

Size	Motor size	28 mm sq. (1.8° full step angle)		42 mm sq. (1.8° full step angle)	
		32 mm	51.5 mm	33 mm	39 mm
Single shaft	Set order no.	DU14S281S	DU14S285S	DU15S421S	DU15S422S
	Motor model no.	SH2281-5271	SH2285-5271	SF2421-12U41	SF2422-12U41
Dual shaft	Set order no.	DU14S281D	DU14S285D	DU15S421D	DU15S422D
	Motor model no.	SH2281-5231	SH2285-5231	SF2421-12U11	SF2422-12U11
Holding torque		N·m		0.055	0.115
Rotor inertia		$\times 10^{-4}$ kg·m ²		0.031	0.046
Rated current		A/phase		1	1
Motor mass ⁽¹⁾		kg		0.11	0.2
Allowable thrust load		N		3	3
Allowable radial load ⁽²⁾		N		42	49
				39	37

(1) For the driver mass, see ▶ p. 26

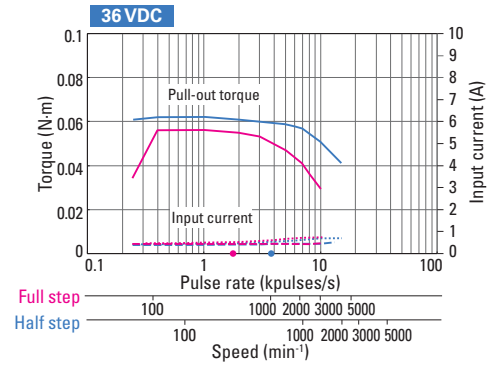
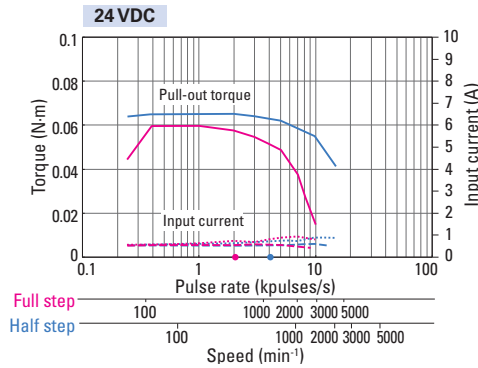
(2) Load is exerted to the shaft end.

Characteristics

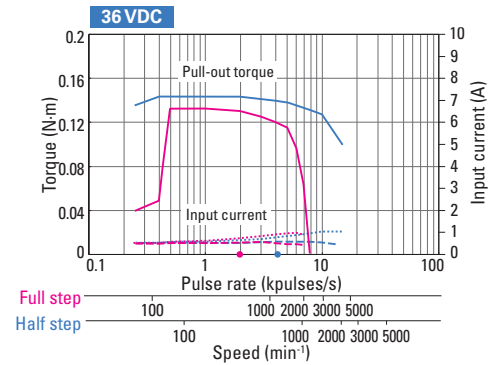
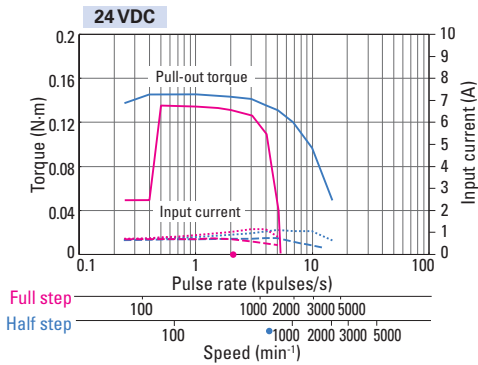
With rubber coupling used

Pull-out torque Full step —●— Half step —●— fs: Maximum starting pulse rate with no load Full step ● Half step ●
 Input current (with no load) Full step - - - Half step - - - Input current (with load) Full step Half step

