

The LTKD type is a motorized actuator suitable mainly for valve sizes 350A and higher, and uses three-phase 200 V and 400 V power supplies. In addition to on-off control, it can be used for slot-ring control because of its built-in electric positioner (seitroller). It also supports special specification requirements.



■Features

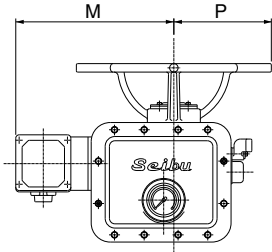
- Utilizes dedicated high-torque motor.
- Highly reliable counter-gear-type cam limit switch
- Output shaft dual sleeve system
- Supports wide range of output torques and open-close times by combining motors of differing capacities.

LTKD Specifications							
Type	LTKD-01		LTKD-02		LTKD-05		LTKD-1
Motor capacity (Wk)	0.2	0.4	0.4	0.75	0.75	1.5	1.5
Weight (kg)	55	58	72	83	127	130	187
Power source (V)	AC200, AC220, AC400V, AC440 50/60Hz Three phase						
Rating (min)	15 min. (With brake: 30 min.)						
Number of poles	4						
Insulation	Class B (option class F and H)						
Motor protection	None (Please provide thermal relay separately.)						
Space heater	Supplied as standard specification (Rated power: 15W)						
Position limit switch	1 each for fully open and fully closed (contact capacity: AC250V, 5A)						
Torque limit switch	1 each for fully open and fully closed (contact capacity: AC250V, 15A)						
Brake	Optional (Will not be supplied as standard.)						
Conduit connection	G1 at two locations (for control) and G3/4 (for motor)						
Enclosure	JIS C 0920 (IP 55), class 5, dust and water-jet proof type						
Manual operation	Always (round handle and built-in manual return clutch)						
Ambient temperature	- 10 to 50 degrees C						
Coating	Lacquer primer (Munsell N7)						
Options	①Potentiometer 500Ω, 1kΩ ②Intermediate limit switch (no voltage) ③Synchro reciever, transmitter ④Seimitter (R/I converter) ⑤Seitroller (DC4 to 20mA I/O) ⑥Withstand pressure anti-explosion type (d2G4)						

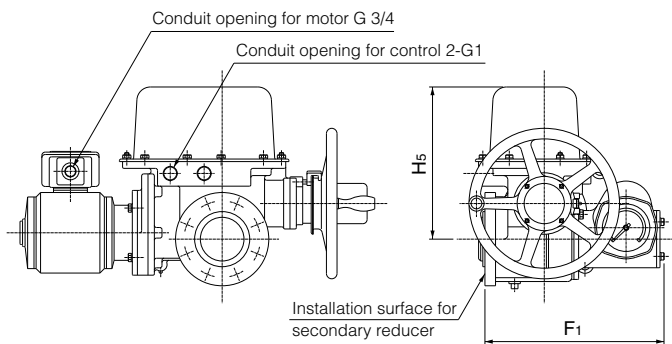
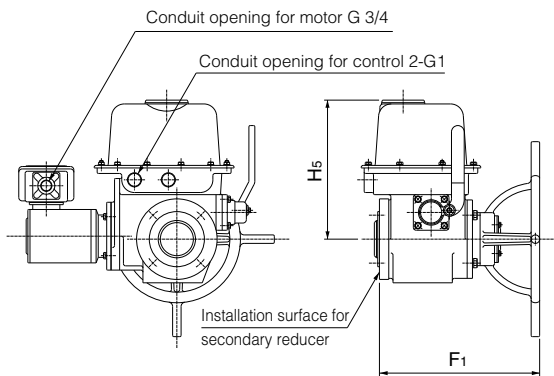
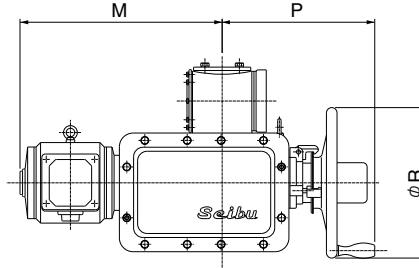
Remark: Open and close time differs depending on motor gear ratio (number of sleeve rotations) and type of secondary reducer.

