The 5-phase Stepping Set

DP3 series
DC24V
Full-step/Half-step

(500 x 1 divisions)　(500 x 2 divisions)

Configuration of the 5-phase Stepping Motor Set, DP3 Series

Name	Quantity
DP3 Series Instruction Manual	1 pc.
PM Driver	1 pc.
Stepping Motor	1 pc.
Power Cable (CN1)	1 pc.
Input Cable (CN2)	1 pc.
Stepping Motor Cable (CN3)	1 pc.

Characteristics

- **Fast operation**
  This product is a fast operation version of the DP2 series.
- **Flexible**
  This stepping system is able to drive wide variety of stepping motors from small capacity to large capacity without adjustment, resulting in wide applications.
- **Compact**
  Mounting dedicated gate arrays realizes highly integrated and higher reliable system.

Built-in function

- **Excitation system selectable**
  Full-step or half-step can be selected through an external input signal.
- **Power down function**
  Stepping motor current can be turned off through an external input signal.

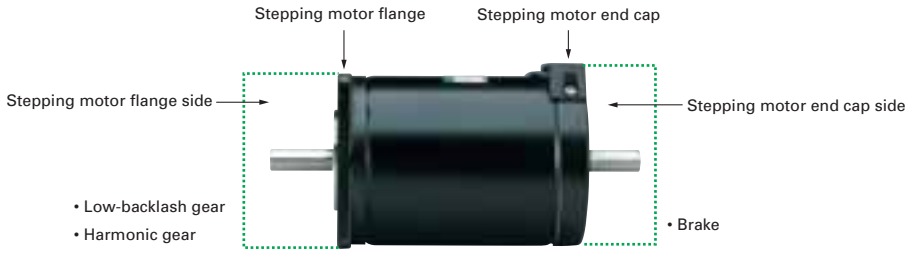
Explanation of set model number

① System on the stepping motor flange side

Code	Flange side	Deceleration ratio
C	Low-backlash gear	1 / 3.6, 1 / 7.2, 1 / 10, 1 / 20, 1 / 30, 1 / 36
H	Harmonic gear	1 / 50, 1 / 100
X	None	

② System on the stepping motor end cap side

Code	End cap side	Function
B	Brake	Electromagnetic brake
E	Encoder	Please contact us regarding the encoder
X	None	



③ Deceleration ratio of gear system
Example: deceleration ratio 1 / 3.6 → 3.6

Explanation for model number in the combined case
The set model number of the stepping motor is as follows when PMDP1S6P01 and 103F7853 type are combined and equipped with the system of harmonic gear (1/100) and brake:

DP33F783D—H B 100

- Standard set model number
- ③ Gear deceleration ratio (1/100)
- ② Brake
- ① Harmonic gear

How to order

Please use the "Set Model Number" in the List of Combined Stepping Motor Model Number for the 5-phase Stepping Set, DP3 Series.
To order gear, brake, and encoder, put the product code number after the set number according to the "Explanation of combination numbering" ①,②, and ③.

PM driver specifications

Model number			PMDPB1S6P01
Standard specification	Input source	For main power	DC24V±10%
	Source current	For main power	3.5A
	Environment: Operating ambient temperature		0 ~ +50˚C
	Environment: Conservation temperature		-20 ~ +70˚C
	Environment: Operating ambient humidity		35 ~ 85%RH (no condensation)
	Environment: Conservation humidity		10 ~ 90%RH (no condensation)
	Environment: Vibration resistance		0.5G Tested under the following conditions, frequency range: 10 to 55Hz, direction: along the X, Y, and Z axes, for 2 hours
	Environment: Impact resistance		Considering the NDS-C-0110 standard section 3.2.2 division "C", not influenced.
	Environment: Withstand voltage		Not influenced when applying AC500V between the power input terminal and cabinet for one minute.
	Environment: Insulation resistance		10MΩ MIN. when applying DC500V between the power input terminal and cabinet.
	Mass(Weight)		0.4kg(0.88 lbs)
Function	Select function		Pulse input system (option)
I/O signals	Command pulse input signal		Photo coupler input method, input resistance 330Ω Input signal voltage "H" level: 4.0 to 5.5V, "L" level: 0 to 0.5V Maximum input frequency 400 kpulse/s
	Power down input signal		Photo coupler input method, input resistance 330Ω Input signal voltage "H" level: 4.0 to 5.5V, "L" level: 0 to 0.5V
	Energization system selection input signal		Photo coupler input method, input resistance 330Ω Input signal voltage "H" level: 4.0 to 5.5V, "L" level: 0 to 0.5V

* For information about the operation, connection, function, and dimensions of the PM driver, refer to pages 217 and after.

Stepping motor common specifications

Item	Combined stepping motors of DP3 series
Insulation class	Class B (+130˚C)
Withstand voltage	Conditions: AC1000V, 50/60 Hz, and for one minute
Insulation resistance	100MΩ MIN. against DC500V
Vibration resistance	Conditions: amplitude 1.52 mm (P-P), frequency range 10 to 55 Hz, 5 minutes sweep time, along X, Y, and Z axes, for 2 hours
Impact resistance	Conditions: 98 m/s^2 acceleration, 11 minutes duration, half-wave/sine wave, three times each along X, Y, and Z axes, 18 times in total
Operating ambient temperature	-10 to +50˚C (0 to +40˚C with harmonic gears)
Operating ambient humidity	20~90%(no condensation)

