

## Recommended Parameter Values by Actuator Model(LECSB)

These are the "Recommended parameter values" for the LECSB driver for each actuator.  
(Setup Software(MR Configurator2™) : For part No. LEC-MRC2E)

These recommended parameter values have been created for use in control mode "Position control mode (pulse input)" and for actuator with stroke less than 1000 mm.

Please change the parameter values by use of the customer.  
Refer to "LECSB Operation Manual", section 5 for details.

### Recommended Parameter Values [LEF]

Series				LEFS25			LEFS32			LEFS40		
	Lead symbol			H	A	B	H	A	B	H	A	B
	Lead			20	12	6	24	16	8	30	20	10
Parameter *1,*2	Para. No.	Initial value	Recommended value									
Number of command input pulses per revolution *3	PA05	0	0									
Electronic gear numerator *3	PA06	1	32768									
Electronic gear denominator *3	PA07	1	250	150	75	300	200	100	375	250	125	
Regenerative option	PA02	0000	0000(Non) / 0002(LEC-MR-RB-032)									
Rotation direction selection *4	PA14	0	1(+: Counter motors side)									
Adaptive tuning mode	PB01	0000	0000									
Load to motor inertia moment ratio	PB06	7	7									
Machine resonance suppression filter 1	PB13	4500	4500									
Notch shape selection 1	PB14	0000	0000									

 Different from the initial value.

\*1 Parameter is the recommended value. Please change the parameter to make appropriate value for your operating method.

\*2 A mechanical resonance may occur depending on the configuration or the mounting orientation of the transferred object. Please change the parameter in the initial setting.


(Parameter initial configuration ⇒ Set the recommended parameter value ⇒ Operation start)

\*3 The travel distance of the actuator per 1 pulse should be 10 [μm/pulse].

\*4 When the motor mounting position is right side parallel (LEFS\*R) or left side parallel (LEFS\*L), the rotation direction selection is 0(+: Counter motors side).

Series			LEFB25	LEFB25U	LEFB32	LEFB32U	LEFB40	LEFB40U
	Lead symbol		S					
	Lead		54					
Parameter *1,*2	Para. No.	Initial value	Recommended value					
Number of command input pulses per revolution *3	PA05	0	0					
Electronic gear numerator *3	PA06	1	32768					
Electronic gear denominator *3	PA07	1	675					
Regenerative option	PA02	0000	0000(Non) / 0002(LEC-MR-RB-032)					
Rotation direction selection	PA14	0	1(+: Counter motors side)	0(+: Counter motors side)	1(+: Counter motors side)	0(+: Counter motors side)	1(+: Counter motors side)	0(+: Counter motors side)
★ Adaptive tuning mode	PB01	0000	0002		0000			
★ Load to motor inertia moment ratio	PB06	7	50					
★ Machine resonance suppression filter 1	PB13	4500	400		4500			
★ Notch shape selection 1	PB14	0000	0030		0000			

★ Parameter should be changed.

 Different from the initial value.

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\*2 A mechanical resonance may occur depending on the configuration or the mounting orientation of the transferred object. Please change the parameter in the initial setting.

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\*3 The travel distance of the actuator per 1 pulse should be 10 [μm/pulse].

# Recommended Parameter Values [LEJ]

Series			LEJS40			LEJS63			LEJB40	LEJB63
	Lead symbol		H	A	B	H	A	B	T	
	Lead		24	16	8	30	20	10	27	42
Parameter *1,*2	Para. No.	Initial value	Recommended value							
Number of command input pulses per revolution *3	PA05	0	0							
Electronic gear numerator *3	PA06	1	32768						65536	32768
Electronic gear denominator *3	PA07	1	300	200	100	375	250	125	675	525
Regenerative option	PA02	0000	0000(Non) / 0002(LEC-MR-RB-032) / 0003(LEC-MR-RB-12)							
Rotation direction selection	PA14	0	1 (+: Counter motors side)						0 (+: Counter motors side)	
★ Adaptive tuning mode	PB01	0000	0000						0002	0000
★ Load to motor inertia moment ratio	PB06	7	7						50	
★ Machine resonance suppression filter 1	PB13	4500	4500						400	4500
★ Notch shape selection 1	PB14	0000	0000						0030	0000

★ Parameter should be changed.

 Different from the initial value.

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(Parameter initial configuration ⇒ Set the recommended parameter value ⇒ Operation start)

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# Recommended Parameter Values [LEY]

Series			LEY25/ LEYG25			LEY25D/ LEYG25D			LEY32/ LEYG32			LEY32D/ LEYG32D			
	Lead symbol		A	B	C	A	B	C	A	B	C	A	B	C	
	Lead		12	6	3	12	6	3	20	10	5	16	8	4	
Parameter *1,*2	Para. No	Initial value	Recommended value												
Number of command input pulses per revolution *3	PA05	0	0												
Electronic gear numerator *3	PA06	1	32768			65536		32768		65536		32768		65536	
Electronic gear denominator *3	PA07	1	150	75	75	150	75	75	250	125	125	200	100	50	
Regenerative option	PA02	0000	0000 (Non)/ 0002 (LEC-MR-RB-032)												
Rotation direction selection	PA14	0	0 (+: Counter motors side)			1 (+: Counter motors side )			0 (+: Counter motors side)			1 (+: Counter motors side )			
Adaptive tuning mode	PB01	0000	0000												
Load to motor inertia moment ratio	PB06	7	7												
Machine resonance suppression filter 1	PB13	4500	4500												
Notch shape selection 1	PB14	0000	0000												

Series			LEY63				LEY63D		
	Lead symbol		A	B	C	L	A	B	C
	Lead (Including pulley ratio)		20	10	5	5(2.86) (Pulley ratio 4/7)	20	10	5
Parameter *1,*2	Para. No	Initial value	Recommended value						
Number of command input pulses per revolution *3	PA05	0	0						
Electronic gear numerator *3	PA06	1	32768		65536	114688	32768		65536
Electronic gear denominator *3	PA07	1	250	125	125	125	250	125	125
Regenerative option	PA02	0000	0000 (Non)/ 0002 (LEC-MR-RB-032)/ 0003 (LEC-MR-RB-12)						
Rotation direction selection	PA14	0	0 (+: Counter motors side)				1 (+: Counter motors side )		
Adaptive tuning mode	PB01	0000	0000						
Load to motor inertia moment ratio	PB06	7	7						
Machine resonance suppression filter 1	PB13	4500	4500						
Notch shape selection 1	PB14	0000	0000						

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