

Manufacturing Range

sdtork[®]
An ISO 9001:2008 Certified Company



1000-Series



2000-Series



3000-Series



4000-Series



5000-Series



6000-Series



7000-Series



8000-Series

10000-Series



SDTORK Controls Pvt. Ltd.
Complete solution in Valve Automation

SDTORK comprises a dynamic and committed team of young professionals blended with expertise and experience - Technocrats, Engineers and Managers. Sdtork team is well aware of the latest developments in modernization and automation with stress on economy, efficiency and quality. The present trend is 'speed' which means replacement of rather sluggish and outdated mechanical devices with faster and modern electronic and electrical devices. Sdtork is precisely in this business of automation of valves through intelligent approach to the same.

SDTORK's motto is **Technology + Field Engineering + Implementation + Back-up supports**. Sdtork team strives to give an optimal return to the customer for the money and effort they put in, in other words, keep the customer entirely satisfied.

With the above objectives in mind, SDTORK has developed Electric Actuators - 'Intelligent Actuators' to suit every valve application. The latest technology like PROFIBUS-interface is adopted in these Intelligent Actuators to provide greater advantage to the end user, apart from using feed-back devices and fail-safe devices. These Intelligent Actuators are designed for both on-off [open-close] application and also modulating application. Sdtork Intelligent Actuators are customer friendly and guarantee precise control every time, with repeated operations also. With a variety of valve types, Sdtork uses special adaptors with the Intelligent Actuators to suit each valve type for greater customer satisfaction.

Sdtork team assures that the customer will ever love to approach Sdtork for their further needs and will never regret the decision to go with Sdtork.

Innovation Facilitation

REPLACE OR RETROFIT ?

To keep pace with technological innovations, and improve efficiency and economy of operations, the continuous challenge before the plant managers is : Replace or Retrofit (i.e) go in for new facilities or upgrade existing facilities. The current facilities like pipes and valves may, by and large, cater to present and future requirements. Hence the need of the hour is solution through technology combined with innovation, in other words, 'Technovation'.

Sdtork steps in here to provide technovation solutions to a meaningful and optimal degree. A wide range of options with varied applications give Sdtork cutting edge to offer optimum solutions for almost all valve and actuator upgradation needs. Configured for total upgradation, it adapts well to the existing plant logistics, leading to greater economy of operations. Sdtork's actuators are designed for smooth operation and relative ease of maintenance.

THE ADVANTAGES OF TECHNOVATION

Field Engineering upgradation concept has the following inbuilt advantages:

- Modifications required are minimal
- Shutdown time to carryout the changes is very much on the lower side
- Continuous technical assistance is available during the upgradation process
- Extended lifetime of the installation
- Exposure to latest ideas in modernisation and automation
- Improved efficiency with comparatively lower investment
- Economy of scales of operation
- In effect, allround improvement in efficiency and economy

OPERATING INSTRUCTIONS

Operator to diagram
Diagnose the problem faced.

SDTORK FACILITIES

TECHNOLOGY :

Basis for Technological support is the Questionnaire on Valve / Actuator, to be filled in by the operator.

FIELD ENGINEERING :

Visit Site, Size-up site conditions, collect further relevant field data as necessary, in association with the operator.

IMPLEMENTATION :

Assistance to the operator in Retro-Fitting work at site.

BACK-UP :

Back-up technological support is provided on request



SDTORK Technovation Solutions

Sdtork upgradation concept helps to eliminate, to the maximum extent, all the unknown and unforeseen elements in a process through valve automation with electric actuators. Sdtork offers total logistical solutions for entire system control by installing Sdtork make electric actuators; additionally automation of other control factors like level monitoring, flow monitoring, and control panel can also be offered, on request. This gives an added advantage to valve users to make full use of Sdtork's Technological expertise.

How and When to approach?

Contact Sdtork 'Upgradation Facilitation Centre.' Any time! Sdtork will depute their Field Representative, a Technocrat, to the site; this representative will make a complete survey, collect relevant data, size-up site conditions, disseminate the data, assess the needs taking an overall view, and submit a viable solution with attendant costs, i.e., an effective quotation will be submitted. On receiving the go ahead signal in writing, Sdtork will take up the work and execute the same in a time frame of a few weeks to a few months depending on the quantum of work.

Why?

The simple, foremost and logical need for going in for valve automation is improved efficiency resulting in economy. From a 'Centralized Control Centre', control of several valves can be effected and with continuous feed-back, timely corrective action can also be initiated automatically, which is virtually impossible to achieve with manual operation. Another vital point is that unfavourable conditions for human beings like heat, fire, fumes, hazardous chemicals, adverse weather conditions will have little effect on operation and control of process. Added to these is the consistency in product quality due to high degree of automation. Sdtork has a good repertoire of technically competent personnel to take up upgradation and retrofitting work.

We at Sdtork committed to the ultimate measure of Quality which confirms the complete customer satisfaction and the only way to guarantee a successful and lasting presence in today's market.

Not only is the functional capability of our products and a continuous development programme key to our company fundamentals, the application of our quality concept is present in all areas of the business including, development, manufacture, suppliers services and our own purchasing and sales departments.

Our customers are the source of our business, their ideas and wishes must be realized through the products of Sdtork offers.

The greatest asset of our company is its work face. All embracing quality is not the result of individual effort, but of successful team work. The capacity to develop new ideas, to accept responsibility and to show initiative and creativity all lead to the continued progress of the firm this way of working has to be achieved at every level and is assured by on going training.

By regular personal contact with the user, we can rapidly come up with appropriate solutions. This is based on Sdtork's specialist know - how in intensive fields of

Selection Guide Line For Electrical Actuators

TYPE OF VALVE	MOVEMENT	SERIES	ELECTRICAL ACTUATOR RANGE
Ball Valves Plug Valves Butterfly Valves Dampers & Diverters	Quarter turn 	1000	Single phase Quarter turn Electrical Actuator Torque range : 20 Nm to 600 Nm Out put speed : 17 to 80 Sec/90°
Globe Valves Gate Valves Rotary Valves with lever	Linear 	2000	Single phase linear Electrical Actuator Thrust range : 50 kgs to 1200 kgs Out put speed : 0.24 to 1 mm/Sec
Globe Valves Gate Valves Knife-gate Valves Diaphragm Valves Sluice Valves	Multi-turn 	3000	Three phase multi-turn Electrical Actuator Torque range : 20 Nm to 300 Nm Out put speed : 10 to 365 RPM
Globe Valves Gate Valves Knife-gate Valves Diaphragm Valves Sluice Valves	Multi-turn 	3000-SG	Three phase multi-turn Electrical Actuator + spur gear box Torque range : 54 Nm to 3600 Nm Out put speed : 0.4 to 1.32 RPM
Ball Valves Plug Valves Butterfly Valves Dampers & Diverters	Quarter turn 	4000	Three phase Quarter turn Electrical Actuator Torque range : 60 Nm to 500 Nm Out put speed : 40 or 80 Sec/90°
Ball Valves Plug Valves Butterfly Valves Dampers & Diverters	Quarter turn 	4000-WG	Three phase multi-turn Electrical Actuator + Worm gear box Torque range : 180 Nm to 102000 Nm Out put speed : 5 to 1844 Sec/90°
Rotary Valves with lever Damper & Diverters	Quarter turn 	5000	Three phase multi-turn Electrical Actuator + Worm gear box + lever + Mounting bracket Torque range : 60 Nm to 102000 Nm Out put speed : 5 to 1844 Sec/90°
Globe Valves Gate Valves Rotary Valves with lever	Linear 	6000	Three phase linear Electrical Actuator Thrust range : 200 kgs to 5000 kgs. Out put speed : 0.83 to 11.66 mm/sec
Damper & Diverters	Linear / Angular 	7000	Three phase thruster Electrical Actuator Thrust range : 200 to 3500 kgs Out put stroke : 50 to 1000 mm Out put speed : 2 to 90 mm/sec
Globe Valves Gate Valves Knife-gate Valves Sluice Valves	Multi-turn 	8000	Three phase multi-turn Electrical Actuator + Bevel gear box Torque range : 40 Nm to 1200 Nm Out put speed : 3.33 to 46.67 RPM

development and manufacture.

The quality of our products is undeniably dependent on the performance of our suppliers. Thorough reviews are undertaken and documented and serve as the basis for a close customer supplier relationship.



Test Jig for Testing & Calibration of Electrical Actuator



Torque Testing Jig

1000 Series

Single Phase Quarter Turn Electrical Actuator

SDTORK Electric Actuator type 1000 Series have been designed for remote control of Ball valves, Butterfly Valves, Dampers & Other actuating devices, Which require up to 90° rotary actuation & tight closure in end positions.

They are simple in design with compact in size and lighter in weight due to high grade aluminium alloy housing.



Also available in Flame Proof Version



New series developed for light duty application

Available Torque Range upto 600 Nm



Ball Valve with Electric Actuator



Butterfly Valve with Electric Actuator



VIV Damper with Electric Actuator



Plastic Ball Valve, Butterfly Valve with Electric Actuator



Technical Specification of Actuator

SPECIFICATION	DETAILS
Supply Voltage	Single phase 230 V +/-10%, 50 Hz +/-5%, also available in 24 V AC / 110 V AC Supply.
Duty	S2-10 min, S4-30% - 1200 cycles/hour.
Insulation resistance	At least 20 MW under dry condition : At least 2 MW after a damp test.
Actuator life	at least 1x10 ⁶ operations with a running time of 0.75 s at the rated torque.
Self-locking	Self-locking facility of the actuators is provided by mechanical locking feature of worm & worm wheel mechanism.
Local position Indicator	A continuous local mechanical position indicator is provided with actuator which always gives a faithful indication of actuator position independent of power supply.
Adjustable mechanical stoppers	Two adjustable mechanical stoppers are provided with actuator in open & close direction. This feature gives backup safety to final control device.
Auxiliary limit switches	Maximum four numbers of micro limit switches for end position can be provided. Type: 1 NO+1NC change over contact, Contact rating: 10A, 125 - 250 V AC.
Intermediate limit switches	Maximum two numbers of micro limit switches for intermediate end position can be provided. Type: 1 NO+1NC change over contact, Contact rating: 10A, 125 - 250 V AC.
Torque limit switches	Maximum two numbers of micro limit switches for end positions can be provide. Type 1 NO + 1NC change over type, Contact rating: 10A, 125- 250 V AC.
Feed back Potentiometer	A multi turn pot meter is used for 100-235 ohms out put feedback value
Position controller	Field/Panel mounted having Input signal: 4-20mA / 0-10 V DC
Position Transmitter	Actuator mounted having Input from actuator mounted Potentiometer & output will be 4-20mA proportionate.
Remote position indicator	Panel mounted digital position indicator for 0-100% open indication.
Space heater	To prevent water condensation, the actuator are fitted with an anti condensation heater called as space heater, the latter can be connected to the AC or DC voltage of 230 V.

Special accessories also can be supplied on request after confirmation with SDTORK.

Technical Data

ACTUATOR	UNIT	MODEL NUMBER						
		1000-03	1000-05	1000-10	1000-20	1000-30	1001-40	1001-50
Model No.		1000-03	1000-05	1000-10	1000-20	1000-30	1001-40	1001-50
Rated Torque	Nm	30	50	100	200	300	400	500
Working Stroke	degree	90	90	90	90	90	90	90
Operating Speed	sec/90°	17	17	20	20	26	80/40	80/40
Duty		S2-10 min : S-4-30% - 1200 Cycles/hour						
Weight	Kgs	8	9	12	13	25	35	37
Degree of Protection		IP65	IP65	IP65	IP65	IP65	IP65	IP65
Area of Operation		Safe	Safe	Safe	Safe	Safe	Safe	Safe
Supply Voltage	Volts	230 +/- 10%	230 +/- 10%	230 +/- 10%	230 +/- 10%	230 +/- 10%	230 +/- 10%	230 +/- 10%
Supply frequency	Hz	50 +/- 5%	50 +/- 5%	50 +/- 5%	50 +/- 5%	50 +/- 5%	50 +/- 5%	50 +/- 5%
Output Watt	Watts	88	110	154	220	264	180	180
Nominal Current	Amps	0.38	0.48	0.67	0.96	1.15	1.8	1.8
Motor Speed	RPM	60	60	60	60	60	1400/2800	1400/2800
Class of Insulation		F	F	F	F	F	F	F
Ambient temperature	°C	45	45	45	45	45	45	45

1001-ECO Series

Technical Data Sheet

ACTUATOR	UNIT	MODEL NUMBER							
Model No.		SD-1001-03-ECO	SD-1001-05-ECO	SD-1001-10-ECO	SD-1001-20-ECO	SD-1001-30-ECO	SD-1001-40-ECO	SD-1001-60-ECO	SD-1001-100-ECO
Rated Torque	Nm	30	50	100	200	300	400	600	1000
Working Stroke	degree	90	90	90	90	90	90	90	90
Operation Speed	Sec/90°	20	20	30	30	30	30	45	50
Duty		S2-10 min : S-4-30% - 1200 Cycles/hour							
Weight	Kgs	2.6	2.6	4.5	9	10	10	10	12
Degree of Protection		IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65
Area of Operation		Safe	Safe	Safe	Safe	Safe	Safe	Safe	Safe
Supply Voltage	Volts	220 +/- 10%	220 +/- 10%	220 +/- 10%	220 +/- 10%	220 +/- 10%	220 +/- 10%	220 +/- 10%	220 +/- 10%
Supply Frequency	Hz	50 +/- 5%	50 +/- 5%	50 +/- 5%	50 +/- 5%	50 +/- 5%	50 +/- 5%	50 +/- 5%	50 +/- 5%
Motor Output Speed	RPM	1400	1400	1400	1400	1400	1400	1400	1400
Motor Power	Watts	15	15	25	40	90	90	90	100
Rated Current	Amps	0.24	0.24	0.32	0.88	1	1	1	1.2
Class of Insulation		F	F	F	F	F	F	F	F
Ambient Temperature	°C	45	45	45	45	45	45	45	45
Actuator Mounting		F03 & F05	F03 & F05	F05 & F07	F07 & F10	F07 & F10	F07 & F10	F07 & F10	F10 & F12
Output Bore	mm	14x14 17mm Deep	14x14 17mm Deep	17x17 20mm Deep	22x22 25mm Deep	22x22 25mm Deep	22x22 25mm Deep	22x22 25mm Deep	27x27 45mm Deep