Standard combined stepping motors for 5-phase stepping set "DP3" series

PM driver model number : PMDPB1S6P01

Combination Model Number for STEPSYN F Series

System support	Dimensions of stepping motor	Single shaft		Double shaft	
		Set model number	Standard combined stepping motor number	Set model number	Standard combined stepping motor number
Standard type	□ 60mm	**DP33F781S**	103F7851-8041	**DP33F781D**	103F7851-8011
		DP33F782S	103F7852-8041	**DP33F782D**	103F7852-8011
		DP33F783S	103F7853-8041	**DP33F783D**	103F7853-8011
	ø 86mm	**DP33F851S**	103F8581-8041	**DP33F851D**	103F8581-8011
		DP33F852S	103F8582-8041	**DP33F852D**	103F8582-8011
		DP33F853S	103F8583-8041	**DP33F853D**	103F8583-8011
Low-backlash gear	□ 60mm	**DP33F781S-CX3.6**	103F7851-80CXA4	**DP33F781D-CX3.6**	103F7851-80CXA1
		DP33F781S-CX7.2	103F7851-80CXB4	**DP33F781D-CX7.2**	103F7851-80CXB1
		DP33F781S-CX10	103F7851-80CXE4	**DP33F781D-CX10**	103F7851-80CXE1
		DP33F781S-CX20	103F7851-80CXG4	**DP33F781D-CX20**	103F7851-80CXG1
		DP33F781S-CX30	103F7851-80CXJ4	**DP33F781D-CX30**	103F7851-80CXJ1
		DP33F781S-CX36	103F7851-80CXK4	**DP33F781D-CX36**	103F7851-80CXK1
	ø 86mm	**DP33F851S-CX3.6**	103F8581-80CXA4	**DP33F851D-CX3.6**	103F8581-80CXA1
		DP33F851S-CX7.2	103F8581-80CXB4	**DP33F851D-CX7.2**	103F8581-80CXB1
		DP33F851S-CX10	103F8581-80CXE4	**DP33F851D-CX10**	103F8581-80CXE1
		DP33F851S-CX20	103F8581-80CXG4	**DP33F851D-CX20**	103F8581-80CXG1
		DP33F851S-CX30	103F8581-80CXJ4	**DP33F851D-CX30**	103F8581-80CXJ1
		DP33F851S-CX36	103F8581-80CXK4	**DP33F851D-CX36**	103F8581-80CXK1
Harmonic gear	□ 60mm	**DP33F781S-HX50**	103F7851-80HXL4	**DP33F781D-HX50**	103F7851-80HXL1
		DP33F781S-HX100	103F7851-80HXM4	**DP33F781D-HX100**	103F7851-80HXM1
	ø 86mm	**DP33F851S-HX50**	103F8581-80HXL4	**DP33F851D-HX50**	103F8581-80HXL1
		DP33F851S-HX100	103F8581-80HXM4	**DP33F851D-HX100**	103F8581-80HXM1
Electromagnetic brake	□ 60mm	**DP33F781S-XB**	103F7851-80XB41		
		DP33F782S-XB	103F7852-80XB41		
		DP33F783S-XB	103F7853-80XB41		
	ø 86mm	**DP33F851S-XB**	103F8581-80XB41		
		DP33F852S-XB	103F8582-80XB41		
		DP33F853S-XB	103F8583-80XB41		

Stepping motor data sheet

STEPSYN F Series (Standard)

Set model number	Single shaft	DP33F781S	DP33F782S	DP33F783S
	Double shaft	DP33F781D	DP33F782D	DP33F783D
Holding torque	N·m(oz·in)	0.6(85.0)	0.93(131.7)	1.79(253.5)
Rotor inertia	$\times10^{-4}$kg·m²(oz·in²)	0.275(1.50)	0.4(2.19)	0.84(4.59)
Mass(Weight)	kg(lbs)	0.6(1.32)	0.78(1.72)	1.36(3.00)

Set model number	Single shaft	DP33F851S	DP33F852S	DP33F853S
	Double shaft	DP33F851D	DP33F852D	DP33F853D
Holding torque	N·m(oz·in)	2.06(291.7)	4.02(569.3)	6.17(873.7)
Rotor inertia	$\times10^{-4}$kg·m²(oz·in²)	1.45(7.93)	2.9(15.86)	4.4(24.06)
Mass(Weight)	kg(lbs)	1.5(3.31)	2.5(5.51)	3.5(7.72)

STEPSYN F Series (With low-backlash gear)

Set model number	Single shaft	DP33F781S-CX3.6	DP33F781S-CX7.2	DP33F781S-CX10	DP33F781S-CX20	DP33F781S-CX30	DP33F781S-CX36
	Double shaft	DP33F781D-CX3.6	DP33F781D-CX7.2	DP33F781D-CX10	DP33F781D-CX20	DP33F781D-CX30	DP33F781D-CX36
Allowable torque	N·m(oz·in)	1.25(177.0)	2.5(354.0)	3(424.8)	3.5(495.6)	4(566.4)	4(566.4)
Rotor inertia	$\times10^{-4}$kg·m²(oz·in²)	0.275(1.50)					
Basic step angle	°	0.2	0.1	0.072	0.036	0.024	0.02
Deceleration ratio		1 : 3.6	1 : 7.2	1 : 10	1 : 20	1 : 30	1 : 36
Backlash	°	0.55	0.25	0.25	0.17	0.17	0.17
Allowable number of rotations	min^{-1}	500	250	180	90	60	50
Mass(Weight)	kg(lbs)	0.97(2.14)					
Allowable thrust load	N	30					
Allowable radial load (Note1)	N	100					

* The rotation direction of the motor and the gear output shaft is as follows: when deceleration ratio is 1:3.6 or 1:7.2, both motor and shaft rotate in the same direction, and for 1:10, 1:20, or 1:30 type, the motor and the shaft rotate in opposite direction.

(Note1) When load is applied at 1/3 length from output shaft edge.

Set model number	Single shaft	DP33F851S-CX3.6	DP33F851S-CX7.2	DP33F851S-CX10	DP33F851S-CX20	DP33F851S-CX30	DP33F851S-CX36
	Double shaft	DP33F851D-CX3.6	DP33F851D-CX7.2	DP33F851D-CX10	DP33F851D-CX20	DP33F851D-CX30	DP33F851D-CX36
Allowable torque	N·m(oz·in)	4.5(637.2)	9(1274.5)	9(1274.5)	12(1699.3)	12(1699.3)	12(1699.3)
Rotor inertia	$\times10^{-4}$kg·m²(oz·in²)	1.45(7.93)					
Basic step angle	°	0.2	0.1	0.072	0.036	0.024	0.02
Deceleration ratio		1 : 3.6	1 : 7.2	1 : 10	1 : 20	1 : 30	1 : 36
Backlash	°	0.4	0.25	0.25	0.17	0.17	0.15
Allowable number of rotations	min^{-1}	500	250	180	90	60	50
Mass(Weight)	kg(lbs)	2.7(5.95)					
Allowable thrust load	N	60					
Allowable radial load (Note1)	N	300					

* The rotation direction of the motor and the gear output shaft is as follows: when deceleration ratio is 1:3.6 or 1:7.2, both motor and shaft rotate in the same direction, and for 1:10, 1:20, or 1:30 type, the motor and the shaft rotate in opposite direction.

(Note1) When load is applied at 1/3 length from output shaft edge.

