

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.	DB14S281S	DB14S285S	DB14S421S	DB14S422S
	Motor model no.	SH2281-5771	SH2285-5771	SF2421-10B41	SF2422-10B41
Dual shaft	Set order no.	DB14S281D	DB14S285D	DB14S421D	DB14S422D
	Motor model no.	SH2281-5731	SH2285-5731	SF2421-10B11	SF2422-10B11
Holding torque		N·m		0.29	
Rotor inertia		$\times 10^{-4}$ kg·m ²		0.43	
Rated current		A/phase		0.07	
Motor mass ⁽¹⁾		kg		0.145	
Allowable thrust load		N		0.23	
Allowable radial load ⁽²⁾		N		0.3	
				10	
				38	
				34	

(1) For the driver mass, see ▶ p. 26

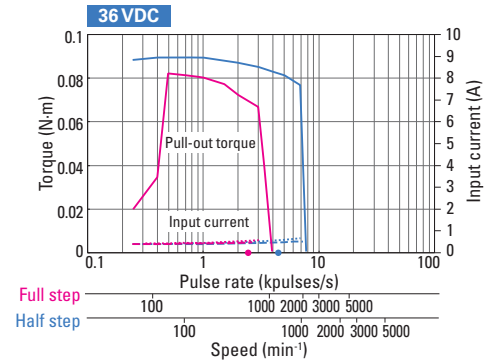
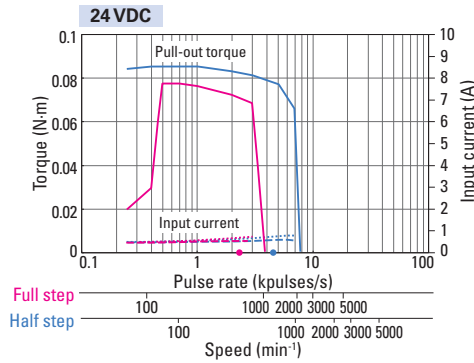
(2) Load is exerted to the shaft end.

Characteristics

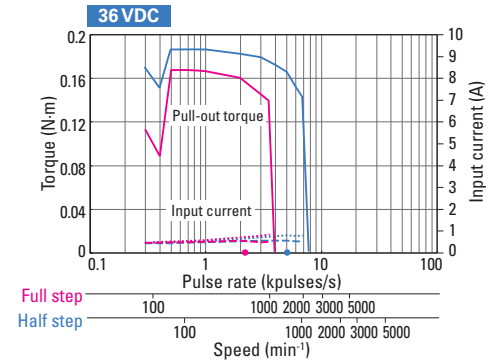
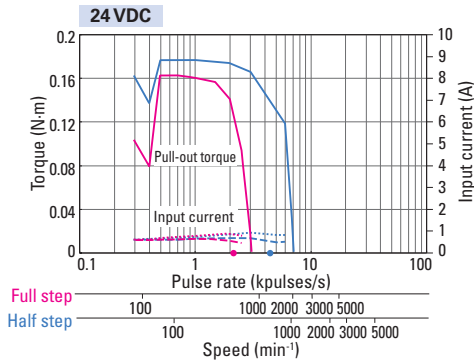
With rubber coupling used

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 ·····

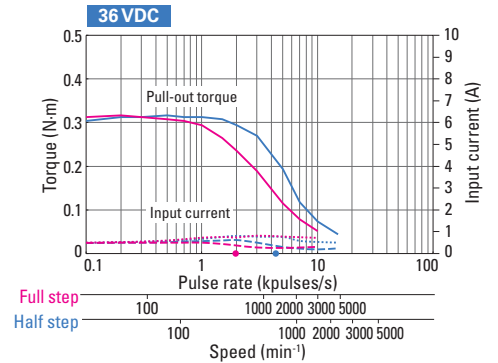
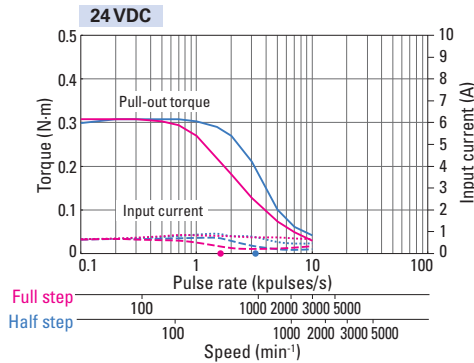
DB14S281S
DB14S281D