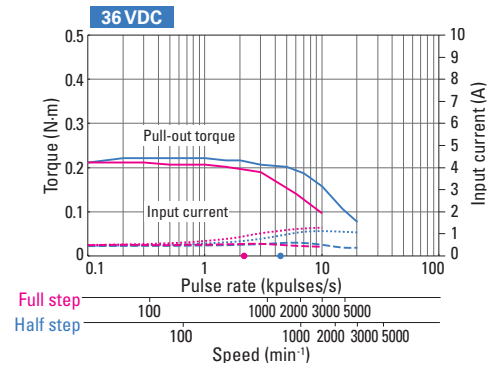
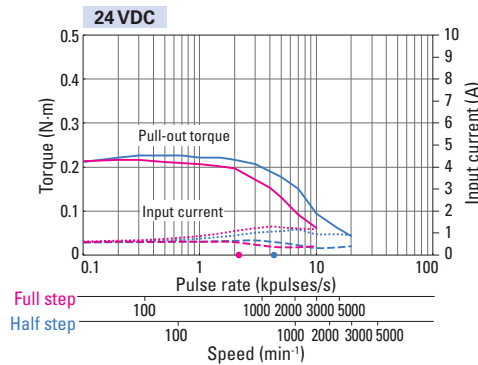
DU14S281S DU14S281D



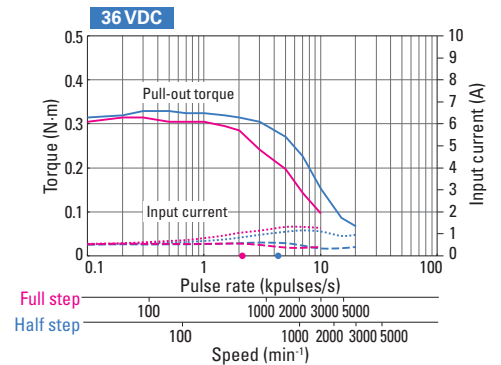
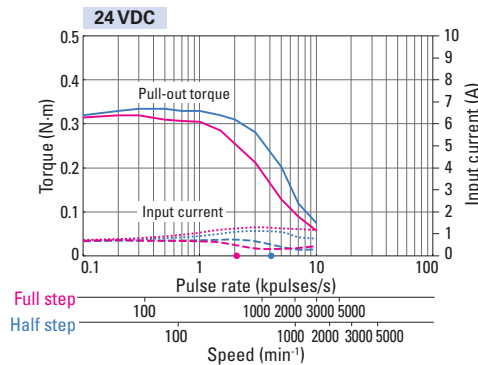
DU14S285S DU14S285D



DU15S421S DU15S421D



DU15S422S DU15S422D



Size	Motor size		42 mm sq. (1.8° full step angle)		42 mm sq. (0.9° full step angle)	
	Motor length		48 mm	59.5 mm	33 mm	39 mm
Single shaft	Set order no.		DU15S423S	DU15S424S	DU15S141S	DU15S142S
	Motor model no.		SF2423-12U41	SF2424-12U41	SH1421-0441	SH1422-0441
Dual shaft	Set order no.		DU15S423D	DU15S424D	DU15S141D	DU15S142D
	Motor model no.		SF2423-12U11	SF2424-12U11	SH1421-0411	SH1422-0411
Holding torque	N·m		0.4	0.58	0.2	0.29
Rotor inertia	$\times 10^{-4}$ kg·m ²		0.063	0.094	0.044	0.066
Rated current	A/phase		1.2	1.2	1.2	1.2
Motor mass ⁽¹⁾	kg		0.38	0.51	0.24	0.29
Allowable thrust load	N		10	10	10	10
Allowable radial load ⁽²⁾	N		35	29	25	24

(1) For the driver mass, see ▶ p. 26

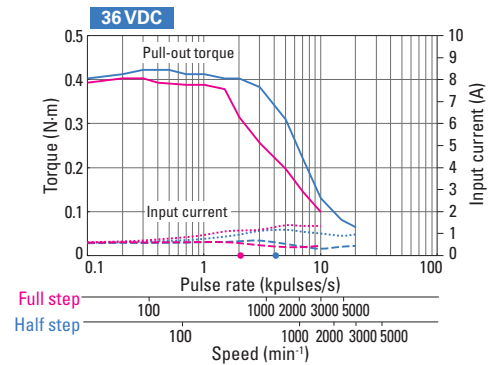
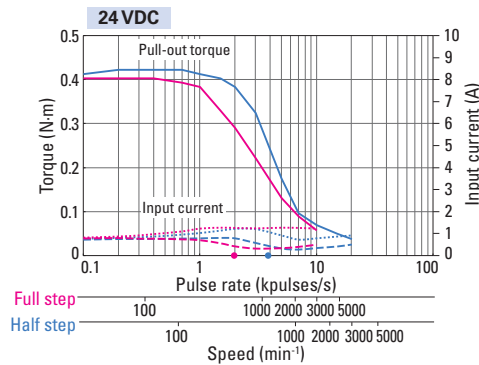
(2) Load is exerted to the shaft end.