Stepping motor data sheet

STEPSYN F Series (With harmonic gear)

Set model number	Single shaft	DP33F781S-HX50	DP33F781S-HX100
	Double shaft	DP33F781D-HX50	DP33F781D-HX100
Allowable torque	N·m(oz·in)	5.5(778.8)	8(1132.9)
Rotor inertia	x10⁻⁴kg·m²(oz·in²)	0.31(1.69)	
Basic step angle	°	0.0144	0.0072
Deceleration ratio		1 : 50	1 : 100
Lost motion	Minute	0.4~3 (±0.28 N·m)(±39.65 oz·in)	0.4~1.5 (± 0.4N·m)(±56.64 oz·in)
Allowable number of rotations	min⁻¹	70	35
Mass(Weight)	kg(lbs)	1.2(2.65)	
Allowable thrust load	N	400	
Allowable radial load (Note1)	N	400	

* The gear output shaft rotates in the opposite direction of the motor.
(Note1) When load is applied at 1/3 length from output shaft edge.

Set model number	Single shaft	DP33F851S-HX50	DP33F851S-HX100
	Double shaft	DP33F851D-HX50	DP33F851D-HX100
Allowable torque	N·m(oz·in)	25(3540.2)	41(5805.9)
Rotor inertia	x10⁻⁴kg·m²(oz·in²)	1.65(9.02)	
Basic step angle	°	0.0144	0.0072
Deceleration ratio		1 : 50	1 : 100
Lost motion	Minute	0.4~3 (±0.28 N·m)(±39.65 oz·in)	0.4~3 (±0.28 N·m)(±56.64 oz·in)
Allowable number of rotations	min⁻¹	500	250
Mass(Weight)	kg(lbs)	3.3(7.28)	
Allowable thrust load	N	1400	
Allowable radial load (Note1)	N	1400	

* The gear output shaft rotates in the opposite direction of the motor.
(Note1) When load is applied at 1/3 length from output shaft edge.

STEPSYN F Series (With electromagnetic brake)

Set model number		Single shaft	DP33F781S-XB	DP33F782S-XB	DP33F783S-XB
		Double shaft	————	————	————
Holding torque		N·m(oz·in)	0.6(85.0)	0.93(131.7)	1.79(253.5)
Rotor inertia		x10⁻⁴kg·m²(oz·in²)	0.43(2.35)	0.56(3.06)	1(5.47)
Mass(Weight)		kg(lbs)	0.94(2.07)	1.12(2.47)	1.7(3.75)
Electromagnetic brake specification	Brake operation system		Non-excitation operation system		
	Source voltage	V	DC 24 ± 5%		
	Exciting current	A	0.25		
	Electric power consumption	W	6		
	Static friction torque	N·m(oz·in)	0.8(113.3)		
	Brake operating time	ms	30		
	Brake release time	ms	20		
	Polarity		Red:⊕,Black:⊖		

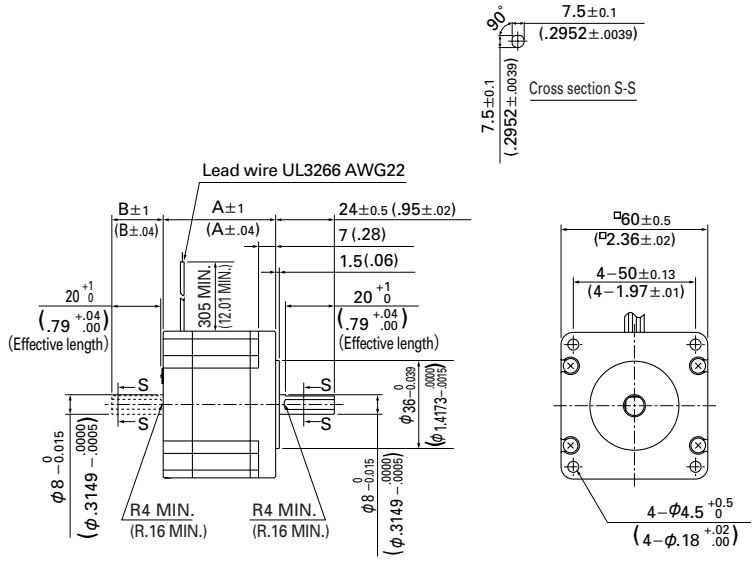
Set model number		Single shaft	DP33F851S-XB	DP33F852S-XB	DP33F853S-XB
		Double shaft	————	————	————
Holding torque		N·m(oz·in)	2.06(291.7)	4.02(569.3)	6.17(873.7)
Rotor inertia		x10⁻⁴kg·m²(oz·in²)	2.24(12.25)	3.69(20.17)	5.19(28.38)
Mass(Weight)		kg(lbs)	3.5(7.72)	4.5(9.92)	5.5(12.13)
Electromagnetic brake specification	Brake operation system		Non-excitation operation system		
	Source voltage	V	DC 24 ± 5%		
	Exciting current	A	0.42		
	Electric power consumption	W	10		
	Static friction torque	N·m(oz·in)	7(991.2)		
	Brake operating time	ms	50		
	Brake release time	ms	20		
	Polarity		Red:⊕,Black:⊖		

Dimensions [Unit: mm (inch)]

STEPSYN F

DP33F78□□

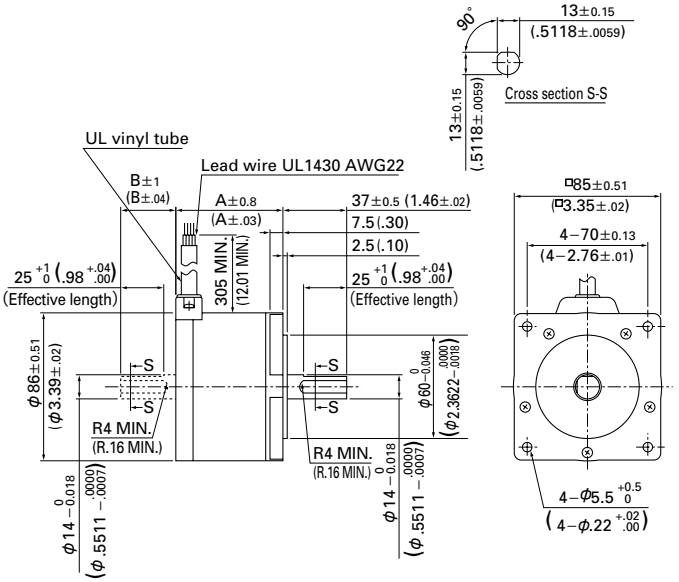
103F785□-80□□



Model name	A	B
DP33F781S (103F7851-8041)	46.5 (1.83)	—
DP33F781D (103F7851-8011)	46.5 (1.83)	21 (.83)
DP33F782S (103F7852-8041)	55 (2.17)	—
DP33F782D (103F7852-8011)	55 (2.17)	21 (.83)
DP33F783S (103F7853-8041)	87.5 (3.44)	—
DP33F783D (103F7853-8011)	87.5 (3.44)	21 (.83)