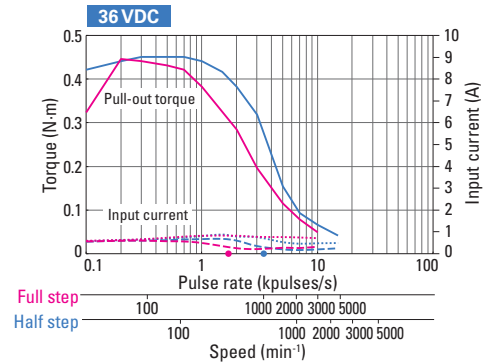
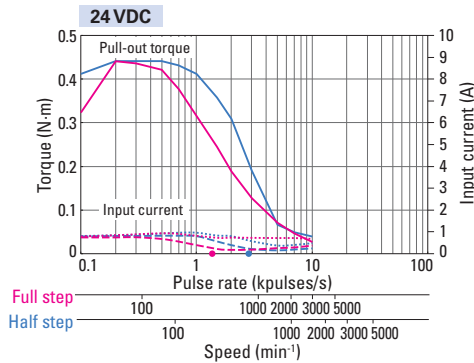
DB14S285S
DB14S285D



DB14S421S
DB14S421D



DB14S422S
DB14S422D



Size	Motor size	42 mm sq. (1.8° full step angle)		42 mm sq. (0.9° full step angle)	
		48 mm	59.5 mm	33 mm	39 mm
Single shaft	Motor length				
	Set order no.	DB14S423S	DB14S424S	DB16S141S	DB16S142S
Dual shaft	Motor model no.	SF2423-10B41	SF2424-10B41	SH1421-5241	SH1422-5241
	Set order no.	DB14S423D	DB14S424D	DB16S141D	DB16S142D
Holding torque	Motor model no.	SF2423-10B11	SF2424-10B11	SH1421-5211	SH1422-5211
	N·m	0.56	0.8	0.23	0.34
Rated current	$\times 10^{-3}$ kg·m ²	0.063	0.094	0.044	0.066
Motor mass ⁽¹⁾	A/phase	1	1	2	2
Allowable thrust load	kg	0.38	0.51	0.24	0.29
Allowable radial load ⁽²⁾	N	10	10	10	10
	N	30	20	25	24

(1) For the driver mass, see ▶ p. 26

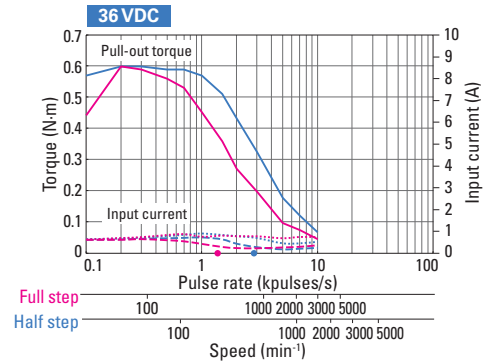
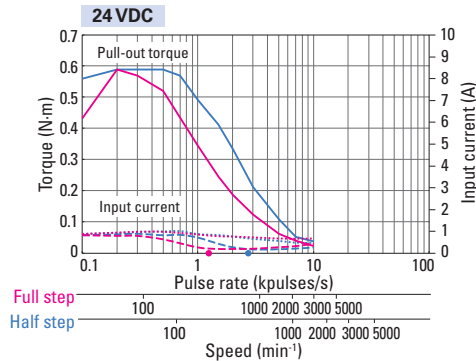
(2) Load is exerted to the shaft end.

