

LTKD

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

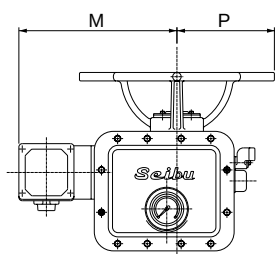
- Utilizes dedicated high-torque motor.
- Highly reliable counter-gear-type cam limit switch
- Output shaft dual sleeve system
- Supports wide range of output torques and open-close times by combining motors of differing capacities.

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 E (option class B)						
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	① Potentiometer 500Ω, 1kΩ ② Intermediate limit switch (no voltage) ③ Synchro reciever, transmitter ④ Seimitter (R/I converter) ⑤ Seitroller (DC4 to 20mA I/O) ⑥ Withstand pressure anti-explosion type (d2G4)						

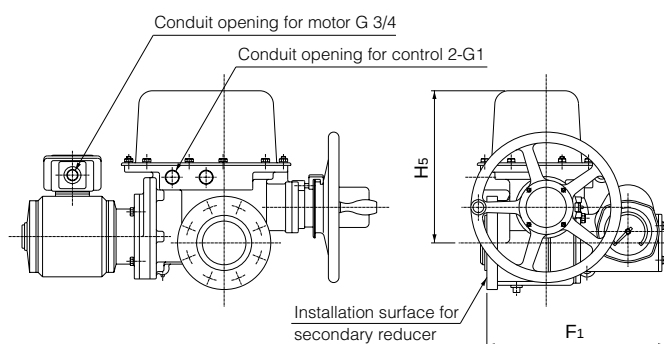
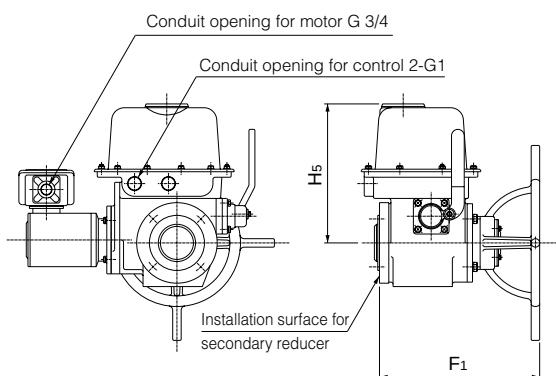
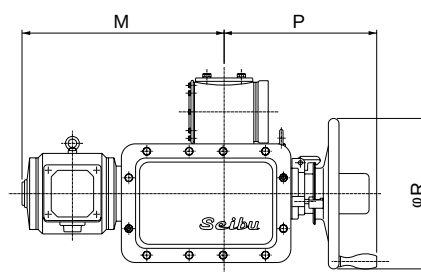
Remark: Open and close time differs depending on motor gear ratio (number of sleeve rotations) and type of secondary reducer.