DP33F85□□

103F858□-80□□



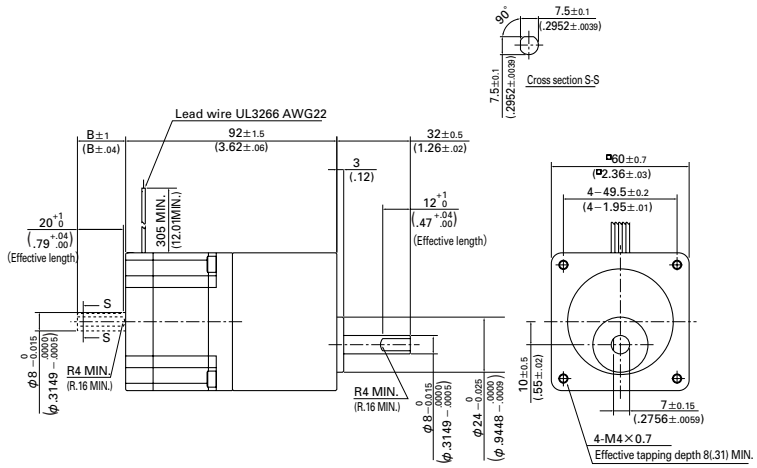
Model name	A	B
DP33F851S (103F8581-8041)	62.15 (2.45)	—
DP33F851D (103F8581-8011)	62.15 (2.45)	32 (1.26)
DP33F852S (103F8582-8041)	92.2 (3.63)	—
DP33F852D (103F8582-8011)	92.2 (3.63)	32 (1.26)
DP33F853S (103F8583-8041)	125.85 (4.95)	—
DP33F853D (103F8583-8011)	125.85 (4.95)	32 (1.26)

Dimensions [Unit: mm (inch)]

STEPSYN F with low-backlash gear

DP33F781□-CX□□

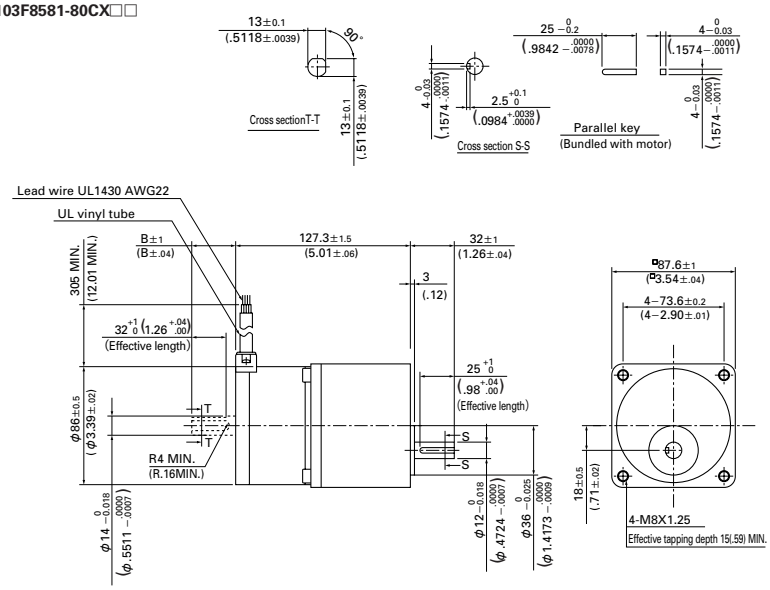
103F7851-80CX□□



Model name	B
DP33F781S-CX3.6 (103F7851-80CXA4)	—
DP33F781D-CX3.6 (103F7851-80CXA1)	21 (.83)
DP33F781S-CX7.2 (103F7851-80CXB4)	—
DP33F781D-CX7.2 (103F7851-80CXB1)	21 (.83)
DP33F781S-CX10 (103F7851-80CXE4)	—
DP33F781D-CX10 (103F7851-80CXE1)	21 (.83)
DP33F781S-CX20 (103F7851-80CXG4)	—
DP33F781D-CX20 (103F7851-80CXG1)	21 (.83)
DP33F781S-CX30 (103F7851-80CXJ4)	—
DP33F781D-CX30 (103F7851-80CXJ1)	21 (.83)
DP33F781S-CX36 (103F7851-80CXK4)	—
DP33F781D-CX36 (103F7851-80CXK1)	21 (.83)

DP33F851□-CX□□

103F8581-80CX□□

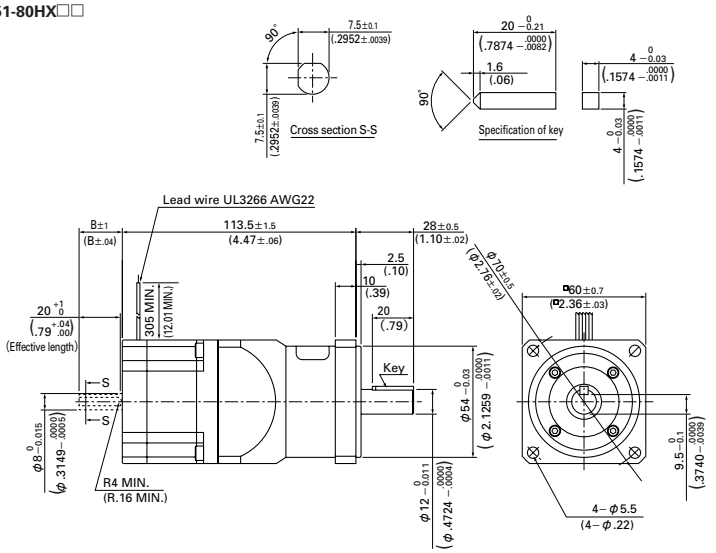


Model name	B
DP33F851S-CX3.6 (103F8581-80CXA4)	—
DP33F851D-CX3.6 (103F8581-80CXA1)	32 (1.26)
DP33F851S-CX7.2 (103F8581-80CXB4)	—
DP33F851D-CX7.2 (103F8581-80CXB1)	32 (1.26)
DP33F851S-CX10 (103F8581-80CXE4)	—
DP33F851D-CX10 (103F8581-80CXE1)	32 (1.26)
DP33F851S-CX20 (103F8581-80CXG4)	—
DP33F851D-CX20 (103F8581-80CXG1)	32 (1.26)
DP33F851S-CX30 (103F8581-80CXJ4)	—
DP33F851D-CX30 (103F8581-80CXJ1)	32 (1.26)
DP33F851S-CX36 (103F8581-80CXK4)	—
DP33F851D-CX36 (103F8581-80CXK1)	32 (1.26)