- Alternate option for voltage available on demand. (24V / 110V AC & 24 VDC)
- Alternate options for degree of Protection for Enclosure available
- Also available for alternate stroke range
- Over torque protection & space heater option available on demand
- Valve torque for same size varies with different manufacturers & different working conditions. Hence we suggest, when you choose the model of electrical actuator, consider rated output torque of 60-80% for valve operation torque.
- Paint Shade RAL 5021
- Stroke : $90^{\circ} \pm 5^{\circ}$

1001 - Series

Single/Three Phase - Quarter Turn Flame Proof Electrical Actuator

Sr. No.	Model No.	Rated Torque	Tripping Torque Range	Output Speed	Operation Time	Output Bore Mounting PCD	Motor Data : Type : Three Phase Squireerl cage Induction Motor				Appr. Wt.	Item Code		
							Supply	Rating	Speed	Current				
							at 50 HZ	Watts	RPM	Amp				
1	FSD-1001-20 / 40 / 50	200	60-200	0.187	80	DIA.45, F10 / F12	1 PH 230 VAC 50 Hz	60	1400	0.4	32	FSD-1001-20-0.187-1		
				0.375	40			90	2800	0.5		FSD-1001-20-0.375-1		
				0.750	20			90	2800	0.5		FSD-1001-20-0.750-1		
				1	15			90	2800	0.5		FSD-1001-20-1-1		
				0.187	80		3 PH 415 VAC 50 Hz	120	1400	0.4		FSD-1001-20-0.187-3		
				0.375	40			180	2800	0.45		FSD-1001-20-0.375.3		
				0.750	20			180	2800	0.45		FSD-1001-20-0.750-3		
				1	15			180	2800	0.45		FSD-1001-20-1-3		
		2	FSD-1001-20 / 40 / 50	400	120-400	0.187	80	DIA.45, F10 / F12	1 PH 230 VAC 50 Hz	90	1400	0.45	32	FSD-1001-40-0.187-1
						0.375	40			180	2800	1		FSD-1001-40-0.375-1
						0.750	20			180	2800	1		FSD-1001-40-0.750-1
						1	15			180	2800	1		FSD-1001-40-1-1
						0.187	80		3 PH 415 VAC 50 Hz	120	1400	0.4		FSD-1001-40-0.187-3
						0.375	40			180	2800	0.45		FSD-1001-40-0.375.3
0.750	20					180	2800			0.45	FSD-1001-40-0.750-3			
1	15					180	2800			0.45	FSD-1001-40-1-3			
3	FSD-1001-20 / 40 / 50			500	150-600	0.187	80	DIA.45, F10 / F12	1 PH 230 VAC 50 Hz	90	1400	0.45	32	FSD-1001-50-0.187-1
						0.375	40			180	2800	1		FSD-1001-50-0.375-1
						0.750	20			180	2800	1		FSD-1001-50-0.750-1
						1	15			180	2800	1		FSD-1001-50-1-1
						0.187	80		3 PH 415 VAC 50 Hz	120	1400	0.4		FSD-1001-50-0.187-3
						0.375	40			180	2800	0.45		FSD-1001-50-0.375.3
		0.750	20			180	2800			0.45	FSD-1001-50-0.750-3			
		1	15			180	2800			0.45	FSD-1001-50-1-3			

- We can supply actuator for 60 Hz supply also
- Degree of protection in IP68
- Alternate options for operation speed available on demand
- Accessories will be supplied as per client demand
- Alternate options for supply voltage 110 VAC / 380 VAC available on demand

2000 Series

Single Phase Linear Electrical Actuator

Sdtork Electric Actuator type 2000-series is designed for linear, quarter turn & angular actuation applications for remote control of various types of valves such as Globe, V-notch ball, Butterfly, Diaphragm and various types of dampers such as single / multi louver / VIV dampers. Sdtork's 2000-series is mainly used for control/regulating duty applications. The special design features of 2000 series give value addition to our customers in following ways :

VERSATILITY | ROBUSTNESS | RELIABILITY | ECONOMY



Also available in Flame Proof Version

Available Thrust Range upto 1200 kgs



Globe Valve with Electric Actuator



Diaphragm Valve with Electric Actuator



Square Damper with Electric Actuator



Butterfly Valve with Electric Actuator



Ball Valve with Electric Actuator



VIV Damper with Electric Actuator

Technical Data & Specifications of 2000-Series Actuators For Linear Application

MODEL	Stroke length	Operating Speed	Rated actuating Force	Max. Closing force	Switching frequency Operation / Hour		Motor Details						Weight of Actuator
	mm	mm/sec	kgs	kgs	Short Time	Normal	Supply	Output Watts	Nominal Current mA @220 V	Class of Insulation	Amb. Temp °C	Degree of protection	kgs
SD-2000-200-1	40	0.26	200	350	7000	1800	220 V / 110 V AC 50/60 Hz	3.14	40.5	B	45	IP65/IP67	4.5
SD-2000-200-2	40	0.52	200	300									
SD-2000-200-3	60	0.26	200	350									
SD-2000-200-4	60	0.52	200	300									
SD-2000-500-1	60	0.24	500	600				8.5					
SD-2000-600-1	60	0.45	600	900				16.5	133	E	45	IP65/IP67	10.5
SD-2000-600-2	60	0.8	600	750									
SD-2000-600-3	75	0.45	600	900									
SD-2000-600-4	75	0.8	600	750									
SD-2000-1000-1	80	1	1000	1200				180	113	F	45	IP65/IP67	20

Technical Data & Specifications of 2001-Series Actuators For Quarter Application

DESCRIPTION	SD-2001-04	SD-2001-06	SD-2001-15	SD-2001-20
Rated actuating torque Nm	40	68	150	200
Maximum closing torque Nm	70	120	180	300
Time of operation Sec/900	120	230	90	130
Switching frequency Operations/hour	- Shot time 7000 - Normal 1800			
Degree of protection	IP65/IP67			
Supply	220/110 VAC, 50/60 Hz, Single Phase			
Motor type	Non Blocking A.C, Synchronous motor			
Out put power watts	3.14	3.14	16.5	16.5
Nominal current at 220 V mA	40.5	40.5	133	133
Class of insulation	B	B	E	E
Ambient temp 0C	45	45	45	45
Weight- Kgs.	8.5	8.5	15	15

Technical Data & Specifications of 2002-Series Actuators For Damper Application

MODEL	SD-2002-1	SD-2002-2	SD-2002-3	SD-2002-4
Input Supply	220/110 VAC, 50/60 Hz, Single Phase			
Output force 'P' (Kgs)	40	40	85	65
Actuating	60	60	130	100
Closing				
Output Torque (Kgs)	8	8	25	20
Actuating	12	12	37.5	30
Closing				
Stroke (mm) Max (2E)	180	180	360	360
Time of operation for maximum stroke (minutes)	2.4	1.2	2.2	1.2
Supply	220/110 VAC, 50/60 Hz, Single Phase			
Motor Type	Non Blocking A.C. Synchronous Motor			
Output power watts	3.14	3.14	16.5	16.5
Nominal current at 220 V mA	40.5	40.5	133	133
Class of insulation	B	B	E	E
Ambient temp 0C	45	45	45	45
Weight - Kgs.	8.5	8.5	15	15



Technical Data - 2000 Series - Flame Proof Electrical Actuator -

Sr. No.	Model No.	Output Motion	Option	Rated Output	Maximum Closing	Stroke	Output Speed	Supply	Power	Current	Insulation	Approx. Weight					
				Thrust	Thrust							Watts	mA	Kg			
1	HQ-008 / FSD-2001-04 / FLP	Linear	L11	200 Kgs.	350 Kgs.	40 mm	0.26 mm / Sec.	1PH-220 / 110 VAC 50/60 HZ	3.14	40.5	B	10					
			L12	200 Kgs.	350 Kgs.	40 mm	0.52 mm / Sec.										
			L13	200 Kgs.	350 Kgs.	40 mm	0.26 mm / Sec.										
			L14	200 Kgs.	350 Kgs.	40 mm	0.52 mm / Sec.										
		Rotary		Torque	Torque												15
			R4	40	70	90°	120 Sec/90°										
		Rotary	R6	70	120	90°	230 Sec/90°										
																	12
		Angular	D1	40	60	180 mm / 40°	2.4 Min										
			D2	40	60	180 mm / 40°	1.2 Min										
2	HQ-015 / SD-2001-15 / FLP	Linear		Thrust	Thrust			1PH-220 / 110 VAC 50/60 HZ	16.5	133	E	18					
			L21	600 Kgs.	900 Kgs.	60 mm	0.45 mm / Sec.										
			L22	600 Kgs.	750 Kgs.	60 mm	0.8 mm / Sec.										
			L23	600 Kgs.	900 Kgs.	75 mm	0.45 mm / Sec.										
		Rotary		Torque	Torque												22
			R4	40	70	90°	90 Sec / 90°										
		Rotary	R6	70	120	90°	130 Sec / 90°										
																	20
		Angular	D1	40	60	360 mm / 60°	2.2 Min										
			D2	40	60	360 mm / 60°	1.2 Min										

- Accessories will be supplied as per client demand
- Options available for degree of protection in IP55, IP67 & IP68
- Alternate options for operation speed available on demand
- We can supply actuator for 60 Hz supply also
- Alternate option for 24 VDC available on demand

3000 Series

Three Phase Multiturn Electrical Actuator

Sdork Electric Actuator type 3000-Series is designed for multiturn application for remote control of various type valves such as Sluice Valve, Gate Valve, Knife Edge Gate Valve and Sluice Gate.



Available Torque Range upto 300 Nm

Three Phase Multiturn Electrical Actuator with Supplementary Spur Gear Box



Available Torque Range upto 3600 Nm



Motorised Sluice Valve



Motorised Globe / Piston Valve



Motorised Sluice Valve



Motorised Knife Edge Gate Valve



Motorised Sluice Gates

Technical Data for 3000 Series - Three Phase Multiturn Electrical Actuator

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Maximum Starting Torque	Output Speed	Feature SL/NSL	Max. spindle Dia Acceptable for Coupling Type A, B, C	Mounting	Motor Data : Type : Three Phase Squirrel cage Induction Motor						Appr. Wt.
									Supply Voltage 415 VAC, 50 Hz						
									Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
	Nm	Nm	Nm	RPM		MM	ISO	Kw/Hp	RPM	Amp.	Amp.	CosØ		Kg.	
1	SD-3001-03	30	06-30	45	10	SL	25	F10	0.37/0.5	1390	1	4.5	0.72	71	29
					15	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					20	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					30	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					40	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					60	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					70	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					80	SL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					120	SL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					140	SL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					190	NSL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					240	NSL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					270	NSL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					365	NSL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
2	SD-3001-06	60	15-60	80	10	SL	25	F10	0.37/0.5	1390	1	4.5	0.72	71	29
					15	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					20	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					30	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					40	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					60	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					70	SL	25		0.37/0.5	1390	1	4.5	0.72	71	
					80	SL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					120	SL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					140	SL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					190	NSL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					240	NSL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					270	NSL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
					365	NSL	25		0.37/0.5	2800	1.1	5.39	0.7	71	
3	SD-3001-08	80	20-80	120	10	SL	28	F10	0.75/1.0	1410	1.8	8.1	0.78	80	32
					15	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					20	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					30	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					40	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					60	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					70	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					80	SL	28		0.75/1.0	2800	1.7	10.2	0.8	80	34
					120	SL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
					140	SL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
					190	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
					240	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
					270	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
					365	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
4	SD-3000-10	100	25-100	150	10	SL	28	F10	0.75/1.0	1410	1.8	8.1	0.78	80	55
					15	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					20	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					30	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					40	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					60	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					70	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	

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Technical Data for 3000 Series - Three Phase Multiturn Electrical Actuator