Characteristics

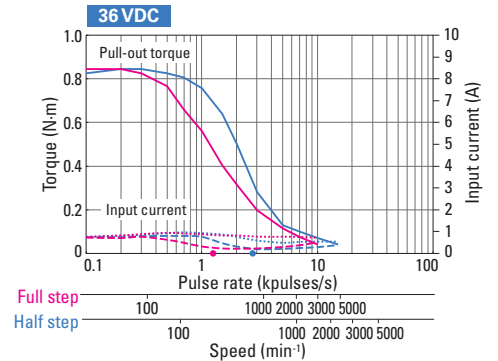
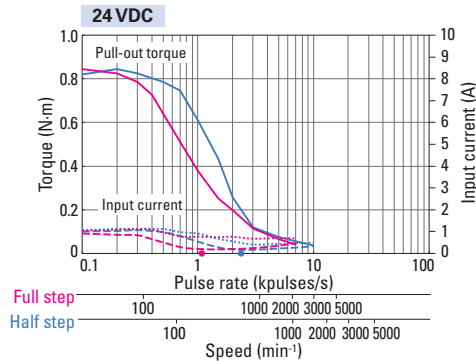
With rubber coupling used

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 ·····

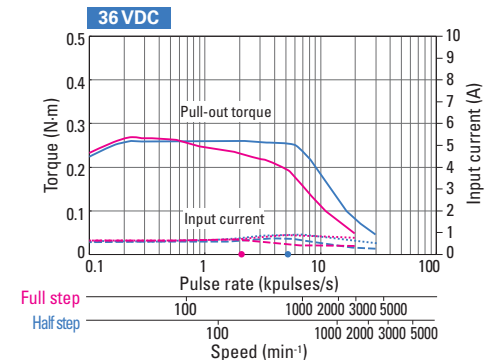
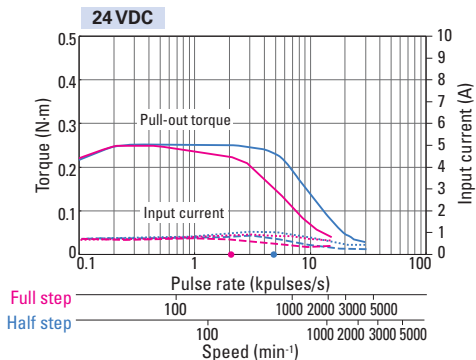
DB14S423S DB14S423D



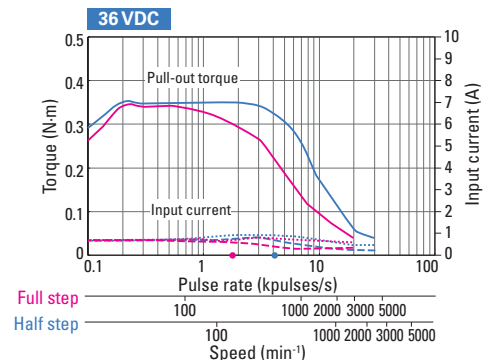
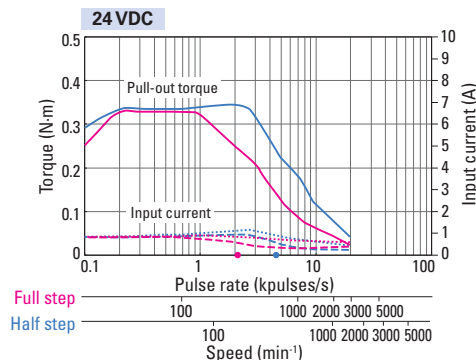
DB14S424S DB14S424D