LTKD Dimensions

LTKD-01, 02



LTKD-05, 1



LTKD Dimensions and Weight

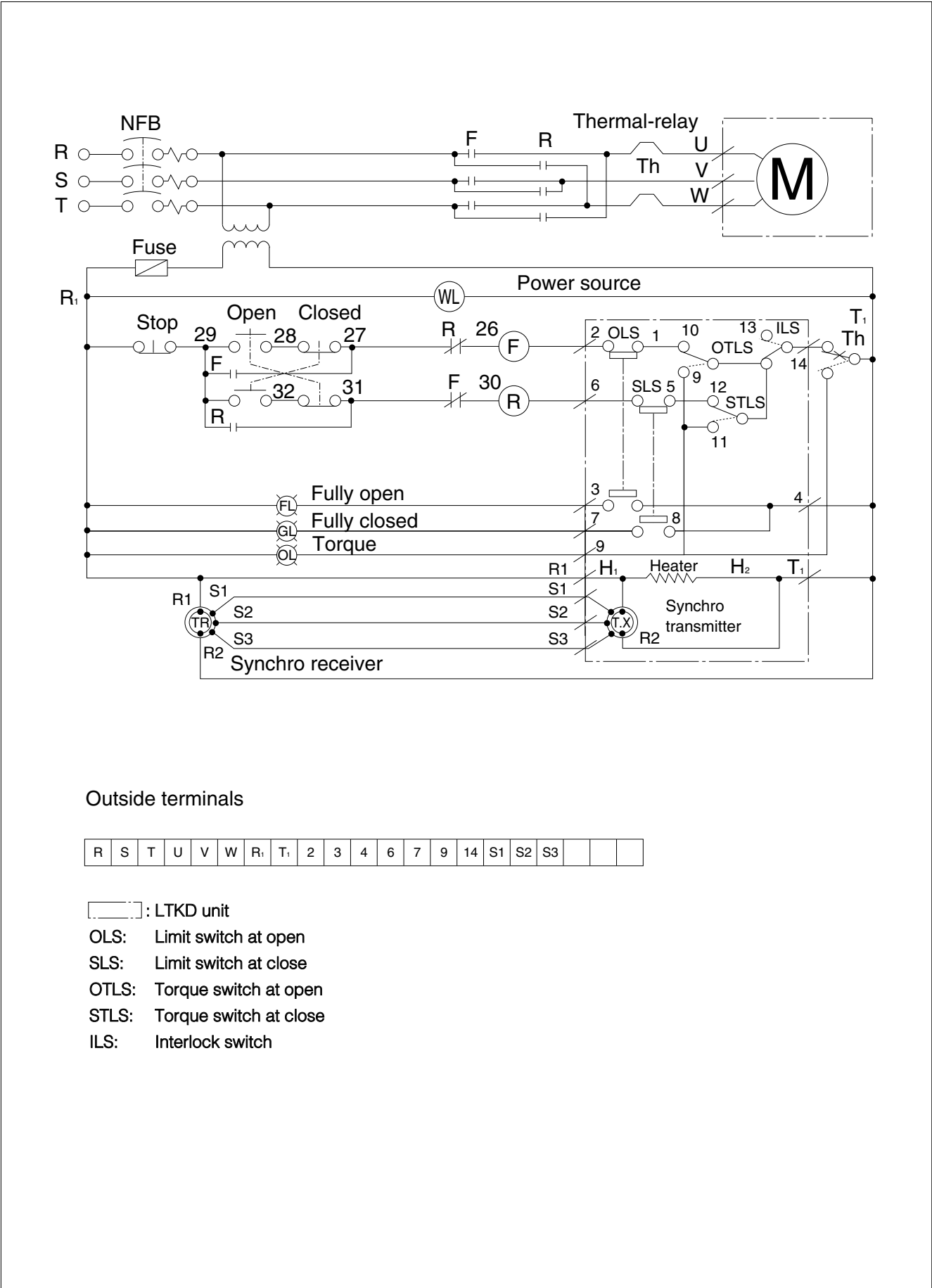
Type	Motor capacity	Dimensions (mm)					Approx.Mass (kg)
		M	P	F ₁	H ₅	R	
LTKD-01	0.2kW	363	230	342	293	—	55
	0.4kW	373	230	342	293	—	58
LTKD-02	0.4kW	373	230	378	328	—	72
	0.75kW	400	230	378	328	—	83
LTKD-05	0.75kW	440	360	422	359	355	127
	1.5kW	477	360	422	359	355	130
LTKD-1	1.5kW	537	410	488	399	355	187

Remark: The table above shows dimensions for an actuator with a motor without brake.

LTKD Motor currents

Type	Impressed voltage (V)	Frequency (Hz)	No brake (Type B and Standard)		With brake (Type B and Option)	
			Rated current (A)	Starting current (A)	Rated current (A)	Starting current (A)
0.2kW	200	50	1.8	7.6	1.9	7.6
	200	60	1.4	6.9	1.5	6.9
	220	50	—	—	—	—
	220	60	1.5	7.6	1.7	7.6
	400	50	0.91	3.9	1.0	3.9
	400	60	0.75	3.6	0.85	3.6
	440	50	—	—	—	—
	440	60	0.78	4.0	0.89	4.0
0.4kW	200	50	2.5	10.2	2.6	10.2
	200	60	2.2	9.6	2.3	9.6
	220	50	—	—	—	—
	220	60	2.2	9.6	2.3	10.6
	400	50	1.2	4.6	1.3	4.6
	400	60	0.99	4.4	1.1	4.4
	440	50	—	—	—	—
	440	60	1.1	4.9	1.2	4.9
0.75kW	200	50	3.9	18.9	4.0	18.9
	200	60	3.5	17.3	3.7	17.3
	220	50	—	—	—	—
	220	60	3.4	19.4	3.6	19.4
	400	50	1.9	9.0	2.0	9.0
	400	60	1.8	8.4	1.9	8.4
	440	50	—	—	—	—
	440	60	1.8	9.5	1.9	9.5
1.5kW	200	50	7.7	38.0	7.9	38.0
	200	60	6.9	35.0	7.1	35.0
	220	50	—	—	—	—
	220	60	6.6	39.5	6.8	39.5
	400	50	3.9	19.0	4.0	19.0
	400	60	3.5	17.5	3.7	17.5
	440	50	—	—	—	—
	440	60	3.3	19.8	3.5	19.8

LTKD Wiring diagram



Outside terminals

R	S	T	U	V	W	R ₁	T ₁	2	3	4	6	7	9	14	S ₁	S ₂	S ₃			
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: LTKD unit

OLS: Limit switch at open

SLS: Limit switch at close

OTLS: Torque switch at open

STLS: Torque switch at close

ILS: Interlock switch