Sr. No.	Model No.	Rated Torque Nm	Tripping Torque Adjustable Nm	Maximum Starting Torque Nm	Output Speed RPM	Feature SL/NSL	Max. spindle Dia Acceptable for Coupling Type A, B, C MM	Mounting ISO	Motor Data : Type : Three Phase Squirrel cage Induction Motor Supply Voltage 415 VAC, 50 Hz						Appr. Wt. Kg.
									Rated Output Kw/Hp	Rated Speed RPM	Rated Current Amp.	Starting Current Amp.	Power Factor CosØ	Frame Size	
4	SD-3000-10	100	25-100	150	80	SL	28	F10	2.20/3.0	2860	4.6	29.9	0.82	90 L	63
					120	SL	28		2.20/3.0	2860	4.6	29.9	0.82	90 L	
					140	SL	28		2.20/3.0	2860	4.6	29.9	0.82	90 L	
					190	NSL	28		2.20/3.0	2860	4.6	29.9	0.82	90 L	
					240	NSL	28		2.20/3.0	2860	4.6	29.9	0.82	90 L	
					270	NSL	28		2.20/3.0	2860	4.6	29.9	0.82	90 L	
					365	NSL	28		2.20/3.0	2860	4.6	29.9	0.82	90 L	
5	SD-3001-12	120	28-120	180	10	SL	28	F12	0.75/1.0	1410	1.8	8.1	0.78	80	42
					15	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					20	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					30	SL	28		0.75/1.0	1410	1.8	8.1	0.78	80	
					40	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	50
					60	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
					80	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
					90	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
					120	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
					120	NSL	28		0.75/1.0	2800	1.7	10.2	0.8	80	
6	SD-3000-20	200	60-200	300	10	SL	36	F14	0.75/1.0	1410	1.8	8.1	0.78	80	65
					15	SL	36		0.75/1.0	1410	1.8	8.1	0.78	80	
					20	SL	36		0.75/1.0	1410	1.8	8.1	0.78	80	
					30	SL	36		0.75/1.0	1410	1.8	8.1	0.78	80	
					40	NSL	36		1.50/2.0	1410	3.4	19.04	0.81	90L	
					60	NSL	36		1.50/2.0	1410	3.4	19.04	0.81	90L	73
					80	NSL	36		2.20/3.0	2860	4.6	29.9	0.82	90 L	
					90	NSL	36		2.20/3.0	2860	4.6	29.9	0.82	90 L	
					120	NSL	36		2.20/3.0	2860	4.6	29.9	0.82	90 L	
					120	NSL	36		2.20/3.0	2860	4.6	29.9	0.82	90 L	
7	SD-3000-30	300	90-300	450	10	SL	38	F16	1.50/2.0	1410	3.4	19.04	0.81	90L	80
					15	SL	38		1.50/2.0	1410	3.4	19.04	0.81	90L	
					20	SL	38		1.50/2.0	1410	3.4	19.04	0.81	90L	
					30	SL	38		1.50/2.0	1410	3.4	19.04	0.81	90L	
					40	NSL	38		1.50/2.0	1410	3.4	19.04	0.81	90L	93
					60	NSL	38		1.50/2.0	1410	3.4	19.04	0.81	90L	
					70	NSL	38		3.70/5.0	2880	7.2	43.2	0.84	100L	
					80	NSL	38		3.70/5.0	2880	7.2	43.2	0.84	100L	
					120	NSL	38		3.70/5.0	2880	7.2	43.2	0.84	100L	
					140	NSL	38		3.70/5.0	2880	7.2	43.2	0.84	100L	
8	SD-3002-50	500	250-500	750	16	SL	45	40/F16	1.1/1.5	710	3.3	13.2	0.69	100L	98
					25	SL	45		1.1/1.5	940	3.3	13.2	0.69	100L	
					40	SL	45		2.2/3	945	5.2	20.8	0.74	112M	
					63	SL	45		3/4	1410	6.4	25.6	0.80	100L	
					100	SL	45		3.7/5	1440	7.7	30.8	0.80	112M	
9	SD-3002-60	600	320-650	900	16	SL	45	40/F16	1.5/2	710	4.0	16	0.70	112M	98
					25	SL	45		1.5/2	930	3.70	14.8	0.74	100L	
					40	SL	45		2.2/3	1430	4.80	19.2	0.80	100L	
					63	SL	45		3.7/5	1440	7.7	30.8	0.80	112M	
					100	SL	45		5.5/7.5	1440	11	44.0	0.80	132S	
10	SD-3002-100	1000	630-1000	1500	45	SL	60	50/F16	5.5/7.5	950	12	48	0.74	132M	304
					70	SL	60		7.5/10	1450	14.5	58	0.82	132M	
					100	SL	60		7.5/10	1450	14.5	58	0.82	132M	

Technical Data : 3000 Series - Three Phase Multiturn Electrical Actuator With Supplementary Spur Gear Box

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Effective Output Speed	Feature SL/NSL	Max. spindle Dia Acceptable for Coupling Type A, B, C	Mounting	Motor Data : Type : Three Phase Squireerl cage Induction Motor						Appr. Wt.
									Supply Voltage 415 VAC, 50 Hz						
									Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
	Nm	Nm	RPM	RPM	MM	ISO	Kw/Hp	RPM	Amp.	Amp.	CosØ		Kg.		
1	SD-3001-08-SG2.75	180	54-180	10	3.5	SL	40	F16	0.75/1.0	1410	1.8	8.1	0.78	80	72
				15	5.5	SL	40		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	7.25	SL	40		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	11	SL	40		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	14.5	SL	40		0.75/1.0	1410	1.8	8.1	0.78	80	
				60	21	SL	40		0.75/1.0	1410	1.8	8.1	0.78	80	
				70	25	SL	40		0.75/1.0	1410	1.8	8.1	0.78	80	
				80	29	SL	40		1.10/1.5	2860	2.55	15	0.78	80	
				120	44	SL	40		1.10/1.5	2860	2.55	15	0.78	80	
				140	50	SL	40		1.10/1.5	2860	2.55	15	0.78	80	
				190	69	NSL	40		1.10/1.5	2860	2.55	15	0.78	80	
				240	87	NSL	40		1.10/1.5	2860	2.55	15	0.78	80	
				270	98	NSL	40		1.10/1.5	2860	2.55	15	0.78	80	
365	132	NSL	40	1.10/1.5	2860	2.55	15	0.78	80						
2	SD-3000-20-SG2.75	400	120-400	10	3.5	SL	40	F16	0.75/1.0	1410	1.8	8.1	0.78	80	105
				15	5.5	SL	40		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	7.25	SL	40		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	11	SL	40		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	14.5	NSL	40		1.50/2.0	1410	3.4	19.04	0.81	90L	113
				60	21	NSL	40		1.50/2.0	1410	3.4	19.04	0.81	90L	
				70	25	NSL	40		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				80	29	NSL	40		2.20/3.0	2860	4.6	29.9	0.82	90 L	
120	44	NSL	40	2.20/3.0	2860	4.6	29.9	0.82	90 L						
140	50	NSL	40	2.20/3.0	2860	4.6	29.9	0.82	90 L						
3	SD-3000-20-SG04	650	240-650	10	2.5	SL	45	F16	0.75/1.0	1410	1.8	8.1	0.78	80	105
				15	3.75	SL	45		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	5	SL	45		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	7.5	SL	45		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	10	NSL	45		1.50/2.0	1410	3.4	19.04	0.81	90L	113
				60	15	NSL	45		1.50/2.0	1410	3.4	19.04	0.81	90L	
				70	20	NSL	45		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				80	22.5	NSL	45		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	30	NSL	45		2.20/3.0	2860	4.6	29.9	0.82	90 L	
140	35	NSL	45	2.20/3.0	2860	4.6	29.9	0.82	90 L						
4	SD-3000-20-SG4.5	800	300-800	10	2.2	SL	50	F16	0.75/1.0	1410	1.8	8.1	0.78	80	111
				15	3.3	SL	50		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	4.4	SL	50		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	6.6	SL	50		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	9	NSL	50		1.50/2.0	1410	3.4	19.04	0.81	90L	119
				60	13	NSL	50		1.50/2.0	1410	3.4	19.04	0.81	90L	
				70	15.5	NSL	50		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				80	17.5	NSL	50		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	26.5	NSL	50		2.20/3.0	2860	4.6	29.9	0.82	90 L	
140	31	NSL	50	2.20/3.0	2860	4.6	29.9	0.82	90 L						
5	SD-3000-20-SG6.25	1000	360-1000	10	1.6	SL	65	F16	0.75/1.0	1410	1.8	8.1	0.78	80	113
				15	2.4	SL	65		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	3.2	SL	65		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	4.8	SL	65		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	6.4	NSL	65		1.50/2.0	1410	3.4	19.04	0.81	90L	121
				60	9.6	NSL	65		1.50/2.0	1410	3.4	19.04	0.81	90L	
				70	11.2	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				80	12.8	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	19.2	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	22.5	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90 L	

Technical Data : 3000 Series - Three Phase Multiturn Electrical Actuator With Supplementary Spur Gear Box

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Effective Output Speed	Feature SL/NSL	Max. spindle Dia Acceptable for Coupling Type A, B, C	Mounting	Motor Data : Type : Three Phase Squireerl cage Induction Motor						Appr. Wt.
									Supply Voltage 415 VAC, 50 Hz						
									Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
	Nm	Nm	RPM	RPM		MM	ISO	Kw/Hp	RPM	Amp.	Amp.	CosØ		Kg.	
6	SD-3000-20-SG10	1300	480-1300	10	1	SL	65	ISO	0.75/1.0	1410	1.8	8.1	0.78	80	147
				15	1.5	SL	65		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	2	SL	65		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	3	SL	65		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	4	NSL	65	F25	1.50/2.0	1410	3.4	19.04	0.81	90L	155
				60	6	NSL	65		1.50/2.0	1410	3.4	19.04	0.81	90L	
				70	7	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				80	8	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	12	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	14	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90 L	
7	SD-3000-20-SG12	1700	600-1700	10	0.8	SL	65	ISO	0.75/1.0	1410	1.8	8.1	0.78	80	145
				15	1.25	SL	65		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	1.66	SL	65		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	2.5	SL	65		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	3.33	NSL	65	F25	1.50/2.0	1410	3.4	19.04	0.81	90L	153
				60	5	NSL	65		1.50/2.0	1410	3.4	19.04	0.81	90L	
				70	6.66	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90L	
				80	7.5	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90L	
				120	10	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90L	
				140	11.66	NSL	65		2.20/3.0	2860	4.6	29.9	0.82	90L	
8	SD-3000-20-SG14	2000	720-2000	10	0.7	SL	90	ISO	0.75/1.0	1410	1.8	8.1	0.78	80	195
				15	1	SL	90		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	1.4	SL	90		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	2.14	SL	90		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	2.85	NSL	90	F25	1.50/2.0	1410	3.4	19.04	0.81	90L	203
				60	4.28	NSL	90		1.50/2.0	1410	3.4	19.04	0.81	90L	
				70	5	NSL	90		2.20/3.0	2860	4.6	29.9	0.82	90L	
				80	5.71	NSL	90		2.20/3.0	2860	4.6	29.9	0.82	90L	
				120	8.57	NSL	90		2.20/3.0	2860	4.6	29.9	0.82	90L	
				140	10	NSL	90		2.20/3.0	2860	4.6	29.9	0.82	90L	
9	SD-3000-20-SG18	2500	920-2500	10	0.55	SL	90	ISO	0.75/1.0	1410	1.8	8.1	0.78	80	200
				15	0.83	SL	90		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	1.11	SL	90		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	1.66	SL	90		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	2.22	NSL	90	F25	1.50/2.0	1410	3.4	19.04	0.81	90L	208
				60	3.33	NSL	90		1.50/2.0	1410	3.4	19.04	0.81	90L	
				70	3.88	NSL	90		2.20/3.0	2860	4.6	29.9	0.82	90L	
				80	4.44	NSL	90		2.20/3.0	2860	4.6	29.9	0.82	90L	
				120	6.66	NSL	90		2.20/3.0	2860	4.6	29.9	0.82	90L	
				140	7.77	NSL	90		2.20/3.0	2860	4.6	29.9	0.82	90L	
10	SD-3000-20-SG25	3600	1180-3600	10	0.4	SL	100	ISO	0.75/1.0	1410	1.8	8.1	0.78	80	200
				15	0.6	SL	100		0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.8	SL	100		0.75/1.0	1410	1.8	8.1	0.78	80	
				30	1.2	SL	100		0.75/1.0	1410	1.8	8.1	0.78	80	
				40	1.6	NSL	100	F25 / F30	1.50/2.0	1410	3.4	19.04	0.81	90L	208
				60	2.4	NSL	100		1.50/2.0	1410	3.4	19.04	0.81	90L	
				70	2.8	NSL	100		2.20/3.0	2860	4.6	29.9	0.82	90L	
				80	3.2	NSL	100		2.20/3.0	2860	4.6	29.9	0.82	90L	
				120	4.8	NSL	100		2.20/3.0	2860	4.6	29.9	0.82	90L	
				140	5.6	NSL	100		2.20/3.0	2860	4.6	29.9	0.82	90L	

4000 Series

Three Phase Quarter Turn Electrical Actuator

Sdtork Electric Actuator type 4000-Series is designed for Quarter Turn application for remote control of various type valves such as Ball Valve, Butterfly Valve, Plug Valve and Damper.



Available torque range upto 102000 Nm



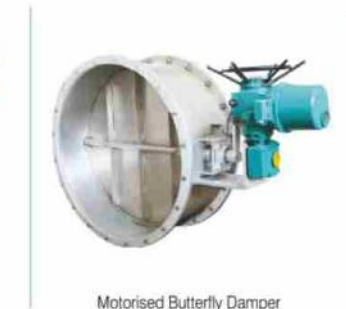
Motorised Butterfly Valve



Motorised Butterfly Valve



Motorised Butterfly Valve



Motorised Butterfly Damper



Motorised Ball Valve

Technical Data : 4000 Series - Three Phase Quarter Turn Electrical Actuator

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Effective Output Speed	Operation Time	Feature	Output Bore / Mounting PCD	Motor Data : Type : Three Phase Squirrel cage Induction Motor						Appr. Wt.
									Supply Voltage 415 VAC, 50 Hz						
									Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
		Nm	Nm	RPM	RPM	Sec/90°	SL/NSL	ISO	Kw/Hp	RPM	Amp.	Amp.	CosØ		Kg.
1	SD-4001-20	200	60-200	---	0.187	80	SL	30 / F10, F12	0.18/0.25	1340	1.12	3.36	0.65	63	30
				---	0.375	40	SL	30 / F10, F12	0.18/0.25	2730	1	3	0.68	63	
2	SD-4001-50	500	150-500	---	0.187	80	SL	50 / F10, F12	0.18/0.25	1340	1.12	3.36	0.65	63	40
				---	0.375	40	SL	50 / F10, F12	0.18/0.25	2730	1	3	0.68	63	
3	SD-4001-08-WG 40	600	180-600	10	0.25	60	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	42
				15	0.375	40	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.5	30	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.75	20	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	1	15	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	44
				60	1.5	10	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				70	1.75	8.6	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				80	2	7.5	SL	30 / F10	0.75/1.0	2800	1.7	10.2	0.8	80	
120	3	5	SL	30 / F10	0.75/1.0	2800	1.7	10.2	0.8	80					
4	SD-4001-08-WG 60	1200	360-1200	10	0.16	94	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	51
				15	0.25	60	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.33	45	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.5	30	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.66	23	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	53
				60	1	15	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				70	1.16	13	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				80	1.33	11	SL	45 / F14	0.75/1.0	2800	1.7	10.2	0.8	80	
120	2	7.5	SL	45 / F14	0.75/1.0	2800	1.7	10.2	0.8	80					
140	2.33	6	SL	45 / F14	0.75/1.0	2800	1.7	10.2	0.8	80					
5	SD-4001-12-WG 60	1800	540-1800	10	0.16	94	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	61
				15	0.25	60	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.33	45	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.5	30	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.66	23	NSL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	69
				60	1	15	NSL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				80	1.33	11	NSL	45 / F14	0.75/1.0	2800	1.7	10.2	0.8	80	
				90	1.5	10	NSL	45 / F14	0.75/1.0	2800	1.7	10.2	0.8	80	
120	2	8	NSL	45 / F14	0.75/1.0	2800	1.7	10.2	0.8	80					
6	SD-4001-12-WG 80	2400	720-2400	10	0.125	120	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	68
				15	0.187	80	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.25	60	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.375	40	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.5	30	NSL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	76
				60	0.75	20	NSL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				80	1	15	NSL	60 / F14, F16	0.75/1.0	2800	1.7	10.2	0.8	80	
				90	1.125	13	NSL	60 / F14, F16	0.75/1.0	2800	1.7	10.2	0.8	80	
120	1.5	10	NSL	60 / F14, F16	0.75/1.0	2800	1.7	10.2	0.8	80					
7	SD-4000-20-WG 80	3600	960-3600	10	0.125	120	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	93
				15	0.187	80	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.25	60	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.375	40	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.5	30	NSL	60 / F14, F16	1.50/2.0	1410	3.4	19.04	0.81	90L	101
				60	0.75	20	NSL	60 / F14, F16	1.50/2.0	1410	3.4	19.04	0.81	90L	
				80	1	15	NSL	60 / F14, F16	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				90	1.125	13	NSL	60 / F14, F16	2.20/3.0	2860	4.6	29.9	0.82	90 L	
120	1.5	10	NSL	60 / F14, F16	2.20/3.0	2860	4.6	29.9	0.82	90 L					
140	1.75	9	NSL	60 / F14, F16	2.20/3.0	2860	4.6	29.9	0.82	90 L					

