nm
Locked rotor current	А	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	Kg/III
Maximum thrust momentary (down)		Sound intensity	db
Type of bearing non-drive end		Type of bearing drive end	ab
Direction of rotation viewed from non-dr	ive end	Type of bearing anve one	
Terminal box position viewed from non-			
Speed vs. torque curve at full volts requ			
Speed vs. torque curve at 85% full volts			
Speed vs. current curve at full volts requ			
Speed vs. current curve at 85% full volts			
Speed vs. power curve at full volts requi			
Speed vs. power curve at 85% full volts			
Inspection & testing	loquiou		
Electrical			
Shop inspection required		Type test	
Routine test			
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		