Characteristics

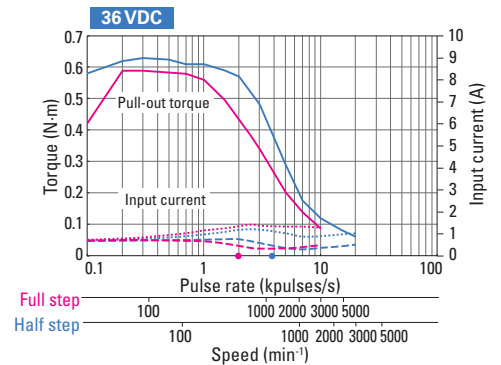
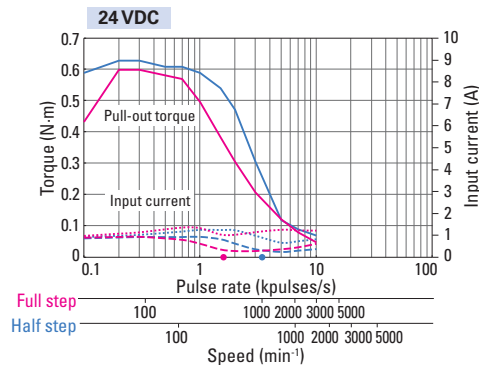
With rubber coupling used

Pull-out torque Full step — Half step — fs: Maximum starting pulse rate with no load Full step ● Half step ●
 Input current (with no load) Full step - - - Half step - - - Input current (with load) Full step ····· Half step ·····

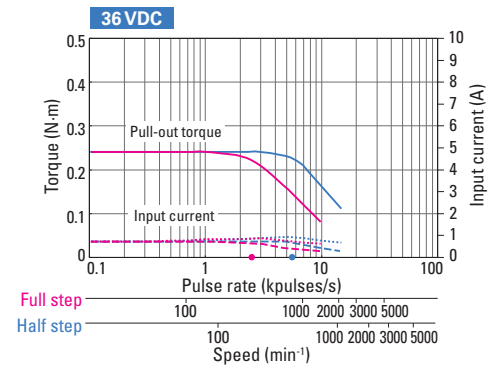
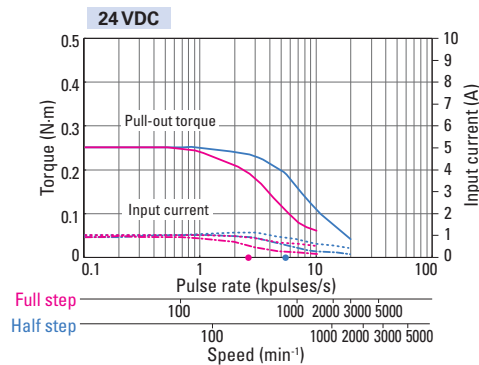
DU15S423S DU15S423D



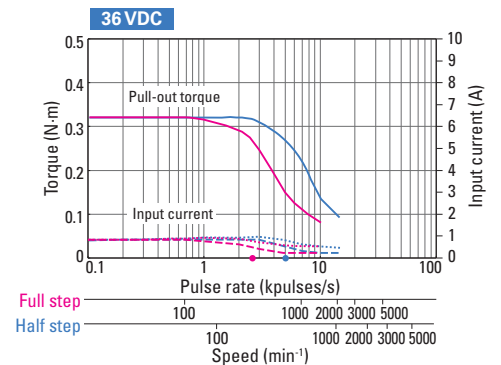
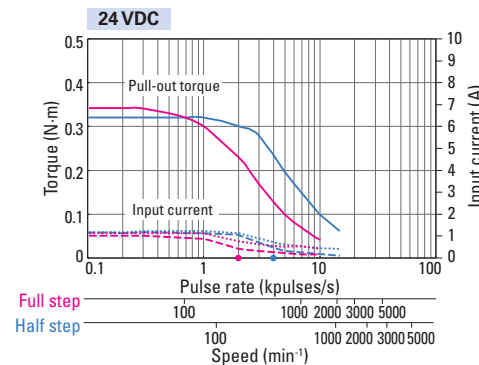
DU15S424S DU15S424D