DB16S141S DB16S141D



DB16S142S DB16S142D



Size	Motor size	42 mm sq. (0.9° full step angle)	50 mm sq. (1.8° full step angle)		56 mm sq. (1.8° full step angle)	
	Motor length	48 mm	39.8 mm	51.3 mm	41.8 mm	
Single shaft	Set order no.	DB16S144S	DB16H671S	DB16H673S	DB16M711S	
	Motor model no.	SH1424-5241	103H6701-5040	103H6703-5040	SM2561C20B41	
Dual shaft	Set order no.	DB16S144D	DB16H671D	DB16H673D	DB16M711D	
	Motor model no.	SH1424-5211	103H6701-5010	103H6703-5010	SM2561C20B11	
Holding torque		N·m	0.48	0.28	0.49	0.75
Rotor inertia		$\times 10^{-4}$ kg·m ²	0.089	0.057	0.118	0.14
Rated current		A/phase	2	2	2	2
Motor mass ⁽¹⁾		kg	0.38	0.35	0.5	0.49
Allowable thrust load		N	10	15	15	20
Allowable radial load ⁽²⁾		N	20	79	75	113

(1) For the driver mass, see ▶ p. 26

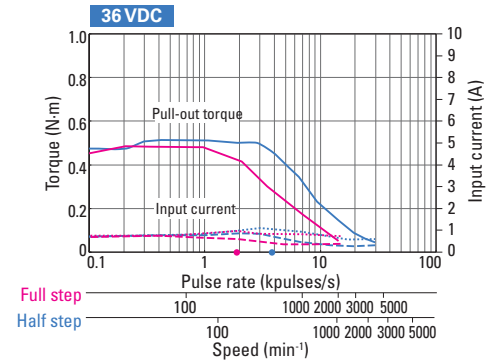
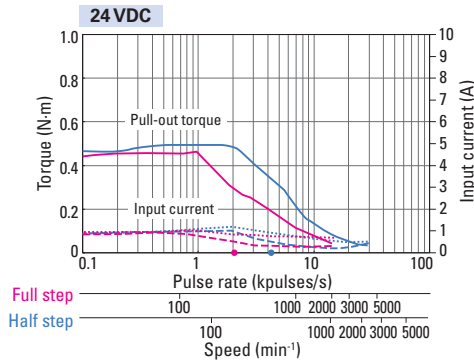
(2) Load is exerted to the shaft end.

Characteristics

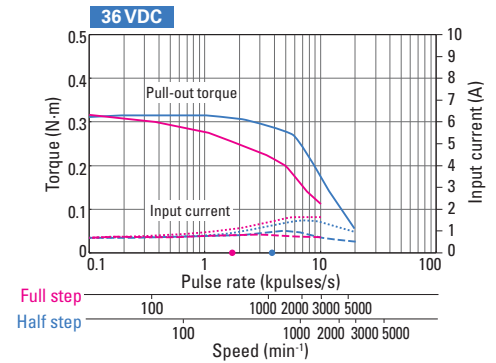
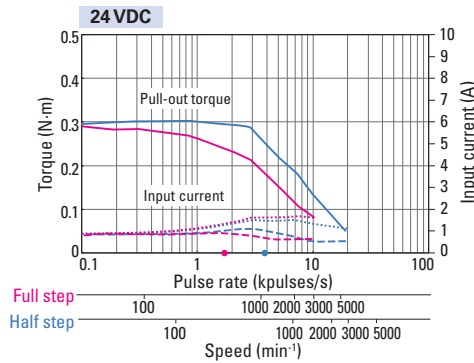
With rubber coupling used

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 ·····

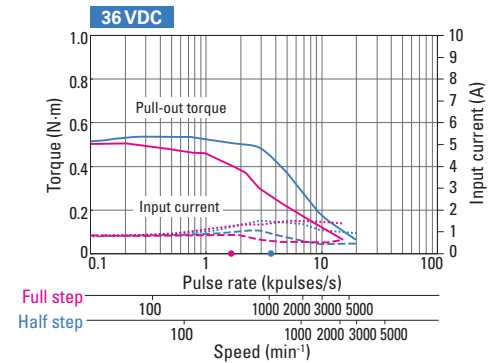
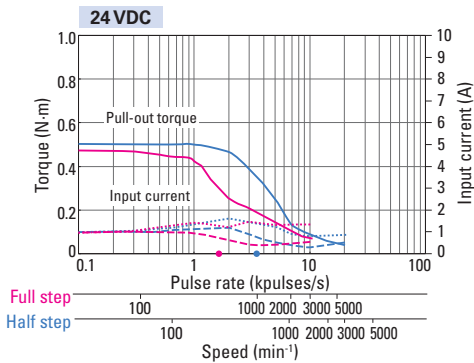
**DB16S144S
DB16S144D**