STEPSYN F with harmonic gear

DP33F781□-HX□□

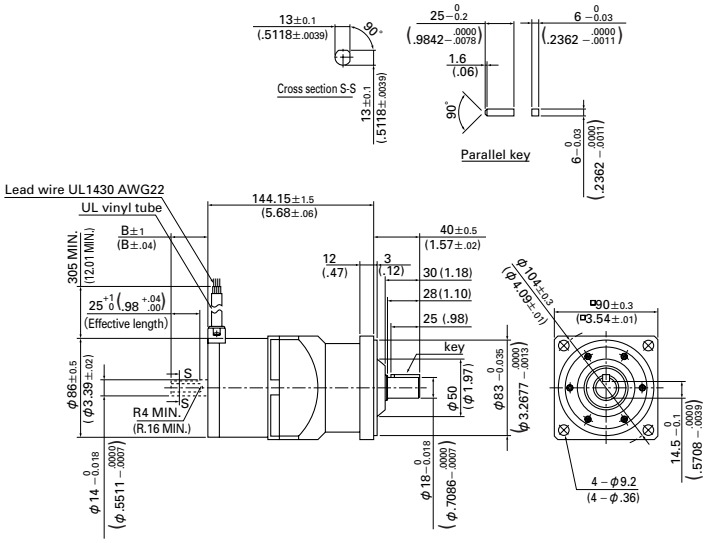
103F7851-80HX□□



Model name	B
DP33F781S-HX50 (103F7851-80HXL4)	—
DP33F781D-HX50 (103F7851-80HXL1)	21 (.83)
DP33F781S-HX100 (103F7851-80HXM4)	—
DP33F781D-HX100 (103F7851-80HXM1)	21 (.83)

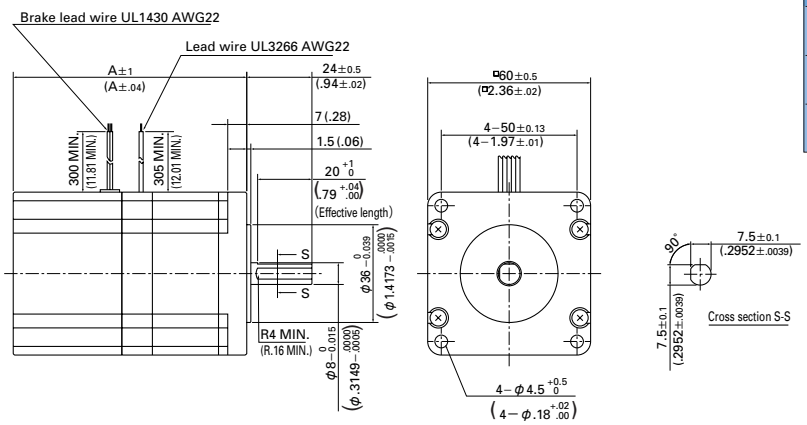
Dimensions [Unit: mm (inch)]

STEPSYN F with harmonic gear
DP33F851□-HX□□
103F8581-80HX□□



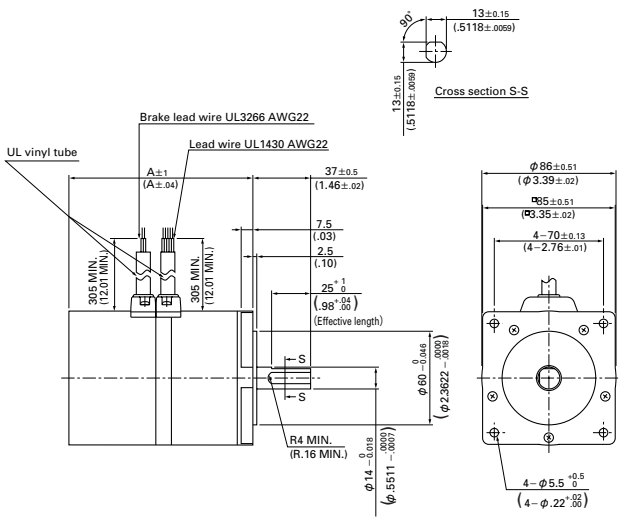
Model name	B
DP33F851S-HX50 (103F8581-80HXL4)	—
DP33F851D-HX50 (103F8581-80HXL1)	32 (1.26)
DP33F851S-HX100 (103F8581-80HXM4)	—
DP33F851D-HX100 (103F8581-80HXM1)	32 (1.26)

STEPSYN F with electromagnetic brake
DP33F78□S-XB
103F785□-80XB41



Model name	A
DP33F781S-XB (103F7851-80XB41)	85.8 (3.38)
DP33F782S-XB (103F7852-80XB41)	94.5 (3.72)
DP33F783S-XB (103F7853-80XB41)	126.7 (4.99)

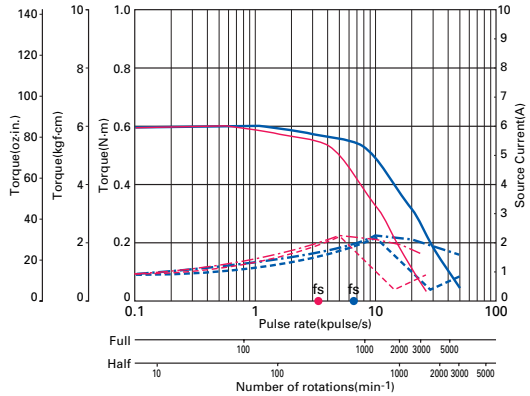
DP33F85□S-XB
103F858□-80XB41



Model name	A
DP33F851S-XB (103F8581-80XB41)	116.7 (4.59)
DP33F852S-XB (103F8582-80XB41)	146.8 (5.78)
DP33F853S-XB (103F8583-80XB41)	180.4 (7.10)