DU15S141S DU15S141D



DU15S142S DU15S142D



Size	Motor size	42 mm sq. (0.9° full step angle)	56 mm sq. (1.8° full step angle)			
	Motor length	48 mm	41.8 mm	53.8 mm	75.8 mm	
Single shaft	Set order no.	DU15S144S	DU16M711S	DU16M712S	DU16M713S	
	Motor model no.	SH1424-0441	SM2561C20U41	SM2562C20U41	SM2563C20U41	
Dual shaft	Set order no.	DU15S144D	DU16M711D	DU16M712D	DU16M713D	
	Motor model no.	SH1424-0411	SM2561C20U11	SM2562C20U11	SM2563C20U11	
Holding torque		N·m	0.39	0.53	1.1	1.7
Rotor inertia		$\times 10^{-4}$ kg·m ²	0.089	0.14	0.28	0.5
Rated current		A/phase	1.2	2	2	2
Motor mass ⁽¹⁾		kg	0.38	0.49	0.69	1.1
Allowable thrust load		N	10	20	20	20
Allowable radial load ⁽²⁾		N	20	115	106	93

(1) For the driver mass, see ▶ p. 26

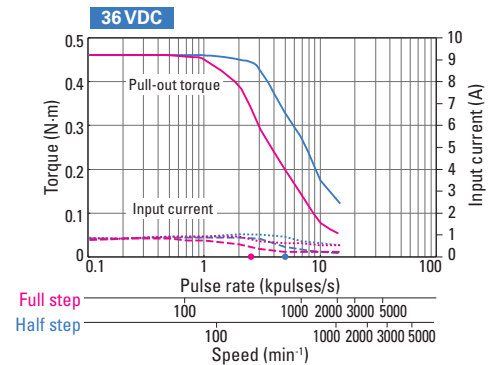
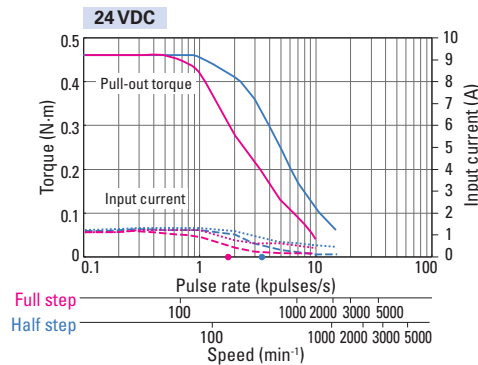
(2) Load is exerted to the shaft end.

Characteristics

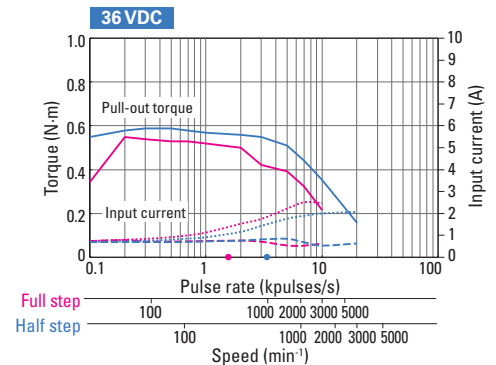
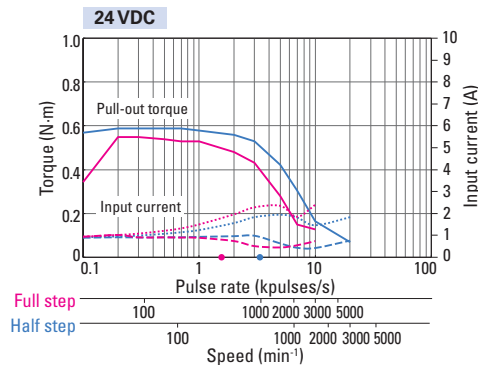
With rubber coupling used