LTKD Dimensions

LTKD-01, 02



LTKD-05, 1



LTKD Dimensions and Weight

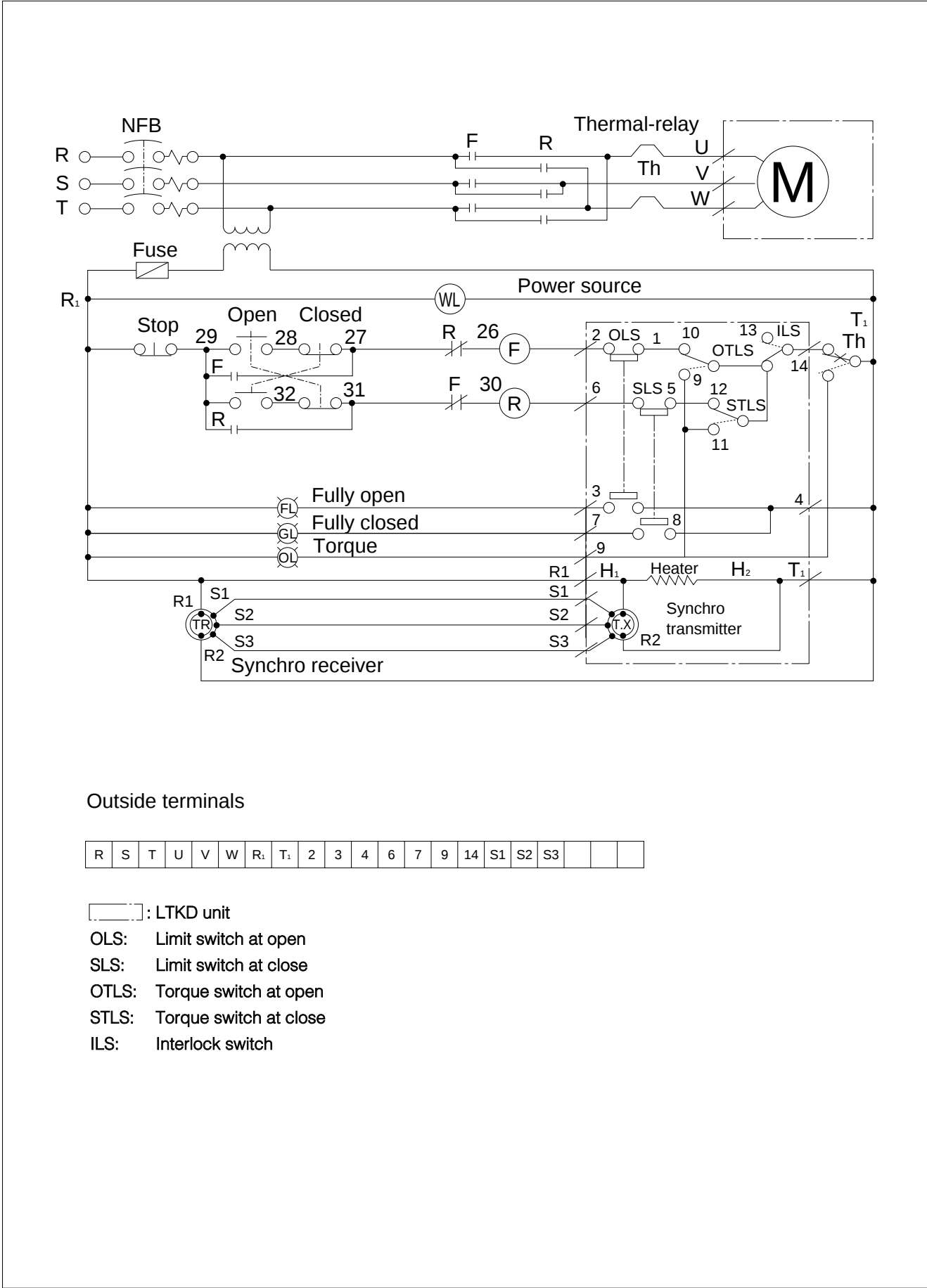
Type	Motor capacity	Dimensions (mm)					Approx.Mass (kg)
		M	P	F ₁	H ₅	R	
LTKD-01	0.2kW	363	230	342	293	-	55
	0.4kW	373	230	342	293	-	58
LTKD-02	0.4kW	373	230	378	328	-	72
	0.75kW	400	230	378	328	-	83
LTKD-05	0.75kW	440	360	422	359	355	127
	1.5kW	477	360	422	359	355	130
LTKD-1	1.5kW	537	410	488	399	355	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 E and Standard)		With brake (Type E and Option)	
			Rated current (A)	Starting current (A)	Rated current (A)	Starting current (A)
0.2kW	200	50	1.8	6.08	1.82	5.0
	200	60	1.4	5.56	1.48	4.8
	220	50	2.2	6.68	-	-
	220	60	1.5	6.10	1.56	5.2
	400	50	0.9	3.04	0.91	2.5
	400	60	0.7	2.78	0.74	2.4
	440	50	1.1	3.34	-	-
	440	60	0.77	3.05	0.78	2.6
0.4kW	200	50	2.5	8.00	2.4	8.1
	200	60	2.2	7.40	2.2	7.7
	220	50	2.7	8.80	-	-
	220	60	2.2	8.14	2.1	8.5
	400	50	1.3	4.00	1.2	4.05
	400	60	1.1	3.70	1.1	3.9
	440	50	1.4	4.40	-	-
	440	60	1.1	4.07	1.0	4.3
0.75kW	200	50	4.4	15.6	3.9	15.0
	200	60	4.0	15.2	3.5	14.0
	220	50	4.4	17.2	-	-
	220	60	3.8	16.7	3.4	15.0
	400	50	2.2	7.8	2.0	7.5
	400	60	2.0	7.6	1.8	7.0
	440	50	2.2	8.6	-	-
	440	60	1.9	8.4	1.7	7.5
1.5kW	200	50	8.4	36.0	7	31.5
	200	60	7.2	33.0	6.6	28.7
	220	50	8.8	39.0	-	-
	220	60	7.0	36.0	6.2	31.6
	400	50	4.2	18.0	3.5	15.8
	400	60	3.6	16.5	3.3	14.4
	440	50	4.4	19.5	-	-
	440	60	3.5	18.0	3.1	15.8

LTKD Wiring diagram



Outside terminals

R	S	T	U	V	W	R ₁	T ₁	2	3	4	6	7	9	14	S1	S2	S3				
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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