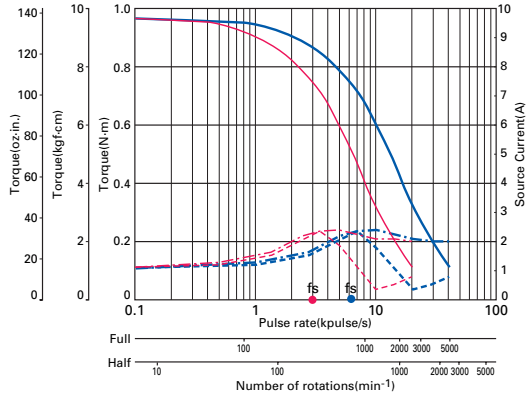
Pulse Rate-Torque Characteristics/Pulse Rate-Source Current Characteristics

● DP33F781□ / DP33F781S-XB : 24V



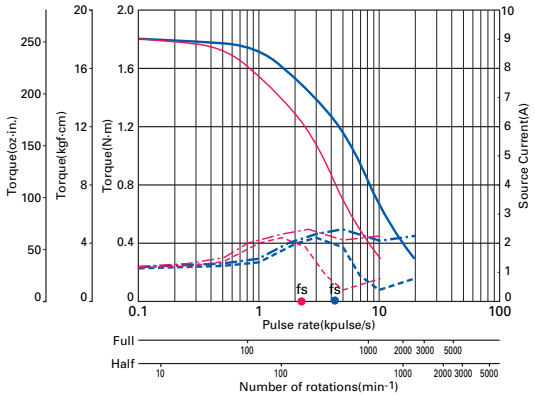
103F7851-80□□/103F7851-80XB41
Source voltage : DC24V·Operating current : 1.5A/phase
—— Pull-out torque(J_{L1}=0.94×10^{-4}kg·m^2 [5.14 oz·in^2] Use the rubber coupling)
– · – Source current(T_L=MAX) – – – Source current(T_L=0)
fs : No load maximum starting pluse rate
■ Full-step ■ Half-step

● DP33F782□ / DP33F782S-XB : 24V



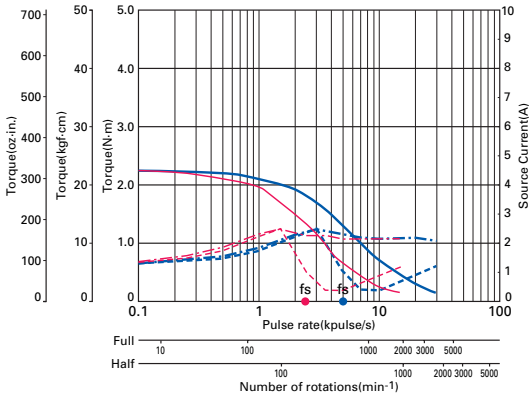
103F7852-80□□/103F7852-80XB41
Source voltage : DC24V·Operating current : 1.5A/phase
—— Pull-out torque(J_{L1}=2.6×10^{-4}kg·m^2 [14.22 oz·in^2] Use the rubber coupling)
– · – Source current(T_L=MAX) – – – Source current(T_L=0)
fs : No load maximum starting pluse rate
■ Full-step ■ Half-step

● DP33F783□ / DP33F783S-XB : 24V



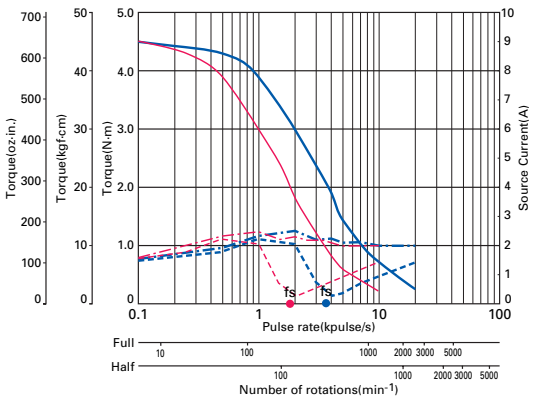
103F7853-80□□/103F7853-80XB41
Source voltage : DC24V·Operating current : 1.5A/phase
—— Pull-out torque(J_{L1}=7.4×10^{-4}kg·m^2[40.46 oz·in^2]Use the rubber coupling)
– · – Source current(T_L=MAX) – – – Source current(T_L=0)
fs : No load maximum starting pluse rate
■ Full-step ■ Half-step

● DP33F851□ / DP33F851S-XB : 24V



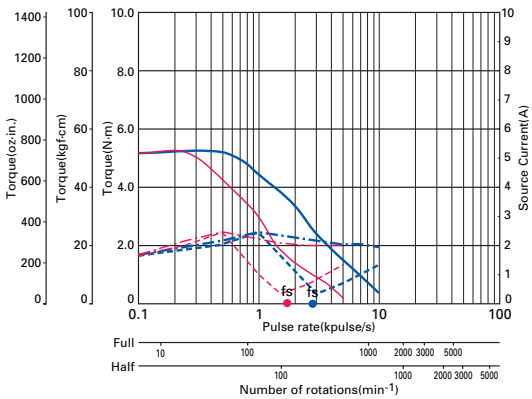
103F8581-80□□/103F8581-80XB41
Source voltage : DC24V·Operating current : 1.5A/phase
——Pull-out torque(J_{L1}=7.4×10^{-4}kg·m^2[40.46 oz·in^2]Use the rubber coupling)
– · – Source current(T_L=MAX) – – – Source current(T_L=0)
fs : No load maximum starting pluse rate
■ Full-step ■ Half-step

● DP33F852□ / DP33F852S-XB : 24V



103F8582-80□□/103F8582-80XB41
Source voltage : DC24V·Operating current : 1.5A/phase
—— Pull-out torque(J_{L1}=15.3×10^{-4}kg·m^2 [83.65 oz·in^2] Use the rubber coupling)
– · – Source current(T_L=MAX) – – – Source current(T_L=0)
fs : No load maximum starting pluse rate
■ Full-step ■ Half-step