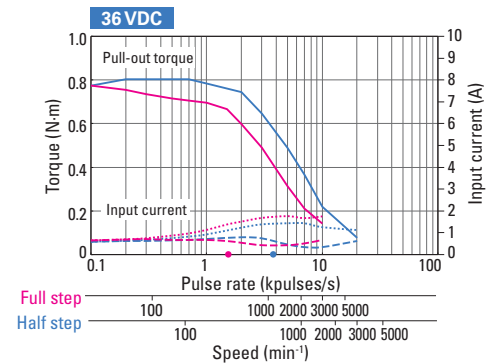
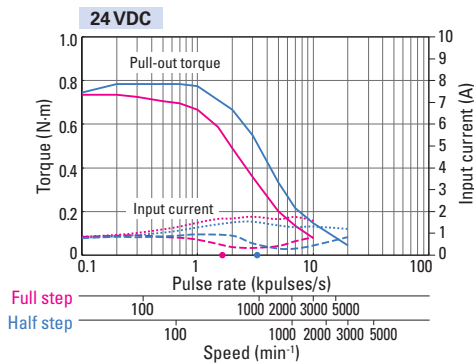
**DB16H671S
DB16H671D**



**DB16H673S
DB16H673D**



**DB16M711S
DB16M711D**



Size	Motor size	56 mm sq. (1.8° full step angle)			60 mm sq. (0.9° full step angle)	
	Motor length	53.8 mm	75.8 mm	85.8 mm	42 mm	
Single shaft	Set order no.	DB16M712S	DB16M713S	DB16M714S	DB16S161S	
	Motor model no.	SM2562C20B41	SM2563C20B41	SM2564C20B41	SH1601-5240	
Dual shaft	Set order no.	DB16M712D	DB16M713D	DB16M714D	DB16S161D	
	Motor model no.	SM2562C20B11	SM2563C20B11	SM2564C20B11	SH1601-5210	
Holding torque		N·m	1.4	2.35	2.5	0.69
Rotor inertia		$\times 10^{-4}$ kg·m ²	0.28	0.5	0.6	0.24
Rated current		A/phase	2	2	2	2
Motor mass ⁽¹⁾		kg	0.69	1.1	1.27	0.55
Allowable thrust load		N	20	20	20	15
Allowable radial load ⁽²⁾		N	102	78	70	78

(1) For the driver mass, see ▶ p. 26

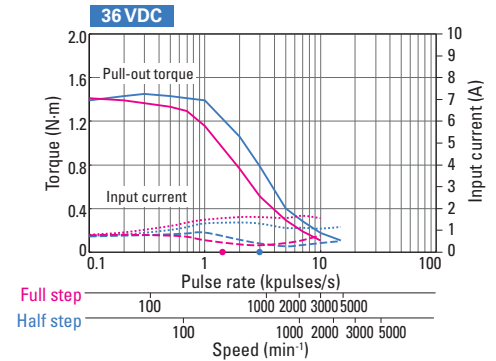
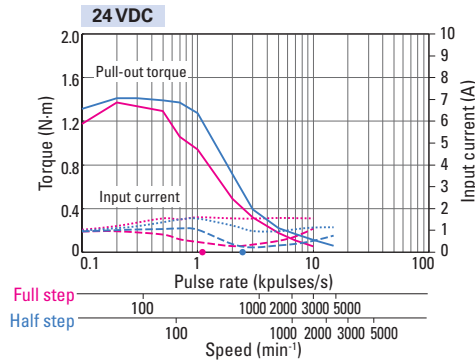
(2) Load is exerted to the shaft end.

