

**MOTOR INFORMATION SHEET**

Sheet 1 of 2

**DRIVEN EQUIPMENT DATA**

Name	Bucket Elevator Drive		
ID(s)	KKS code : 00EAA10AE076,77, 00EAA20AE076,77		
Manufacturer	SIEMENS		
Driven Equip Max Brake Load	1440 N · m	Horsepower (hp) or kW at Design Conditions	185kW

**MOTOR DATA – ALL MOTORS (check choices)**

<input checked="" type="checkbox"/> Horizontal, Foot mounted	<input type="checkbox"/> Vertical	<input checked="" type="checkbox"/> Induction	<input type="checkbox"/> Synchronous
Manufacturer	SIEMENS		
Model	Low voltage squirrel cage induction motor (VVVF Drive Motor)		
Outline/Wiring/Connection Drawing Numbers	TJB56-L3-OFF-C-EAA-E-DRD-0180		
Design Standard*	IEC standard	Nameplate: Volts	400V Class
		Phase	3
		Hz	50
For NEMA Motors - Nameplate hp	NA	Service Factor	1.15
Locked-Rotor Code Letter	NA	NEMA Design Letter	NA
For IEC Motors - Nameplate kW	185		
Max Continuous Voltage (rated frequency)	NA	Min Continuous Voltage (rated frequency)	NA
Duty Type:	<input checked="" type="checkbox"/> Continuous	<input type="checkbox"/> Definite Time (minutes)	Full Load Speed (rpm)
			992
Full Load Current at Rated hp or kW (amps)	360A, 185KW		
Locked-Rotor Current (amps)	2700A	locked rotor current / current nominal=7.5	
NEMA or IEC Enclosure	IP56(IEC)	Frame Size	315L
IEC Cooling (IC Code)	IC416	IEC Mounting (IM Code)	IM B3
Design Ambient Temperature (°C)	40	Insulation System Class	Class-F, B rise
Temp Rise by Resistance (at service factor load) for NEMA Motor (°C)	NA		
Space Heaters (SP) Furnished?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Total SP Load: 218W
			Volts AC230
			Phase 1
Bearings: Type	DE : 6319 C4, NDE : 6319 C4 , Grease replenishment type (Locating bearing NDE)		
Lubrication Type	Bottom head (UNIREX N3)	System	Individual manual
ABMA L-10 Rating Life, Not Less than	6,000	Hours	
Connection: (check one)	<input checked="" type="checkbox"/> Direct	<input type="checkbox"/> Belt	<input type="checkbox"/> Chain
Overall Mean No-Load Sound Pressure Level, re micro-pascals (0.0002 microbar), Reference Distance of 3 Feet	NA		Free Air
Total Motor Weight (lb)	1410kg (Net weight)	Is Motor Reversible?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Multi-Connectable Motors: (check choices)	<input type="checkbox"/> Part Winding	<input type="checkbox"/> Star-Delta	<input type="checkbox"/> Variable Torque
	<input type="checkbox"/> Constant Horsepower	<input type="checkbox"/> PAM	<input type="checkbox"/> Two Winding
	<input type="checkbox"/> Other	<input type="checkbox"/> One Winding	
rpm	FL Amps	LR Amps	rpm
			FL Amps
			LR Amps
rpm	FL Amps	LR Amps	rpm
			FL Amps
			LR Amps
For Motors in Hazardous Locations: Motor Enclosure Maximum Surface Temperature (°C)	NA		
Will Motor Contain a Surface Temperature Control Thermostat Requiring Connection into the Motor Starter Control Circuit?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Motor Full-Load Efficiency as Defined by NEMA MG-1-2006 Tables 12-10, 12-11, and 12-12: (check one)	<input type="checkbox"/> Normal Efficiency IE1(IEC)	<input type="checkbox"/> Energy Efficient IE2(IEC)	<input checked="" type="checkbox"/> Premium Efficiency IE3(IEC)
	Full Load Nominal Efficiency Rating		NA

\*NEMA, IEC, etc.

Painting specification : C5 or equivalent.



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**Sheet 2 of 2**

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**ADDITIONAL MOTOR DATA TO BE SUBMITTED**

**Motors 100 hp (75 kW) and Larger and for All Motors Rated Above 1000 Volts NA**

Efficiency, Percent Guaranteed, Load:	1/2	95.6	3/4	95.9	4/4	95.8
Power Factor, Percent Guaranteed, Load:	1/2	0.67	3/4	0.77	4/4	0.82
Power Factor at Locked Rotor Current	0.82					
Minimum Starting Voltage in Percent of Rated Voltage: Calculated	NA			Specified	NA	

Accelerating Time:

At Rated Voltage (seconds)	NA
At Minimum Specified Starting Voltage (seconds)	NA

Locked-Rotor Safe Stalled Time (seconds):

	Rated Voltage	Minimum Specified Starting Voltage
Motor Initially at Maximum Specified Ambient Temperature (Cold)	64	NA
Motor Initially at Service Factor Load Operating Temperature (Hot)	41	NA

**For All Motors Rated Above 1000 Volts NA**

Current and Torque Versus Speed Curves at Maximum, Rated, and Minimum Specified Starting Voltage.						
Drawing Number						(Attach curves.*)
Power Factor and Efficiency Versus Speed Curves at Rated Voltage.						
Drawing Number						(Attach curves.*)
Current Versus Time Curves at Maximum, Rated, and Minimum Specified Starting Voltage.						
Drawing Number						(Attach curves.*)
Locked-Rotor Thermal Limit Curves (current versus time), Curves in Both Cold and Hot Operating Conditions, and Stator Running Thermal Overload Curves at Rated Voltage.						
Drawing Number						(Attach curves.*)
Torque in: (check one)	<input type="checkbox"/> lb-ft	<input type="checkbox"/> N-meter				
Locked-Rotor Torque		Pull-up Torque		Breakdown Torque		
Inertia in: (check one)	<input type="checkbox"/> lb-ft <sup>2</sup>	<input type="checkbox"/> GD <sup>2</sup>				
Motor Rated		Motor Rotor		Driven Equipment		Coupling
Temperature Alarms and Trips for Motors Equipped with Sensors:						
Stator Winding RTD	Alarm (°C)		Trip (°C)			
Bearing Temperature	Alarm (°C)		Trip (°C)			
Motor Subtransient Reactance				Motor Open Circuit Time Constant		
Short-Circuit Time Constant				Starting Power Factor		

**Number of Successive Starts: NA (VVVF drive motor)**

	At Rated Voltage
Motor Initially at Maximum Specified Ambient Temperature (cold with driven equipment connected), number	
Motor at Rated Temperature Rise Prior to Starting (hot with motor coupled), number	
Cooling Period Required After Completion of the Preceding Maximum Number of Successive Starts Before Making Additional Starts, minutes	
Motor Stopped Cooling Time Constant, minutes	
Motor Running Cooling Time Constant, minutes	

**List of Drawings and Specifications:**

Lubrication Oils and Greases, drawings	NA
External Fluid Circuits for Bearing Cooling, drawings	NA
External Fluid Circuits for Stator Cooling, drawings	NA

\*Submit tabulated data with curves for high inertia loads.