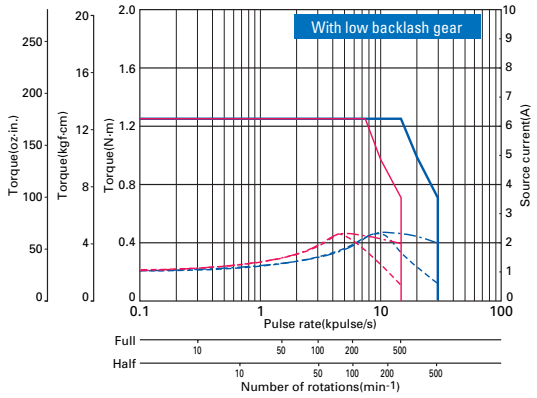
● DP33F853□ / DP33F853S-XB : 24V



103F8583-80□□/103F8583-80XB41
Source voltage : DC24V·Operating current : 1.5A/phase
—— Pull-out torque(J_{L1}=15.3×10^{-4}kg·m^2[83.65 oz·in^2]Use the rubber coupling)
– · – Source current(T_L=MAX) – – – Source current(T_L=0)
fs : No load maximum starting pluse rate
■ Full-step ■ Half-step

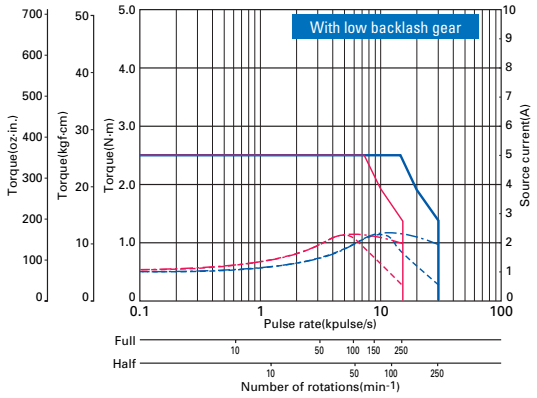
Pulse Rate-Torque Characteristics/Pulse Rate-Source Current Characteristics

● DP33F781□-CX3.6 : 24V



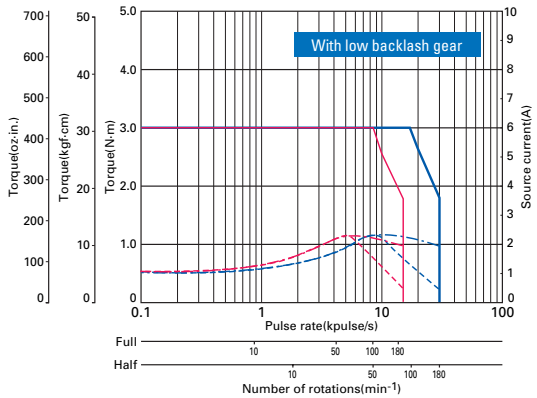
103F7851-80CXA□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=2.6×10^{-4}kg·m^2[14.22 oz·in^2]Use the rubber coupling)
–·– Source current(T_L=MAX) – – –Source current(T_L=0)
■ Full-step ■ Half-step

● DP33F781□-CX7.2 : 24V



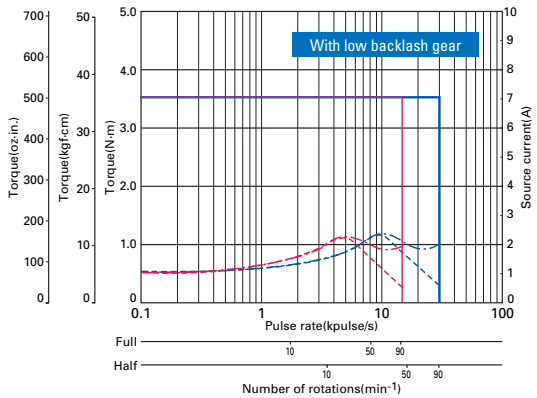
103F7851-80CXB□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=7.4×10^{-4}kg·m^2[40.46 oz·in^2]Use the rubber coupling)
–·– Source current(T_L=MAX) – – –Source current(T_L=0)
■ Full-step ■ Half-step

● DP33F781□-CX10 : 24V



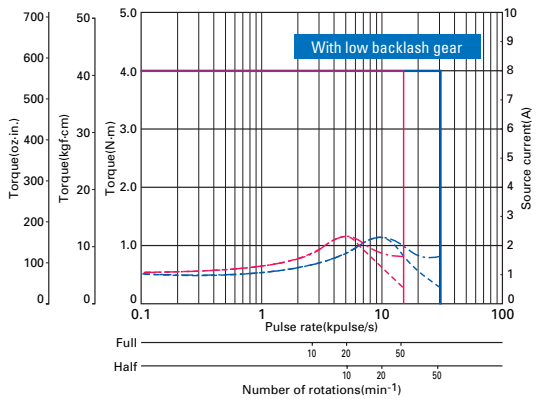
103F7851-80CXE□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=7.4×10^{-4}kg·m^2 [40.46 oz·in^2] Use the rubber coupling)
–·– Source current(T_L=MAX) – – –Source current(T_L=0)
■ Full-step ■ Half-step

● DP33F781□-CX20 : 24V



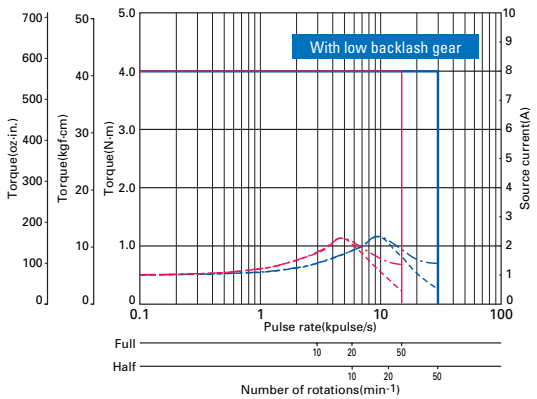
103F7851-80CXG□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=15.3×10^{-4}kg·m^2 [83.65 oz·in^2] Use the rubber coupling)
–·– Source current(T_L=MAX) – – –Source current(T_L=0)
■ Full-step ■ Half-step

● DP33F781□-CX30 : 24V



103F7851-80CXJ□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=15.3×10^{-4}kg·m^2 [83.65 oz·in^2] Use therubber coupling)
–·– Source current(T_L=MAX) – – –Source current(T_L=0)
■ Full-step ■ Half-step