4000 Series : Three Phase Quarter Turn Electrical Actuator

Technical Data : 4000 Series - Three Phase Quarter Turn Electrical Actuator

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Effective Output Speed	Operation Time	Feature	Output Bore / Mounting PCD	Motor Data : Type : Three Phase Squireerl cage Induction Motor						Appr. Wt.
									Supply Voltage 415 VAC, 50 Hz						
									Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
		Nm	Nm	RPM	RPM	Sec/90°	SL/NSL	ISO	Kw/Hp	RPM	Amp.	Amp.	CosØ		Kg.
8	SD-4000-10-WG 187	4700	1200-4700	10	0.053	283	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	95
				15	0.08	188	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.106	142	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.375	40	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.213	70	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				60	0.32	47	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				70	0.374	40	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	103
				80	0.427	35	SL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	0.641	23	SL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	0.748	20	SL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				190	1.016	15	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				240	1.283	12	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				270	1.443	10	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				9	SD-4000-20-WG 195	6000	1800-6000	10	0.05	300	SL	70/F14,F16,F25	0.75/1.0	1410	
15	0.076	197	SL					70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
20	0.102	147	SL					70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
30	0.153	98	SL					70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
40	0.205	73	NSL					70/F14,F16,F25	1.50/2.0	1410	3.4	19.04	0.81	90L	128
60	0.307	49	NSL					70/F14,F16,F25	1.50/2.0	1410	3.4	19.04	0.81	90L	
80	0.41	37	NSL					70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
90	0.461	33	NSL					70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
120	0.615	24	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L					
140	0.717	21	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L					
10	SD-4000-20-WG 260	8500	2250-8500	10	0.038	395	SL	80 / F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	145
				15	0.057	263	SL	80 / F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.076	197	SL	80 / F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.115	130	SL	80 / F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.153	98	NSL	80 / F16,F25	1.50/2.0	1410	3.4	19.04	0.81	90L	153
				60	0.23	65	NSL	80 / F16,F25	1.50/2.0	1410	3.4	19.04	0.81	90L	
				80	0.307	49	NSL	80 / F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				90	0.346	43	NSL	80 / F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	0.333	45	NSL	80 / F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	0.538	28	NSL	80 / F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
11	SD-4000-20-WG 225	12000	3600-12000	10	0.04	338	SL	100 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	165
				15	0.07	225	SL	100 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.09	169	SL	100 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.13	113	SL	100 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.18	84	NSL	100 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	173
				60	0.27	56	NSL	100 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	
				80	0.36	42	NSL	100 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				90	0.40	38	NSL	100 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	0.53	28	NSL	100 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	0.62	24	NSL	100 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
12	SD-4000-20-WG 300	15000	4500-15000	10	0.03	450	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	205
				15	0.05	300	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.07	225	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.10	150	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.13	113	NSL	110 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	213
				60	0.20	75	NSL	110 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	
				80	0.27	56	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				90	0.30	50	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	0.40	38	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	0.47	32	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	

Technical Data : 4000 Series - Three Phase Quarter Turn Electrical Actuator

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Effective Output Speed	Operation Time	Feature	Output Bore / Mounting PCD	Motor Data : Type : Three Phase Squirrel cage Induction Motor						Appr. Wt.
									Supply Voltage 415 VAC, 50 Hz						
									Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
		Nm	Nm	RPM	RPM	Sec/90°	SL/NSL	ISO	Kw/Hp	RPM	Amp.	Amp.	CosØ		Kg.
13	SD-4000-20-WG 375	20000	6000-20000	10	0.03	563	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	205
				15	0.04	375	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.05	281	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.08	188	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.11	141	NSL	110 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	213
				60	0.16	94	NSL	110 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	
				80	0.21	70	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				90	0.24	63	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	0.32	47	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	0.37	40	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
14	SD-4000-20-WG 557	30000	9000-30000	10	0.02	836	SL	145 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	275
				15	0.03	557	SL	145 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.04	418	SL	145 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.05	279	SL	145 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.07	209	NSL	145 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L	283
				60	0.11	139	NSL	145 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L	
				80	0.14	104	NSL	145 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				90	0.16	93	NSL	145 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	0.22	70	NSL	145 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	0.25	60	NSL	145 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L	
15	SD-4000-20-WG 960	42000	12600-42000	10	0.01	1440	SL	175 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	480
				15	0.02	960	SL	175 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.02	720	SL	175 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.03	480	SL	175 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.04	360	NSL	175 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L	488
				60	0.06	240	NSL	175 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L	
				80	0.08	180	NSL	175 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				90	0.09	160	NSL	175 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	0.13	120	NSL	175 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L	

4000 Series : Three Phase Quarter Turn Electrical Actuator

5000 Series

Three Phase Quarter Turn Electrical Actuator with Linkage & Mounting Bracket

Sdtork Electric Actuator type 5000-Series is designed for Basic Quarter Turn application which can be converted into Linear one with the help of linkage Application area of 5000-Series is mainly used to operates Dampers, Flaps, Gates etc.



Technical Data

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Effective Output Speed	Operation Time	Feature	Output Bore / Mounting PCD	Motor Data : Type : Three Phase Squireerl cage Induction Motor						Appr. Wt.
									Supply Voltage 415 VAC, 50 Hz						
									Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
		Nm	Nm	RPM	RPM	Sec/90°	SL/NSL	ISO	Kw/Hp	RPM	Amp.	Amp.	CosØ	Frame Size	Kg.
1	SD-5001-20	200	60-200	---	0.187	80	SL	30 / F10, F12	0.15/0.25	1340	1.12	3.36	0.65	63	35
				---	0.375	40	SL	30 / F10, F12	0.15/0.25	2730	1	3	0.68	63	
2	SD-5001-50	500	150-500	---	0.187	80	SL	50 / F10, F12	0.18/0.25	1340	1.2	3.6	0.65	63	45
				---	0.375	40	SL	50 / F10, F12	0.18/0.25	2730	1	3	0.68	63	
3	SD-5001-08-WG 40	600	180-600	10	0.25	60	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	48
				15	0.375	40	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.5	30	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.75	20	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	1	15	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				60	1.5	10	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				70	1.75	8.6	SL	30 / F10	0.75/1.0	1410	1.8	8.1	0.78	80	
				80	2	7.5	SL	30 / F10	0.75/1.0	2800	1.7	10.2	0.8	80	
4	SD-5001-08-WG 60	1200	360-1200	10	0.16	94	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	60
				15	0.25	60	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.33	45	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.5	30	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.66	23	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				60	1	15	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				70	1.16	13	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				80	1.33	11	SL	45 / F14	0.75/1.0	2800	1.7	10.2	0.8	80	
5	SD-5001-12-WG 60	1800	540-1800	10	0.16	94	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	71
				15	0.25	60	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.33	45	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.5	30	SL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.66	23	NSL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				60	1	15	NSL	45 / F14	0.75/1.0	1410	1.8	8.1	0.78	80	
				80	1.33	11	NSL	45 / F14	0.75/1.0	2800	1.7	10.2	0.8	80	
				90	1.5	10	NSL	45 / F14	0.75/1.0	2800	1.7	10.2	0.8	80	
6	SD-5001-12-WG 80	2400	720-2400	10	0.125	120	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	78
				15	0.187	80	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	0.25	60	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	0.375	40	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	0.5	30	NSL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				60	0.75	20	NSL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				80	1	15	NSL	60 / F14, F16	0.75/1.0	2800	1.7	10.2	0.8	80	
				90	1.125	13	NSL	60 / F14, F16	0.75/1.0	2800	1.7	10.2	0.8	80	
120	1.5	10	NSL	60 / F14, F16	0.75/1.0	2800	1.7	10.2	0.8	80					

Technical Data : 5000 Series - Three Phase Quarter Turn Electrical Actuator with Linkage & Mounting Bracket

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Effective Output Speed	Operation Time	Feature	Output Bore / Mounting PCD	Motor Data : Type : Three Phase Squireerl cage Induction Motor						Appr. Wt.				
									Supply Voltage 415 VAC, 50 Hz										
									Rated Output Kw/Hp	Rated Speed RPM	Rated Current Amp.	Starting Current Amp.	Power Factor CosØ	Frame Size					
		Nm	Nm	RPM	RPM	Sec/90°	SL/NSL	ISO	Kw/Hp	RPM	Amp.	Amp.	CosØ	Kg.					
7	SD-5000-20-WG 80	3600	960-3600	10	0.125	120	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80	105				
				15	0.187	80	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80					
				20	0.25	60	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80					
				30	0.375	40	SL	60 / F14, F16	0.75/1.0	1410	1.8	8.1	0.78	80					
								40	0.5	30	NSL	60 / F14, F16	1.50/2.0	1410	3.4	19.04	0.81	90L	113
								60	0.75	20	NSL	60 / F14, F16	1.50/2.0	1410	3.4	19.04	0.81	90L	
								80	1	15	NSL	60 / F14, F16	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								90	1.125	13	NSL	60 / F14, F16	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								120	1.5	10	NSL	60 / F14, F16	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	1.75	9	NSL	60 / F14, F16	2.20/3.0	2860	4.6	29.9	0.82	90 L					
8	SD-5000-10-WG 187	4700	1200-4700	10	0.053	283	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	109				
				15	0.08	188	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
				20	0.106	142	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
				30	0.375	40	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
				40	0.213	70	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
				60	0.32	47	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
				70	0.374	40	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
								80	0.427	35	SL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	117
								120	0.641	23	SL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								140	0.748	20	SL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								190	1.016	15	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								240	1.283	12	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								270	1.443	10	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
9	SD-5000-20-WG 195	6000	1800-6000	10	0.05	300	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	140				
				15	0.076	197	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
				20	0.102	147	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
				30	0.153	98	SL	70/F14,F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
								40	0.205	73	NSL	70/F14,F16,F25	1.50/2.0	1410	3.4	19.04	0.81	90L	148
								60	0.307	49	NSL	70/F14,F16,F25	1.50/2.0	1410	3.4	19.04	0.81	90L	
								80	0.41	37	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								90	0.461	33	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								120	0.615	24	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								140	0.717	21	NSL	70/F14,F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
10	SD-5000-20-WG 260	8500	2250-8500	10	0.038	395	SL	80 / F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80	165				
				15	0.057	263	SL	80 / F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
				20	0.076	197	SL	80 / F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
				30	0.115	130	SL	80 / F16,F25	0.75/1.0	1410	1.8	8.1	0.78	80					
								40	0.153	98	NSL	80 / F16,F25	1.50/2.0	1410	3.4	19.04	0.81	90L	173
								60	0.23	65	NSL	80 / F16,F25	1.50/2.0	1410	3.4	19.04	0.81	90L	
								80	0.307	49	NSL	80 / F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								90	0.346	43	NSL	80 / F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								120	0.333	45	NSL	80 / F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								140	0.538	28	NSL	80 / F16,F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
11	SD-5000-20-WG 225	12000	3600-12000	10	0.04	338	SL	100 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	190				
				15	0.07	225	SL	100 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80					
				20	0.09	169	SL	100 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80					
				30	0.13	113	SL	100 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80					
								40	0.18	84	NSL	100 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	198
								60	0.27	56	NSL	100 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	
								80	0.36	42	NSL	100 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								90	0.40	38	NSL	100 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								120	0.53	28	NSL	100 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								140	0.62	24	NSL	100 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
12	SD-5000-20-WG 300	15000	4500-15000	10	0.03	450	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	235				
				15	0.05	300	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80					
				20	0.07	225	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80					
				30	0.10	150	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80					
								40	0.13	113	NSL	110 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	248
								60	0.20	75	NSL	110 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	
								80	0.27	56	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								90	0.30	50	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								120	0.40	38	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								140	0.47	32	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L	

5000 Series : Three Phase Quarter Turn Electrical Actuator with Linkage & Mounting Bracket

Technical Data : 5000 Series - Three Phase Quarter Turn Electrical Actuator with Linkage & Mounting Bracket