Characteristics

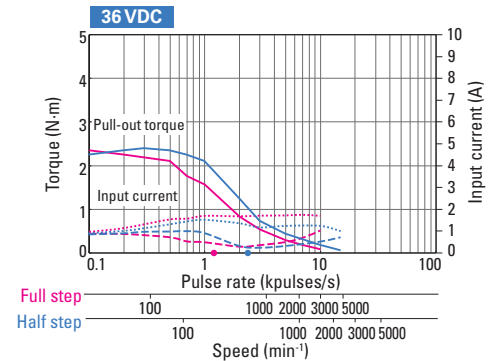
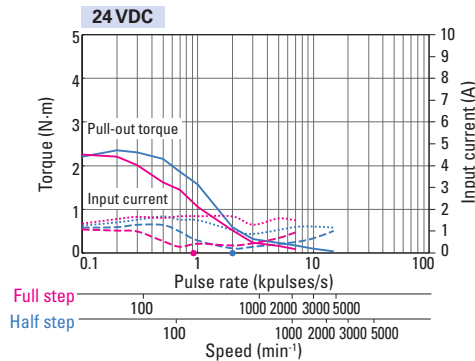
With rubber coupling used

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 ·····

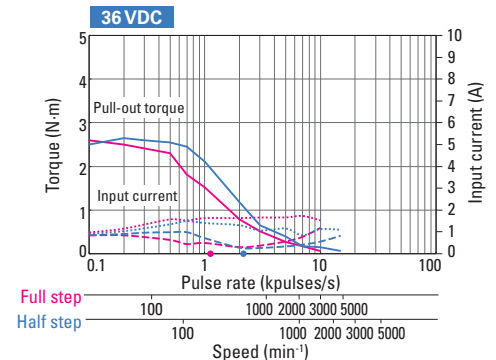
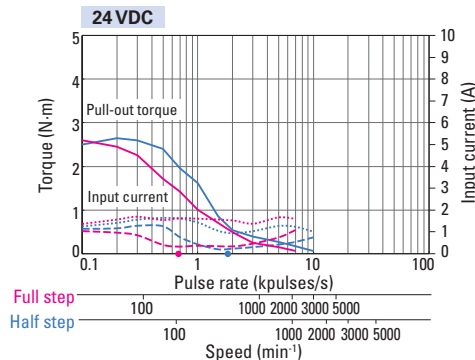
DB16M712S DB16M712D



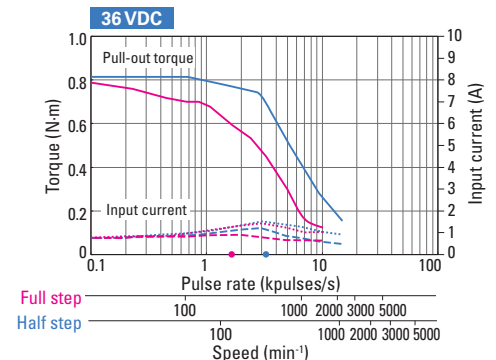
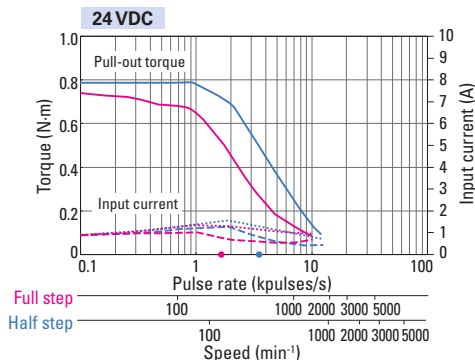
DB16M713S DB16M713D



DB16M714S DB16M714D



DB16S161S DB16S161D



Size	Motor size	60 mm sq. (0.9° full step angle)
	Motor length	54 mm
Single shaft	Set order no.	DB16S162S
	Motor model no.	SH1602-5240
Dual shaft	Set order no.	DB16S162D
	Motor model no.	SH1602-5210
Holding torque	N·m	1.28
Rotor inertia	$\times 10^{-4}$ kg·m ²	0.4
Rated current	A/phase	2
Motor mass ⁽¹⁾	kg	0.8
Allowable thrust load	N	15
Allowable radial load ⁽²⁾	N	65

(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 ·····

DB16S162S
DB16S162D