Pull-out torque Full step — Half step — fs: Maximum starting pulse rate with no load Full step ● Half step ●
 Input current (with no load) Full step - - - Half step - - - Input current (with load) Full step ····· Half step ·····

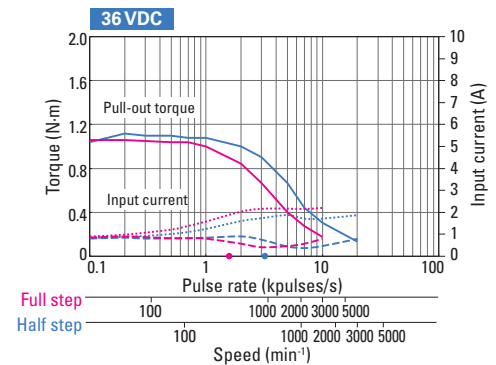
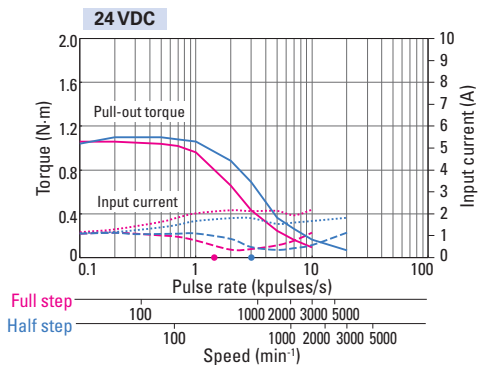
DU15S144S DU15S144D



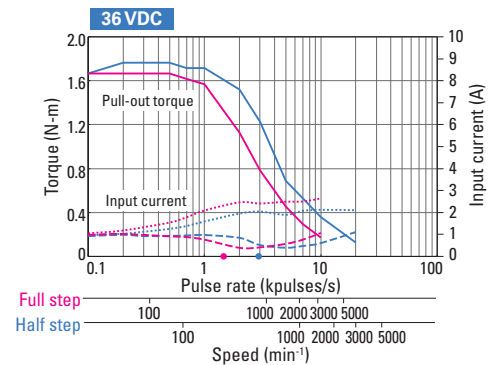
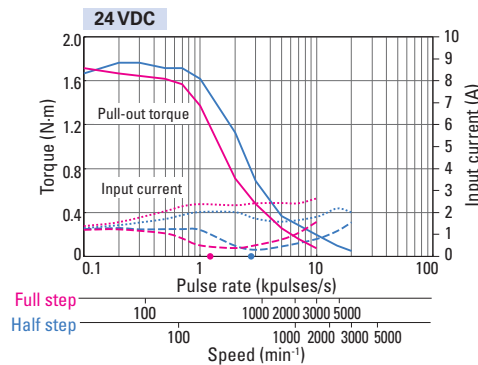
DU16M711S DU16M711D



DU16M712S DU16M712D



DU16M713S DU16M713D



Size	Motor size	56 mm sq. (1.8° full step angle)
	Motor length	85.8 mm
Single shaft	Set order no.	DU16M714S
	Motor model no.	SM2564C20U41
Dual shaft	Set order no.	DU16M714D
	Motor model no.	SM2564C20U11
Holding torque	N·m	1.75
Rotor inertia	$\times 10^{-4}$ kg·m ²	0.6
Rated current	A/phase	2
Motor mass ⁽¹⁾	kg	1.27
Allowable thrust load	N	20
Allowable radial load ⁽²⁾	N	86

(1) For the driver mass, see ▶ p. 26

(2) Load is exerted to the shaft end.

Characteristics

With rubber coupling used

Pull-out torque Full step — Half step — fs: Maximum starting pulse rate with no load Full step ● Half step ●
 Input current (with no load) Full step - - - Half step - - - Input current (with load) Full step Half step

DU16M714S
DU16M714D