Sr. No.	Model No.	Rated Torque Nm	Tripping Torque Adjustable Nm	Output Speed RPM	Effective Output Speed RPM	Operation Time Sec/90°	Feature SL/NSL	Output Bore / Mounting PCD ISO	Motor Data : Type : Three Phase Squireerl cage Induction Motor Supply Voltage 415 VAC, 50 Hz						Appr. Wt. Kg.								
									Rated Output Kw/Hp	Rated Speed RPM	Rated Current Amp.	Starting Current Amp.	Power Factor CosØ	Frame Size									
13	SD-5000-20-WG 375	20000	6000-20000	10	0.03	563	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80	245								
				15	0.04	375	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80									
				20	0.05	281	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80									
				30	0.08	188	SL	110 / F25,F30	0.75/1.0	1410	1.8	8.1	0.78	80									
								40	0.11	141	NSL	110 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L	253				
								60	0.16	94	NSL	110 / F25,F30	1.50/2.0	1410	3.4	19.04	0.81	90L					
								80	0.21	70	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								90	0.24	63	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								120	0.32	47	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								140	0.37	40	NSL	110 / F25,F30	2.20/3.0	2860	4.6	29.9	0.82	90 L					
				14	SD-5000-20-WG 557	30000	9000-30000	10	0.02	836	SL	145 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	325				
								15	0.03	557	SL	145 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80					
								20	0.04	418	SL	145 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80					
								30	0.05	279	SL	145 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80					
								40	0.07	209	NSL	145 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L	335				
								60	0.11	139	NSL	145 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L					
								80	0.14	104	NSL	145 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								90	0.16	93	NSL	145 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								120	0.22	70	NSL	145 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								140	0.25	60	NSL	145 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L					
15	SD-5000-20-WG 960	42000	12600-42000					10	0.01	1440	SL	175 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80	530				
								15	0.02	960	SL	175 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80					
								20	0.02	720	SL	175 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80					
								30	0.03	480	SL	175 / F30, F35	0.75/1.0	1410	1.8	8.1	0.78	80					
								40	0.04	360	NSL	175 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L	550				
								60	0.06	240	NSL	175 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L					
								80	0.08	180	NSL	175 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								90	0.09	160	NSL	175 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								120	0.13	120	NSL	175 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L					
				16	SD-5000-30-WG 960	61500	18450-61500	10	0.010	1440	SL	175 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L		570			
								15	0.02	960	SL	175 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L					
								20	0.02	720	SL	175 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L					
								30	0.03	480	SL	175 / F30, F35	1.50/2.0	1410	3.4	19.04	0.81	90L					
												40	0.04	360	NSL	175 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L	580
								60	0.06	240	NSL	175 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								80	0.08	180	NSL	175 / F30, F35	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								90	0.09	160	NSL	175 / F30, F35	3.70/5.0	2880	7.2	43.2	0.84	100L					
								120	0.13	120	NSL	175 / F30, F35	3.70/5.0	2880	7.2	43.2	0.84	100L					
17	SD-5000-30-WG 1120	72250	21675-72250					10	0.009	1680	SL	200 / F40	1.50/2.0	1410	3.4	19.04	0.81	90L	640				
								15	0.013	1120	SL	200 / F40	1.50/2.0	1410	3.4	19.04	0.81	90L					
								20	0.018	840	SL	200 / F40	1.50/2.0	1410	3.4	19.04	0.81	90L					
								30	0.027	560	SL	200 / F40	1.50/2.0	1410	3.4	19.04	0.81	90L					
												40	0.036	420	NSL	200 / F40	2.20/3.0	2860	4.6	29.9	0.82	90 L	650
								60	0.054	280	NSL	200 / F40	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								80	0.071	210	NSL	200 / F40	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								90	0.080	187	NSL	200 / F40	3.70/5.0	2880	7.2	43.2	0.84	100L					
								120	0.107	140	NSL	200 / F40	3.70/5.0	2880	7.2	43.2	0.84	100L					
				18	SD-5000-30-WG 1844	102000	30600-102000	15	0.008	1844	SL	200 / F40	1.50/2.0	1410	3.4	19.04	0.81	90L	650				
								20	0.011	1383	SL	200 / F40	1.50/2.0	1410	3.4	19.04	0.81	90L					
								30	0.016	922	SL	200 / F40	1.50/2.0	1410	3.4	19.04	0.81	90L					
												40	0.022	692	NSL	200 / F40	2.20/3.0	2860	4.6	29.9	0.82	90 L	800
												60	0.033	461	NSL	200 / F40	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								80	0.043	346	NSL	200 / F40	2.20/3.0	2860	4.6	29.9	0.82	90 L					
								90	0.049	307	NSL	200 / F40	3.70/5.0	2880	7.2	43.2	0.84	100L					
								120	0.065	231	NSL	200 / F40	3.70/5.0	2880	7.2	43.2	0.84	100L					

6000 Series

Three Phase Linear Electric Actuator

Sdtork Electric Actuator type 6000-Series is designed for Linear application for remote control of Globe Valve and Dosing Pump.



Available Thrust Range upto 5000 kgs



Motorised Globe Valve

Technical Data : 6000 Series - Three Phase Linear Electrical Actuator

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Feature SL/NSL	Max. Stroke	Motor Data : Type : Three Phase Squireerl cage Induction Motor						Appr. Wt.				
							Supply Voltage 415 VAC, 50 Hz										
							Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size					
		Kgs	Kgs	MM/Sec		MM	Kw/Hp	RPM	Amp.	Amp.	CosØ		Kg.				
1	SD-6001-03-650	650	200-650	0.50	SL	40	0.37/0.5	1390	1	4.5	0.72	71	38				
				0.75	SL	40	0.37/0.5	1390	1	4.5	0.72	71					
				1	SL	40	0.37/0.5	1390	1	4.5	0.72	71					
				1.5	SL	40	0.37/0.5	1390	1	4.5	0.72	71					
				2	SL	40	0.37/0.5	1390	1	4.5	0.72	71					
				3	SL	40	0.37/0.5	1390	1	4.5	0.72	71					
				3.5	SL	40	0.37/0.5	1390	1	4.5	0.72	71					
				4	SL	40	0.37/0.5	2800	1.1	5.39	0.7	71					
				6	SL	40	0.37/0.5	2800	1.1	5.39	0.7	71					
				7	SL	40	0.37/0.5	2800	1.1	5.39	0.7	71					
2	SD-6001-03-650	1200	360-1200	0.83	SL	60	0.37/0.5	1390	1	4.5	0.72	71	40				
				1.25	SL	60	0.37/0.5	1390	1	4.5	0.72	71					
				1.66	SL	60	0.37/0.5	1390	1	4.5	0.72	71					
				2.5	SL	60	0.37/0.5	1390	1	4.5	0.72	71					
				3.33	SL	60	0.37/0.5	1390	1	4.5	0.72	71					
				5	SL	60	0.37/0.5	1390	1	4.5	0.72	71					
				5.83	SL	60	0.37/0.5	1390	1	4.5	0.72	71					
				6.66	SL	60	0.37/0.5	2800	1.1	5.39	0.7	71					
				10	SL	60	0.37/0.5	2800	1.1	5.39	0.7	71					
								11.66	SL	60	0.37/0.5	2800		1.1	5.39	0.7	71
3	SD-6001-08-2000	2000	600-2000	0.83	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80	42				
				1.25	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
				1.66	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
				2.5	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
				3.33	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
				5	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
								5.83	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80	44
								6.66	SL	75	0.75/1.0	2800	1.7	10.2	0.8	80	
								10	SL	75	0.75/1.0	2800	1.7	10.2	0.8	80	
								11.66	SL	75	0.75/1.0	2800	1.7	10.2	0.8	80	
4	SD-6000-10-2600	2600	780-2600	0.83	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80	60				
				1.25	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
				1.66	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
				2.5	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
				3.33	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
				5	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80					
								5.83	SL	75	0.75/1.0	1410	1.8	8.1	0.78	80	70
								6.66	SL	75	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								10	SL	75	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								11.66	SL	75	2.20/3.0	2860	4.6	29.9	0.82	90 L	
5	SD-6001-12-3000	3000	900-3000	0.83	SL	90	0.75/1.0	1410	1.8	8.1	0.78	80	60				
				1.25	SL	90	0.75/1.0	1410	1.8	8.1	0.78	80					
				1.66	SL	90	0.75/1.0	1410	1.8	8.1	0.78	80					
				2.5	SL	90	0.75/1.0	1410	1.8	8.1	0.78	80					
								3.33	NSL	90	0.75/1.0	2800	1.7	10.2	0.8	80	72
								5	NSL	90	0.75/1.0	2800	1.7	10.2	0.8	80	
								5.83	NSL	90	0.75/1.0	2800	1.7	10.2	0.8	80	
								6.66	NSL	90	0.75/1.0	2800	1.7	10.2	0.8	80	
								10	NSL	90	0.75/1.0	2800	1.7	10.2	0.8	80	
6	SD-6000-20-5000	5000	1500-5000	0.83	SL	110	0.75/1.0	1410	1.8	8.1	0.78	80	65				
				1.25	SL	110	0.75/1.0	1410	1.8	8.1	0.78	80					
				1.66	SL	110	0.75/1.0	1410	1.8	8.1	0.78	80					
				2.5	SL	110	0.75/1.0	1410	1.8	8.1	0.78	80					
								3.33	NSL	110	1.50/2.0	1410	3.4	19.04	0.81	90L	73
								5	NSL	110	1.50/2.0	1410	3.4	19.04	0.81	90L	
								5.83	NSL	110	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								6.66	NSL	110	2.20/3.0	2860	4.6	29.9	0.82	90 L	
								10	NSL	110	2.20/3.0	2860	4.6	29.9	0.82	90 L	

7000 Series

Three Phase Thruster Electric Cylinder Actuator

Sdtork Electric Cylinder Actuator 7000-Series are suitable for operation of Fan Dampers, Valves with Rising Stem, Flap Gates, Shutter Valves, Fuel Feed Mechanisms, Blower Pitch Regulators, Fart Blades, Pitch Adjusters, Fluid Couplings for Speed Control and many more similare applications.



Available Thrust Range upto 3500 kgs

Technical Data

Sr. No.	Model No.	Output Thrust Kgs.	Stroke mm	Output Drives Speed mm/Sec	Feature	Weight Kg/Lbs.	Motor Data : Type : Three Phase Squireerl cage Induction Motor						G.A. Drawing Reference No.
							Supply Voltage 415 VAC, 50 Hz						
							Rated Output Kw/Hp	Rated Speed RPM	Rated Current Amp.	Starting Current Amp.	Power Factor Cosθ	Frame Size	
1	SD-7001-03-200-300	200	300	2	SL	70 kgs.	0.37/0.5	1340	1	4.5	0.72	71	SDGA-7000-01
				3	SL		0.37/0.5	1340	1	4.5	0.72	71	
				4	SL		0.37/0.5	1340	1	4.5	0.72	71	
				6	SL		0.37/0.5	1340	1	4.5	0.72	71	
				8	SL		0.37/0.5	1340	1	4.5	0.72	71	
				12	SL		0.37/0.5	1340	1	4.5	0.72	71	
				14	SL		0.37/0.5	1340	1	4.5	0.72	71	
				16	SL		0.37/0.5	2800	1.1	5.39	0.7	71	
				24	SL		0.37/0.5	2800	1.1	5.39	0.7	71	
				28	SL		0.37/0.5	2800	1.1	5.39	0.7	71	
				38	NSL		0.37/0.5	2800	1.1	5.39	0.7	71	
				48	NSL		0.37/0.5	2800	1.1	5.39	0.7	71	
				54	NSL		0.37/0.5	2800	1.1	5.39	0.7	71	
				73	NSL		0.37/0.5	2800	1.1	5.39	0.7	71	
2	SD-7001-03-500-300	500	300	2	SL	85 kgs.	0.37/0.5	1340	1	4.5	0.72	71	SDGA-7000-02
				3	SL		0.37/0.5	1340	1	4.5	0.72	71	
				4	SL		0.37/0.5	1340	1	4.5	0.72	71	
				6	SL		0.37/0.5	1340	1	4.5	0.72	71	
				8	SL		0.37/0.5	1340	1	4.5	0.72	71	
				12	SL		0.37/0.5	1340	1	4.5	0.72	71	
				14	SL		0.37/0.5	1340	1	4.5	0.72	71	
				16	SL		0.37/0.5	2800	1.1	5.39	0.7	71	
				24	SL		0.37/0.5	2800	1.1	5.39	0.7	71	
				28	SL		0.37/0.5	2800	1.1	5.39	0.7	71	
				38	NSL		0.37/0.5	2800	1.1	5.39	0.7	71	
				48	NSL		0.37/0.5	2800	1.1	5.39	0.7	71	
				54	NSL		0.37/0.5	2800	1.1	5.39	0.7	71	
				73	NSL		0.37/0.5	2800	1.1	5.39	0.7	71	

Technical Data : 7000 Series - Three Phase Thruster Electric Cylinder Actuator

Sr. No.	Model No.	Output Thrust	Stroke	Output Drives Speed	Feature	Weight	Motor Data : Type : Three Phase Squireerl cage Induction Motor						G.A. Drawing Reference No.
							Supply Voltage 415 VAC, 50 Hz						
							Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
	Kg/Sec	mm	mm/Sec		Kg/Lbs.	Kw/Hp	RPM	Amp.	Amp.	CosØ			
3.	SD-7001-06-750-600	750	600	3	SL	90 kgs.	0.75/1	1410	1.8	8.1	0.78	80	SDGA-7000-02
				5	SL		0.75/1	1410	1.8	8.1	0.78	80	
				7	SL		0.75/1	1410	1.8	8.1	0.78	80	
				10	SL		0.75/1	1410	1.8	8.1	0.78	80	
				13	SL		0.75/1	1410	1.8	8.1	0.78	80	
				20	SL		0.75/1	1410	1.8	8.1	0.78	80	
				23	SL	0.75/1	1410	1.8	8.1	0.78	80		
				27	SL	92 Kgs.	1.1/1.5	2860	2.55	15.05	0.78	80	
				40	SL		1.1/1.5	2860	2.55	15.05	0.78	80	
47	SL	1.1/1.5	2860	2.55	15.05		0.78	80					
4	SD-7000-10-1000-1000	1000	1000	3	SL	170 kgs.	0.75/1	410	1.8	8.1	0.78	80	SDGA-7000-02
				5	SL		0.75/1	1410	1.8	8.1	0.78	80	
				7	SL		0.75/1	1410	1.8	8.1	0.78	80	
				10	SL		0.75/1	1410	1.8	8.1	0.78	80	
				13	SL		0.75/1	1410	1.8	8.1	0.78	80	
				20	SL		0.75/1	1410	1.8	8.1	0.78	80	
				23	SL	0.75/1	1410	1.8	8.1	0.78	80		
				27	SL	177 kgs.	2.2/3	2860	4.6	29.9	0.82	90L	
				40	SL		2.2/3	2860	4.6	29.9	0.82	90L	
				47	SL		2.2/3	2860	4.6	29.9	0.82	90L	
				63	NSL		2.2/3	2860	4.6	29.9	0.82	90L	
				80	NSL		2.2/3	2860	4.6	29.9	0.82	90L	
90	NSL	2.2/3	2860	4.6	29.9		0.82	90L					
5	SD-7000-20-2000-1200	2000	1200	3	SL	210 kgs.	0.75/1	1410	1.8	8.1	0.78	80	SDGA-7000-03
				5	SL		0.75/1	1410	1.8	8.1	0.78	80	
				7	SL		0.75/1	1410	1.8	8.1	0.78	80	
				10	SL		0.75/1	1410	1.8	8.1	0.78	80	
				13	NSL		1.5/2	1410	3.4	19.04	0.78	90L	
				20	NSL		1.5/2	1410	3.4	19.04	0.78	90L	
				27	NSL	217 kgs.	2.2/3	2860	4.6	29.9	0.82	90L	
				30	NSL		2.2/3	2860	4.6	29.9	0.82	90L	
				40	NSL		2.2/3	2860	4.6	29.9	0.82	90L	
72	NSL	2.2/3	2860	4.6	29.9	0.82	90L						
6	SD-7000-30-3000-1200	3500	1000	3	SL	280 kgs.	1.5/2	1410	3.4	19.04	0.78	90L	SDGA-7000-04
				5	SL		1.5/2	1410	3.4	19.04	0.78	90L	
				7	SL		1.5/2	1410	3.4	19.04	0.78	90L	
				10	SL		1.5/2	1410	3.4	19.04	0.78	90L	
				13	NSL		2.2/3	1430	4.8	28.32	0.8	100L	
				20	NSL		2.2/3	1430	4.8	28.32	0.8	100L	
				27	NSL		3.7/5	2880	7.3	43.2	0.84	100L	
				30	NSL		3.7/5	2880	7.3	43.2	0.84	100L	
				40	NSL		3.7/5	2880	7.3	43.2	0.84	100L	

NOTE: We can also supply electric cylinder base on customer demand. Pl consult SDTORK

8000 Series

Basic Multiturn Electrical Actuator with Bevel Gear Box

Sdork Actuator type 8000-Series is designed for multiturn application for remote control of various types of Knief Edge Gates, Sluice Gates, etc.



Available Torque Range upto 1200 Nm

Technical Data

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Effective Output Speed	Feature SL/NSL	Output Bore Mounting PCD	Motor Data : Type : Three Phase Squireerl cage Induction Motor						Appr. Wt.
								Supply Voltage 415 VAC, 50 Hz						
								Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
	Nm	Nm	RPM	RPM		MM	Kw/Hp	RPM	Amp.	Amp.	CosØ		Kg.	
1	SD-8001-06-BG 03	140	40-140	10	3.33	SL	35 / F10,F12	0.75/1.0	1410	1.8	8.1	0.78	80	58
				15	5.00	SL	35 / F10,F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	6.67	SL	35 / F10,F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	10.00	SL	35 / F10,F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	13.33	SL	35 / F10,F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				60	20.00	SL	35 / F10,F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				70	23.33	SL	35 / F10,F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				80	26.67	SL	35 / F10,F12	1.10/1.5	2860	2.55	15	0.78	80	
				120	40.00	SL	35 / F10,F12	1.10/1.5	2860	2.55	15	0.78	80	
				140	46.67	SL	35 / F10,F12	1.10/1.5	2860	2.55	15	0.78	80	

Technical Data : 8000 Series - Three Phase Multi Turn Electrical Actuator with Bevel Gear Box

Sr. No.	Model No.	Rated Torque	Tripping Torque Adjustable	Output Speed	Effective Output Speed	Feature SL/NSL	Output Bore Mounting PCD	Motor Data : Type : Three Phase Squireerl cage Induction Motor						Appr. Wt.
								Supply Voltage 415 VAC, 50 Hz						
								Rated Output	Rated Speed	Rated Current	Starting Current	Power Factor	Frame Size	
		Nm	Nm	RPM	RPM		MM	Kw/Hp	RPM	Amp.	Amp.	CosØ		Kg.
2	SD-8001-12-BG 03	300	90-300	10	3.33	SL	40/F12	0.75/1.0	1410	1.8	8.1	0.78	80	77
				15	5.00	SL	40/F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	6.67	SL	40/F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	10.00	SL	40/F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	13.33	NSL	40/F12	0.75/1.0	2800	1.7	10.2	0.8	80	85
				60	20.00	NSL	40/F12	0.75/1.0	2800	1.7	10.2	0.8	80	
				80	26.67	NSL	40/F12	0.75/1.0	2800	1.7	10.2	0.8	80	
				90	30.00	NSL	40/F12	0.75/1.0	2800	1.7	10.2	0.8	80	
				120	40.00	NSL	40/F12	0.75/1.0	2800	1.7	10.2	0.8	80	
				140	46.67	NSL	40/F12	0.75/1.0	2800	1.7	10.2	0.8	80	
3	SD-8000-20-BG 03	500	150-500	10	3.33	SL	40/F12	0.75/1.0	1410	1.8	8.1	0.78	80	100
				15	5.00	SL	40/F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	6.67	SL	40/F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	10.00	SL	40/F12	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	13.33	NSL	40/F12	1.50/2.0	1410	1.8	8.1	0.78	80	108
				60	20.00	NSL	40/F12	1.50/2.0	1410	1.8	8.1	0.78	80	
				70	23.33	NSL	40/F12	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				80	26.67	NSL	40/F12	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	40.00	NSL	40/F12	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	46.67	NSL	40/F12	2.20/3.0	2860	4.6	29.9	0.82	90 L	
4	SD-8000-20-BG 4.5	700	210-700	10	2.22	SL	50/F16	0.75/1.0	1410	1.8	8.1	0.78	80	136
				15	3.33	SL	50/F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	4.44	SL	50/F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	6.67	SL	50/F16	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	8.89	NSL	50/F16	1.50/2.0	1410	1.8	8.1	0.78	80	144
				60	13.33	NSL	50/F16	1.50/2.0	1410	1.8	8.1	0.78	80	
				70	15.56	NSL	50/F16	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				80	17.78	NSL	50/F16	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	26.67	NSL	50/F16	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	31.11	NSL	50/F16	2.20/3.0	2860	4.6	29.9	0.82	90 L	
5	SD-8000-20-SG 06	950	285-950	10	1.67	SL	60/F25	0.75/1.0	1410	1.8	8.1	0.78	80	174
				15	2.50	SL	60/F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				20	3.33	SL	60/F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				30	5.00	SL	60/F25	0.75/1.0	1410	1.8	8.1	0.78	80	
				40	6.67	NSL	60/F25	1.50/2.0	1410	1.8	8.1	0.78	80	182
				60	10.00	NSL	60/F25	1.50/2.0	1410	1.8	8.1	0.78	80	
				70	11.67	NSL	60/F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				80	13.33	NSL	60/F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				120	20.00	NSL	60/F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
				140	23.33	NSL	60/F25	2.20/3.0	2860	4.6	29.9	0.82	90 L	
6	SD-8000-30-BG 06	1200	360-1200	10	1.67	SL	75/ F30	1.50/2.0	1410	1.8	8.1	0.78	80	225
				15	2.50	SL	75/ F30	1.50/2.0	1410	1.8	8.1	0.78	80	
				20	3.33	SL	75/ F30	1.50/2.0	1410	1.8	8.1	0.78	80	
				30	5.00	SL	75/ F30	1.50/2.0	1410	1.8	8.1	0.78	80	
				40	6.67	NSL	75/ F30	1.50/2.0	1410	1.8	8.1	0.78	80	243
				60	10.00	NSL	75/ F30	1.50/2.0	1410	1.8	8.1	0.78	80	
				70	11.67	NSL	75/ F30	3.70/5.0	2880	7.2	43.2	0.84	100L	
				80	13.33	NSL	75/ F30	3.70/5.0	2880	7.2	43.2	0.84	100L	
				120	20.00	NSL	75/ F30	3.70/5.0	2880	7.2	43.2	0.84	100L	
				140	23.33	NSL	75/ F30	3.70/5.0	2880	7.2	43.2	0.84	100L	

SD-10000 Series

Electro - Hydraulic Actuator

Rotary Quarter Turn Electro-Hydraulic Actuator

SD-10000-10

Linear Type Electro-Hydraulic Actuator

SD-10000-11



Features :

- Intelligent Electronic Control Unit
- Composite Hydraulic Control System
- Rotary Quarter Turn Torque range 300 Nm ~ 32000 Nm
- Linear type, Thrust range : 9.6 KN ~ 530 KN
- On-Off, Modulating, Smart Type
- Double acting or Single acting
- Hand Pump for emergency operation
- Low energy consumption (0.4 Kw, 1.0Kw)
- Self-diagnosis System
- Internal Hydraulic Pump
- Maximum working pressure 210 Bar.
- Status indicator.
- 220 VAC, 50/60 Hz power control. Also available with alternate option.
- IP68 protection also available in explosion-proof protection.
- Temperature range 250C ~600C
- Local or remote control option available
- Option for emergency shut down function available on demand.

Ordering Specification

MODEL NO - - - - - - -

Electro - Hydraulic Actuator Series _____

10 - Quarter Turn }
11 - Linear Type } _____

10 - Torque NM }
11 - Thrust KN } _____

Mode : On-Off, Modulating Smart _____

Acting type : Double Acting Single Acting _____

Protection : Weather Proof Explosion Proof _____

Optional Accessories : ESD Emergency Shut Down Function _____

* Please consult Sdork for stroke time requirement
* Torque & Thrust of Single acting type is half of double acting type

Rotary Quarter Turn Electro-Hydraulic Actuator



Model	Torque NM
SD-10000-10-01	600
SD-10000-10-02	1100
SD-10000-10-03	2200
SD-10000-10-04	5000
SD-10000-10-05	9000
SD-10000-10-06	16000
SD-10000-10-07	32000

Linear Type Electro-Hydraulic Actuator



Model	Thrust KN
SD-10000-11-01	24
SD-10000-11-02	30
SD-10000-11-03	48
SD-10000-11-04	78
SD-10000-11-05	123
SD-10000-11-06	192
SD-10000-11-07	240

FSD - 12000 Series

Three Phase Flame Proof Electrical Actuator

Technical Data

Series	Basic Model	Output Motion	Rated Torque	Tripping Torque Range	Output Speed	Supply	Item Code
			NM	NM	RPM		
Three Phase Flame Proof Electrical Actuator 12000 Series	FSD12000	Multiturn	30	06-30	10-365	Three Phase 380 / 415 / 460 / 580 VAC, 50 HZ	FSD-12000-03
			60	15-60	10-365		FSD-12000-06
			80	20-80	10-365		FSD-12000-08
			100	25-100	10-120		FSD-12000-10
			120	25-120	10-120		FSD-12000-12
			200	60-200	10-120		FSD-12000-20
			300	90-300	10-140		FSD-12000-30
			500	250-500	16-100		FSD-12000-50
			1000	320-500	16-100		FSD-12000-100
			Multiturn	180	54-180		3.5-132
		400		120-400	3.5-132	FSD-12000-20-SG2.75	
		650		240-650	2.5-31	FSD-12000-20-SG04	
		800		300-800	2.2-31	FSD-12000-20-SG4.5	
		1000		360-1000	1.6-22.5	FSD-12000-20-SG6.25	
		1300		480-1300	1-1.1	FSD-12000-20-SG10	
		1700		600-1700	0.8-11.66	FSD-12000-20SG-12	
		2000		720-2000	0.7-10	FSD-12000-20-SG-14	
		2500		920-2500	0.55-7.77	FSD-12000-20-SG-18	
		3600		1180-3600	0.4-5.6	FSD-12000-20-SG-25	
		Multiturn	140	40-140	3.33-46.67	FSD-12000-06-BG03	
			300	90-300	3.33-66.67	FSD-12000-12-BG03	
			500	150-500	3.33-46.67	FSD-12000-20-BG-03	
			700	210-700	2.22-31.11	FSD-12000-20-BG-4.5	
			950	285-950	1.67-23.33	FSD-12000-20-BG-06	
			1200	360-1200	1.67-23.33	FSD-12000-20-BG-30	
		Quarter-turn	600	180-600	0.25-3	FSD-12000-08-WG-40	
			1200	360-1200	0.16-2.33	FSD-12000-08-WG-40	
			1800	540-1800	0.16-2	FSD-12000-12-WG-60	
			2400	720-2400	0.125-1.75	FSD-12000-12-WG-80	
			3600	960-3600	0.125-1.75	FSD-12000-20-WG-80	
			4700	1200-4700	0.053-1.433	FSD-12000-20-WG-187	
			6000	1800-6000	0.05-0.717	FSD-12000-20-WG-195	
			8500	2250-8500	0.038-0.538	FSD-12000-20-WG-260	
			12000	3600-12000	0.04-0.62	FSD-12000-20-WG-225	
			15000	4500-15000	0.03-0.47	FSD-12000-20-WG-300	
			20000	6000-20000	0.03-0.37	FSD-12000-20-WG-375	
			30000	9000-30000	0.02-0.25	FSD-12000-20-WG-557	
			42000	12600-42000	0.01-0.13	FSD-12000-20-WG-960	
			61500	18450-61500	0.01-0.13	FSD-12000-20-WG-960	
		72250	21675-72250	0.009-0.107	FSD-12000-20-WG-1120		
		102000	30600-102000	0.009-0.107	FSD-12000-20-WG-1844		
		Linear	Thrust Kg	Tripping Range / Stroke (Kg) / MM	Speed mm/Sec.		
			650	200-650 / 40	0.50-7	FSD-12000-03-650	
			1200	360-1200 / 60	0.83-11.66	FSD-12000-03-1200	
			2000	600-2000 / 75	0.83-11.66	FSD-12000-08-2000	
			2600	780-2600 / 75	0.83-11.66	FSD-12000-10-2600	
			3000	900-3000 / 90	0.83-10	FSD-12000-12-3000	
		5000	1500-5000 / 110	0.83-10	FSD-12000-20-5000		
		Thruster	200	60-200 / 300	2.0-75	FSD-12000-03-200-300	
			500	150-500 / 300	2.0-75	FSD-12000-03-500-300	
			750	225-750 / 600	3.0-50	FSD-12000-06-750-600	
			1000	300-1000 / 1000	3.0-90	FSD-12000-10-1000-1000	
			2000	600-2000 / 1200	3.0-75	FSD-12000-20-2000-1200	
			3000	900-3000 / 1500	3.0-50	FSD-12000-30-2000-1500	
		5000	1500-5000 / 3000	3.0-50	FSD-12000-50-5000-3000		

- Output bore & mounting dimensions as per standards
- Accessories will be supplied as per client demand

Accessories

SINGULAR CONSTRUCTION



MODULAR CONSTRUCTION



CONTROL PANEL WITH SERVO CONTROLLER



Local control panel is wall-mounted design made of sheet metal.

This can be supplied with the following components

- Main switch • MCB on fuses for power & control circuits • Contactors • Push buttons for open / stop / close commands • Indicating lamps for various indications such as power on, open, close, faulty operation • Remote position indicator • Selector switch for Auto / Manual operations • Overload relay cum single phase preventor • Phase sequence protector • Current transformer • Space heater • Electronic braking unit for motor • Electronic Positioner • Relays for non - self locking actuators • D.C. supply source for two wire transmitter • Relays for DCS compatibility • Digital indicator • Connectors

The above-mentioned items are provided as per customer's specific requirements & wired accordingly.

LOCAL PUSH BUTTON STATION



This is a field switch unit to operate actuator locally & designed to work with reversing starter.

This version consist of

- Local push buttons for "Open-Close-Stop" commands • Selector switch for "Remote-Local-Off" commands

INTEGRAL STARTER



This is an integral part of the actuator. This version consists of in-built features of Local Push Button Station and Local Control Panel with minimum configuration of : • Reversing contactor • Selector switches for 'Remote-Local-Off' commands • Local push buttons for 'Open-Close-Stop' commands

POSITIONER TRANSMITTER



resistance transmitter of 100-235Ω (alternative values are also available) or a current transmitter with a unified signal of 4-20 mA.

The maximum load resistance is 500 W. The supply voltage of the transmitter is 12 to 36 V D.C.

Also available with non contact type position transmitter

POSITION INDICATOR



This will indicate 0-100% opening of the valve in control room. Input to this position indicator will be either from actuator mounted potentiometer (distance less than 5 m) or from actuator mounted current transmitter i.e.4-20mA.

ELECTRONIC POSITIONER



- Supply : Single phase 230 V AC • Input signal : 4-20 mA or 0 to 10 VDC • Output signal : 4-20 mA or 0 to 10 VDC • Output : Reversible contacts for Open & Close operation • Auto / Manual selection : Selector switch provided In auto mode open close operations are controlled by 4-20mA input signal & under Manual mode operation is through push buttons, by way of inching operations. • LED Indications : Open / Close / Opening / Closing • Digital Indicator : 3 1/2 Digit for 0 to 100 % opening of final control element
- Fuse protection provided

CONTROL STATION



LINKAGES



TRAVEL LIMIT & TORK LIMIT SWITCHES



Travel & Torque Limit Switches are available in 1NO + 1NC as well as 2NO + 2NC contact configuration.

Selection Guide Line For Electrical Actuators



SPACE HEATER

To prevent water condensation, actuator is fitted with an anti-condensation heater called space heater; the latter can be connected to AC or DC voltage of 230 V.



POTENTIOMETER

Ohmic position transmitter are available in multiturn / single Turn pot with pot gears for require ohmic output.



THERMOSTATE

Thermostat can be provided in motor for protection against overload.

SPUR GEAR BOX



Sdtork Spur gear box units are designed with electric multiturn 3000-series actuators. The unit is suitable to operate rising or non rising stem valves. These units are efficient, reliable & simple in construction.

GEAR BOXES

WORM GEAR BOX



Sdtork worm gear box units are specially designed to operate quarter turn valves like Ball Valve, Butterfly Valve, Plug Valves & Dampers. Adjustable Mechanical stopper & position indicator is standard feature of WG gear Box.

BEVEL GEAR BOX



These gear box have completely enclosed construction. The main casing is designed to withstand the shock & vibration of the piping system.

ELECTRIC ACTUATOR IN DOSING PUMP



Sdtork also supplies Electric Actuator in dosing pump application for stroke adjusting device.

MOUNTING BRACKETS & SPECIAL ADAPTORS



Any automation solution should essentially take into account adaptation of new actuator to suit the existing valves, which invariably are with non-standard mounting flanges.

Hence the adaptor is to be designed to cater to the variety in valve mounting flange designs. Sdtork's special adaptor design solution fulfils all applications and all valve mounting flanges.

STANDARD FEATURES & ACCESSORIES

- Position Limit switches [1 NO + 1 NC] 2 nos. change-over type
- Travel Limit switches [1 NO + 1 NC]
- Hand wheel
- Wide speed range
- Easy maintenance
- Hammer blow effect
- Local position indication

OPTIONAL ACCESSORIES, CONTROLS & PROTECTIONS

- Extra Limit switches
- 2 NO + 2 NC contacts for travel limit switches
- 2 NO + 2 NC contacts for torque Limit switches
- 'H' class insulation for motor
- Side mounted hand wheels to reduce rim pull effort, geared hand wheel is provided
- Remote position indicator Potentiometer, Current position transmitter, Non-contact type position transmitter
- Remote position indicator Analog / Digital
- Power supply
- Push button station
- Blinker switch
- Integral starter
- Control panel
- Electronic positioner
- Single phase protection
- Special control / protection features as per application demands can also be given for specific requirements.

CODES & STANDARDS

sdtork supplies actuators as per relevant National and International standards. As a minimum requirement, sdtork products are made to the following standards :

- Electric Motor operated actuator IS9334
- Degree of protection provided by enclosures at low voltage switch gear & control gear IS2147
- Degree of protection provided by enclosures at low voltage switch gear & control gear IS13247
- AC contactors for voltages not exceeding 1000 volts IS2959
- Degree of protection provided by enclosures for rotating electrical machinery IS4091
- Specification for motor rating electrical machines IS4722
- Flame Proof IS2148, 2004.


BSCIC
 Certificate of Registration
 QUALITY MANAGEMENT SYSTEM
 This is to certify that
SDTORK CONTROLS PVT. LTD.
 GAT NO.912, PLOT NO. 2, ALANDI MARKET ROAD
 VILLAGE, DHONORE, TAL. KHED, DIST. PUNE - 412 105
 MAHARASHTRA, INDIA
 Recently granted the Certificate Number: **BN54212/13866/1215**
 Conforms to the Registration Agreement contained in IS-IRIS 2015 and the registration has been found to be complying a Quality Management System conforming with the requirements of
ISO 9001:2008
Design, Manufacture, Supply, Installation and Commissioning of Electrical Actuator
 Originally Registered: 18-Dec-2015 Issue Date: 18-Dec-2015 Expiry Date: 23-Sep-2019
 For: **BSCIC CERTIFICATION PVT. LTD.**
 Page 1 of 1

Certificate of Compliance
 No. ZP140518/SCM209
 Technical Construction No. no. SD-C5-01 Rev 00.01: 18.07.2014

 Certificate's Holder: **SDTORK Controls Pvt. Ltd.**
 GAT No. 912, Plot No. 2, Alandi Market Road, Village - Dhonore - Tal. - Khed, Dist. Pune - 412 105, Maharashtra, India
 Certification ECM Mark:

 Product:
 Electrical actuators:
 • 000100001 Single phase motor from Electrical Actuators with
 • 000100002 Single phase motor from Electrical Actuators with
 • 000100003 Three phase motor from Electrical Actuators with
 • 000100004 Three phase motor from Electrical Actuators with
 • 000100005 Three phase motor from Electrical Actuators with
 • 000100006 Three phase motor from Electrical Actuators with
 • 000100007 Three phase motor from Electrical Actuators with
 • 000100008 Three phase motor from Electrical Actuators with
 • 000100009 Three phase motor from Electrical Actuators with
 • 000100010 Three phase motor from Electrical Actuators with
 Model(s): Refer annex 1 for variants under different series
 Verification to: Standards: EN 15714-2:2009; EN 41000-3-2:2014; EN 41000-3-3:2014
 referred to CE Directive(s): 2014/30/EU (Low Voltage) 2014/53/EU (Electromagnetic Compatibility)
 Remarks: The product has been certified in conformity with the product's CE mark. The manufacturer is responsible for ensuring the CE mark on the product.

 Date of issue: 18 July 2015 Expiry date: 17 May 2021
 Chief Engineer: [Signature] Deputy Engineer: [Signature]
 Site Certification Executive: [Signature]
 Mr. N.R. Kachare, Scientist E, Central Institute of Road Transport Engineering Division


Indian Register of Shipping
 Place: Mumbai
 Date: 22nd August 2015
 Certificate No: 2015TAC856
Type Approval of Electrical Actuators
 This is to certify that the Electrical Actuators described below have been tested in accordance with IRS Rules for the construction and classification of Steel Ship, July 2015 and suitable for vessels intended for installation on ships classed or intended to be classed with Indian Register of Shipping.

NAME OF MANUFACTURER	1. M/s. SDTORK CONTROLS PVT. LTD.
MANUFACTURING ADDRESS	1. GAT NO.912, Plot No.2, Alandi Market Road, Dhonore village, Khed Taluka, District Pune - 412105, Maharashtra, India.
TYPE OF PRODUCT	1. Flame Proof / Weather Proof electrical actuators (SEE Annexure 1)
APPLICATION	1. For motorized valves on board ships
CONDITIONS OF APPROVAL	1. SEE Annexure 1
VALIDITY	1. This Certificate is valid until 21 st August 2021


 Premjit Panigrahi, Principal Surveyor
 See Overleaf for Certificate of Approval of this Certificate

CIRT
TEST REPORT
 Report No.: ED15-16189998011Q1514
 To: SDTORK CONTROLS PVT. LTD.
 GAT NO. 912, PLOT 2, ALANDI MARKET ROAD, VILLAGE, DHONORE, TAL. - KHED, DIST. PUNE, PIN-412105
 20 OCT 2015

1. Nomenclature and Part No.	THREE PHASE FLAMEPROOF ELECTRICAL ACTUATOR MODEL: F18-1000 SERIES
2. Sample Regn. No. / Code No.	F18180118000011
3. No. / Quantity of Samples	1/10
4. Sample Supplied by	SDTORK CONTROLS PVT. LTD., PUNE
5. Ref Reference No.	SD15SPN/14-18 DM 15102015
6. Name of Manufacturer	SDTORK CONTROLS PVT. LTD.
7. Marking	SDTORK, SDTORK CONTROLS PVT. LTD. (ON STICKER)
8. Year Code No.	F18-1000/01/018/10/06
9. Date of receipt of sample	15/10/2015
10. Date of Technical clearance	15/10/2015
11. Date of Clearance of Doc.	15/10/2015
12. Specifications	PVT/CERT-030-3384
13. Identification of method used	As described in specification
14. Condition of Test	Good
15. Date of Completion of Test	20/10/2015
16. Test Results	As per Annexure 'A' (Enclosed)

 The test observations are reported as mentioned in Annexure A.
 Mr. N.R. Kachare, Scientist E,
 Central Institute of Road Transport Engineering Division
 No. 1 A 36662

Certif

CIRT
TEST REPORT
 Report No.: ED15-16189998011Q1514
 To: SDTORK CONTROLS PVT. LTD.
 GAT NO. 912, PLOT 2, ALANDI MARKET ROAD, VILLAGE, DHONORE, TAL. - KHED, DIST. PUNE, PIN-412105
 21 OCT 2015

1. Nomenclature and Part No.	SINGLE PHASE THREE PHASE QUARTER TURN FLAMEPROOF ELECTRICAL ACTUATOR MODEL: F18-1001 SERIES
2. Sample Regn. No. / Code No.	F18180118000001
3. No. / Quantity of Samples	1/10
4. Sample Supplied by	SDTORK CONTROLS PVT. LTD., PUNE
5. Ref Reference No.	SD15SPN/14-18 DM 30102015
6. Name of Manufacturer	SDTORK CONTROLS PVT. LTD.
7. Marking	SDTORK, SDTORK CONTROLS PVT. LTD. (ON STICKER)
8. Year Code No.	F18-1001/01018/10/06
9. Date of receipt of sample	15/10/2015
10. Date of Technical clearance	15/10/2015
11. Date of Clearance of Doc.	PVT/CERT-030-3384
12. Specifications	As described in specification
13. Condition of Test	Good
14. Date of Completion of Test	20/10/2015
15. Test Results	As per Annexure 'A' (Enclosed)

 The test observations are reported as mentioned in Annexure A.
 Mr. N.R. Kachare, Scientist E,
 Central Institute of Road Transport Engineering Division
 No. 1 A 36663

CIRT
TEST REPORT
 Report No.: ED15-16189998011Q15133
 To: SDTORK CONTROLS PVT. LTD.
 GAT NO. 912, PLOT 2, ALANDI MARKET ROAD, VILLAGE, DHONORE, TAL. - KHED, DIST. PUNE, PIN-412105
 20 OCT 2015

1. Nomenclature and Part No.	THREE PHASE ELECTRICAL ACTUATOR MODEL: SD-3000 SERIES
2. Sample Regn. No. / Code No.	F18180118000010
3. No. / Quantity of Samples	1/10
4. Sample Supplied by	SDTORK CONTROLS PVT. LTD., PUNE
5. Ref Reference No.	SD15SPN/14-18 DM 00102015
6. Name of Manufacturer	SDTORK CONTROLS PVT. LTD.
7. Marking	SDTORK, SDTORK CONTROLS PVT. LTD. (ON STICKER)
8. Year Code No.	F18-3000/01018/10/06
9. Date of receipt of sample	15/10/2015
10. Date of Technical clearance	15/10/2015
11. Date of Clearance of Doc.	PVT/CERT-030-3384
12. Specifications	As described in specification
13. Condition of Test	Good
14. Date of Completion of Test	20/10/2015
15. Test Results	As per Annexure 'A' (Enclosed)

 The test observations are reported as mentioned in Annexure A.
 Mr. N.R. Kachare, Scientist E,
 Central Institute of Road Transport Engineering Division
 No. 1 A 36665

के. पी. ए. ई. पी. ए. पी. ए. पी. ए. - CIMFR TESTING CELL
सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
(राजस्थान तथा औद्योगिक अनुसंधान विभाग)

ADDITIONAL FIRST COPY

CSIR - CENTRAL INSTITUTE OF MINING AND FUEL RESEARCH
FORMERLY - CENTRAL MINING RESEARCH INSTITUTE
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)
बम्बई रोड, पणवेल - ४२६०१५ (महाराष्ट्र) - बारवा रोड, धनबाद-८२६०१५ (भारत)
परीक्षण प्रमाण पत्र - TEST CERTIFICATE

FORMAT NO.: CIMFR/DQM: FLPQ2: F-01:REV-01
(Flameproof & Equipment Safety)

Prototype Report No.: CIMFR/TC/P/1977 Dated: 20 July, 2016
Equipment ID NO. 18/16 Code No. FLP/189A/15-16
Application Ref. No.: BDIL/PMB/BI/P Dated: 06/11/2015

- Applicant: M/S. SDTORK CONTROLS PVT. LTD., ALAKH MARBAL ROAD, DAT NO.: 94/2, PLOT NO. 3, VILLAGE - DHANORE, TAL.KHEDI, PUNE - 412 108
- Manufacturer: Same as above
- Apparatus: THREE PHASE FLAMEPROOF ELECTRICAL ACTUATOR
- Designated by: Model No: PFD-1000
- Gas Group, Zone: Zone 1 & 2 and Gas Group - IIC - atmosphere only.
- Electrical ratings: rated at 0.75KW/1HP, 415V AC, 4P/3W, 1500 rpm, 3Phase.
- Temperature Class: Refer separate test/project report
- Degree of Ingress Protection: IP-68 (Refer separate test report as declared by manufacturer)
- Material of Construction: Cast aluminium alloy LM-6 & CI grade (PG-26) construction. Refer drawing for material thickness at different locations of the enclosure.

9. Description of the apparatus: THREE PHASE FLAMEPROOF ELECTRICAL ACTUATOR.

Description	Volume (In Litre)		Min. Wall Thickness (mm)	Des. & Size of Bolts/Fasteners
	Gross	Net		
Enclosure - 1	6.4	3.4		Refer drawings
Enclosure - 2	3.03	1.8		Refer drawings
Enclosure - 3	2.86	1.27		Refer drawings

Note: For further details refer drawings.

के. पी. ए. ई. पी. ए. पी. ए. पी. ए. - CIMFR TESTING CELL
सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
(राजस्थान तथा औद्योगिक अनुसंधान विभाग)

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FORMERLY - CENTRAL MINING RESEARCH INSTITUTE
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)
बम्बई रोड, पणवेल - ४२६०१५ (महाराष्ट्र) - बारवा रोड, धनबाद-८२६०१५ (भारत)
परीक्षण प्रमाण पत्र - TEST CERTIFICATE

FORMAT NO.: CIMFR/DQM: FLPQ2: F-01:REV-01
(Flame & Explosion Laboratory)

Proto Report No.: CIMFR/TC/P/1977 Dated: 20 April, 2016
Equipment ID NO. 19/15 Code No. FLP/189/15-16
Application Ref. No.: BDIL/PMB/BI/P Dated: 30/10/2015
Letter Ref. No.: BCPL/095/15-16/AL Dated: 06/11/2015

- Applicant: M/S. SDTORK CONTROLS PVT. LTD., Alakh Marbal Road, Dat No: 94/2, Plot No-3, Village Dhanoore, Tal.Khedi, Pune-412108
- Manufacturer: Same as above
- Apparatus: Flameproof/Waterproof Electrical Actuator 1001 Series.
- Designated by: Model No: PFD-1001-25/40/30.
- Gas Group, Zone: Zone 1 & 2 and Gas Group: IIC atmosphere.
- Electrical ratings: Rated at 0.589/0.87VA, 2P/3W, 3Phase, 415V.
- Temperature Class: See separate report.
- Degree of Ingress Protection: IP-65 (See Serial: 4 AL).
- Material of Construction: Cast Aluminium Alloy LM-6 (Up to max. 0.1% corrosion). Refer drawing for material thickness at different locations of the enclosure.
- Description of the apparatus: Flameproof/Waterproof Electrical Actuator 1001 Series.

Description	Volume (In Litre)		Min. Wall Thickness (mm)	Des. & Size of Bolts/Fasteners
	Gross	Net		
Single Enclosure	12.5	5.1		Refer Drawing & Refer Drawing

9. Window details on cover

Window details on cover	Max. no. of apparatus on cover
Size = Ø72, Shape = Flat Glass Type = Toughened, Thickness = 10mm Cornered Part = 18mm Mounting Material = Epoxy Resin CR-3111 COT: 30° to 180°.	Supported by glass backing plate from inside.

के. पी. ए. ई. पी. ए. पी. ए. पी. ए. - CIMFR TESTING CELL
सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
(राजस्थान तथा औद्योगिक अनुसंधान विभाग)

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परीक्षण प्रमाण पत्र - TEST CERTIFICATE

FORMAT NO.: CIMFR/DQM: FLPQ2: F-01:REV-01
(Flame & Explosion Laboratory)

Prototype Report No.: CIMFR/TC/P/1977 Dated: 17th March, 2014
Equipment ID NO. 37/14 Code No. FLP/289/13-14
Application Ref. No.: BDIL/PMB/BI/P Dated: 09/01/2014

- Applicant: M/S. SDTORK CONTROLS PVT. LTD., ALAKH MARBAL ROAD, DAT NO.: 94/2, PLOT NO. 3, VILLAGE - DHANORE, TAL.KHEDI, PUNE - 412 108
- Manufacturer: Same as above
- Apparatus: FLAMEPROOF LINEAR ELECTRIC ACTUATOR 2000 SERIES.
- Designated by: Model No: 1Q-018/PFD-3001-04/PLP.
- Gas Group, Zone: Zone 1 & 2 and Gas Group - IIC - atmosphere only.
- Electrical ratings: rated 0.0021kW, 220/230V AC, 0.5HP, 2610RPM single phase.
- Temperature Class: Refer separate test/project report
- Degree of Ingress Protection: Not asked
- Material of Construction: Pressure die cast aluminium alloy LM-6 construction. Refer drawing for material thickness at different locations of the enclosure.
- Description of the apparatus: FLAMEPROOF LINEAR ELECTRIC ACTUATOR 2000 SERIES.

Description	Volume (In Litre)		Min. Wall Thickness (mm)	Des. & Size of Bolts/Fasteners
	Gross	Net		
Single Enclosure	2275	2000		3 Nos. M16x30mm long Allen bolt

9. Glass details

Glass details	Max. no. of apparatus on cover
Nil	Nil

Page 1 of 9

के. पी. ए. ई. पी. ए. पी. ए. पी. ए. - CIMFR TESTING CELL
सीएसआईआर-केन्द्रीय खनन एवं ईंधन अनुसंधान संस्थान
(राजस्थान तथा औद्योगिक अनुसंधान विभाग)

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परीक्षण प्रमाण पत्र - TEST CERTIFICATE

FORMAT NO.: CIMFR/DQM: FLPQ2: F-01:REV-01
(Flame & Explosion Laboratory)

Prototype Report No.: CIMFR/TC/P/1977 Dated: 17th March, 2014
Equipment ID NO. 38/14 Code No. FLP/289A/13-14
Application Ref. No.: BDIL/PMB/BI/P Dated: 09/01/2014

- Applicant: M/S. SDTORK CONTROLS PVT. LTD., ALAKH MARBAL ROAD, DAT NO.: 94/2, PLOT NO. 3, VILLAGE - DHANORE, TAL.KHEDI, PUNE - 412 108
- Manufacturer: Same as above
- Apparatus: FLAMEPROOF LINEAR ELECTRIC ACTUATOR 2000 SERIES.
- Designated by: Model No: 8Q-018/SD-2001-10/PLP.
- Gas Group, Zone: Zone 1 & 2 and Gas Group - IIC - atmosphere only.
- Electrical ratings: rated 0.0021kW, 220/230V AC, 0.5HP, 2610RPM single phase.
- Temperature Class: Refer separate test/project report
- Degree of Ingress Protection: Not asked
- Material of Construction: Pressure die cast aluminium alloy LM-6 construction. Refer drawing for material thickness at different locations of the enclosure.
- Description of the apparatus: FLAMEPROOF LINEAR ELECTRIC ACTUATOR 2000 SERIES.

Description	Volume (In Litre)		Min. Wall Thickness (mm)	Des. & Size of Bolts/Fasteners
	Gross	Net		
Single Enclosure	6000	4100		3 Nos. M16x30mm long Allen bolt

9. Glass details

Glass details	Max. no. of apparatus on cover
Nil	Nil

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ELECTRONICS TEST & DEVELOPMENT CENTRE - PUNE
Standardisation Testing & Quality Certification Directorate
Department of Electronics & Information Technology
Ministry of Communication & Information Technology
GOVERNMENT OF INDIA
Agriculture College Campus, Shivajinagar
PUNE - 411 005

Test Report on: Single phase/three phase quarter turn flameproof electrical actuator.

Report No.: TG-061(16-17) Date: 28/07/16 Page 12 of 14

Sl. No.	Test	Condition	Requirement	Observations
10.1	Pre-functional check	As per Annexure-A	As per Annexure-A	Complied
10.2	Vibration Test As per IEC 60068-2-6	Test Arms Ambient: Temperature: 25 ±4°C/19°C Relative Humidity: 90% ±30% Air Pressure: 960mb/1 bar ±100mmbar Frequency: 10 Hz to 200 Hz Acceleration: 20m/s² (1.0 g) Sweep Rate: 1 Octave/octave Sweep Duration: 10 min/cycle Duration: 100 Minutes (10 cycles/cycle) No. of Axis (X,Y,Z) Condition of item: Unpacked and switched-off	To be conditioned	Conditional
10.3	Post functional check	As per Annexure-A	As per Annexure-A	Complied

Tested by: [Signature] Approved by Head (Testing): [Signature] Issued by Head (CSC): [Signature]

ELECTRONICS TEST & DEVELOPMENT CENTRE - PUNE
Standardisation Testing & Quality Certification Directorate
Department of Electronics & Information Technology
Ministry of Communication & Information Technology
Government of India
Agriculture College Campus, Shivajinagar
PUNE - 411 005

Test Report on: Single phase/three phase quarter turn flameproof electrical actuator.

Report No.: TG-060(16-17) Date: 25/07/16 Page 2 of 4

Sl. No.	Test	Condition	Requirement	Observations
10.1	Pre-functional check	As per Annexure-A	As per Annexure-A	Complied
10.2	Damp heat test	Ref:BS 9000 Part V Sec 1 & 2-1981, Reaffirmed 2004 Upper temperature: 40 °C ± 2 °C Relative humidity: 93 ± 3% Vibrant 02 Number of cycles: 02 Condition of item: Unpacked and switched-off Recovery: 1 to 2 hours	To be conditioned	Conditional
10.3	Post functional check	As per Annexure-A	As per Annexure-A	Complied

Tested by: [Signature] Approved by Head (Testing): [Signature] Issued by Head (CSC): [Signature]



Chemical Sector



Chemical Sector



Power Sector



Other Sector



Food Industries



Filter Bed Automation



Sewage Treatment Plant



Water Sector

As "Electrical Actuator Specialist" we have put before you comprehensive range of our products, in the form of Abridged Catalogue; but you can observe, this is not the end of our product range. There are many actuators, which could not be listed here due to lack of space. Also there are many actuators, which are customized & Manufactured as per the customer's specification. The best way to obtain further information is to contact us by specifying your requirements using Telephone, Fax or E-mail; We assure you, there is a Actuator in our vast range which will suit your requirement.

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Our Range of Products

- **1000-SERIES**
Single phase quarter turn Electrical Actuator
- **2000-SERIES**
Single phase linear Electrical Actuator
- **3000-SERIES**
Three phase multi-turn rotary Electrical Actuator with/without integral starter available in IP55, IP65, IP67, IP68 & FLP protections.
- **4000-SERIES**
Three phase quarter-turn rotary Electrical Actuator with/without integral starter available in IP55, IP65, IP67, IP68 & FLP protections
- **5000-SERIES**
Three phase quarter-turn rotary Electrical Actuator with linkages for damper application with/without integral starter available in IP55, IP65, IP67, IP68 & FLP protections
- **6000-SERIES**
Three phase linear Electrical Actuator for control valve with / without integral starter available in IP55, IP65, IP67, IP68 & FLP protections
- **7000-SERIES**
Three phase linear Cylinder Electrical Actuator (Thruster) with different strokes for material handling, coal handling & related applications
- **8000-SERIES**
Three phase Multi Turn Electrical Actuator with Bevel Gear Box
- **10000-SERIES**
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- Three phase multi-turn rotary Electrical Actuator with spur gear combination
- Three phase quarter-turn rotary Electrical Actuator with worm gear combination
- Wall/Panel mounted control panel / customised control panel
- Actuator mounted valve positioner
- Servo controller, wall/panel mounted
- Position transmitter
- Position transmitter with linkage & mounting for linear/rotary stroke
- Manual push button controller, wall/panel mounting type
- Digital position indicator
- Signal multiplier
- 4-20 mA source generator
- PID controller
- Complete pressure control loop
- Complete temperature control loop
- Complete flow control loop
- Automation of existing valves by means of retrofitting

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