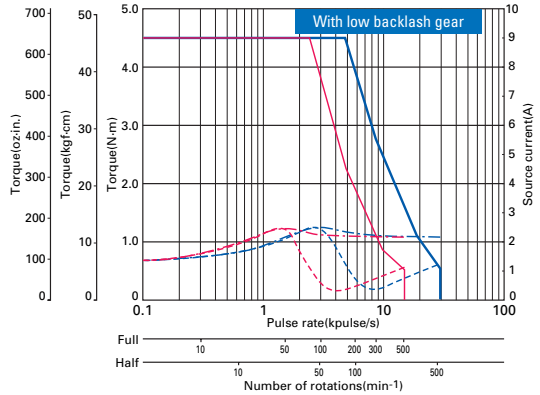
● DP33F781□-CX36 : 24V



103F7851-80CXBK□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=15.3×10^{-4}kg·m^2[83.65 oz·in^2] Use the rubber coupling)
–·– Source current(T_L=MAX) – – – Source current(T_L=0)
■ Full-step ■ Half-step

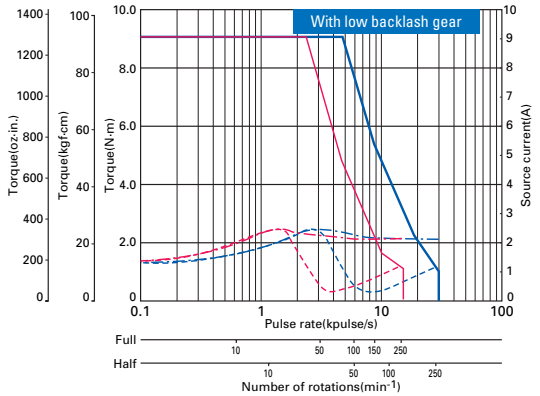
Pulse Rate-Torque Characteristics/Pulse Rate-Source Current Characteristics

● DP33F851□-CX3.6 : 24V



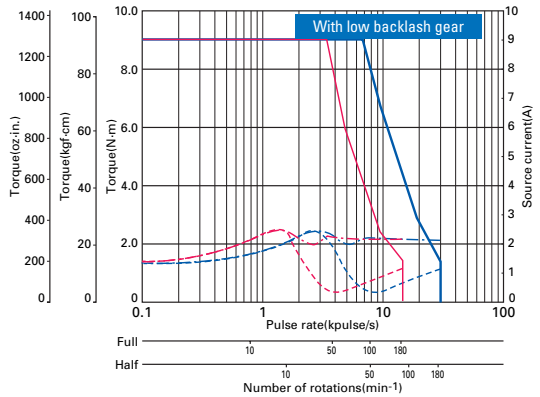
103F8581-80CXA□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=15.3×10^{-4}kg·m^2 [83.65 oz·in^2] Use the rubber coupling)
– · – Source current(T_L=MAX) – – –Source current(T_L=0)
■ Full-step ■ Half-step

● DP33F851□-CX7.2 : 24V



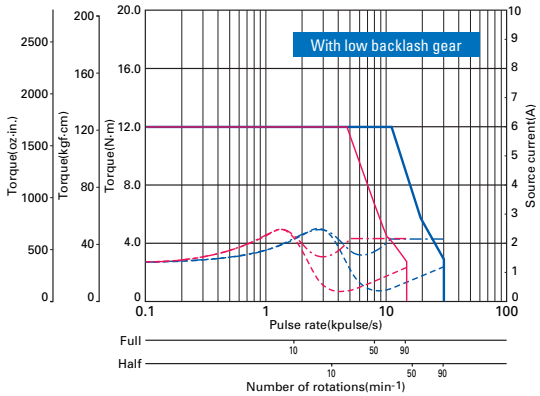
103F8581-80CXB□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
– · – Source current(T_L=MAX) – – –Source current(T_L=0)
■ Full-step ■ Half-step

● DP33F851□-CX10 : 24V



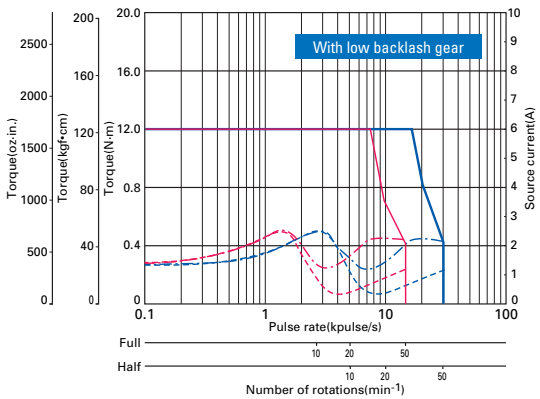
103F8581-80CXE□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
– · – Source current(T_L=MAX) – – – Source current(T_L=0)
■ Full-step ■ Half-step

● DP33F851□-CX20 : 24V



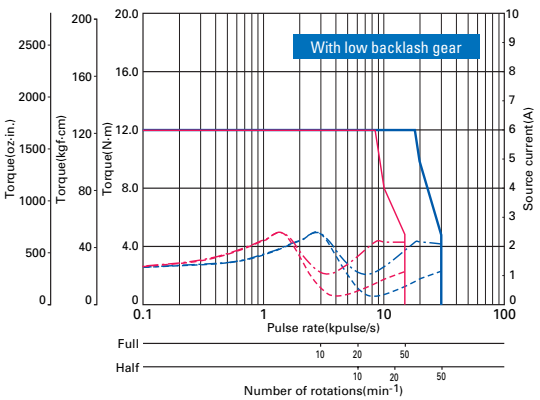
103F8581-80CXG□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
– · – Source current(T_L=MAX) – – –Source current(T_L=0)
■ Full-step ■ Half-step

● DP33F851□-CX30 : 24V



103F8581-80CXJ□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
– · – Source current(T_L=MAX) – – – Source current(T_L=0)
■ Full-step ■ Half-step

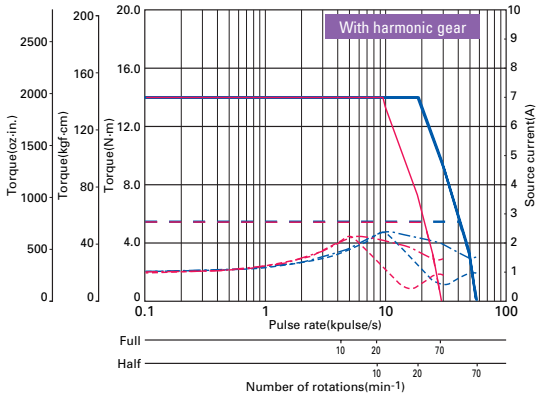
● DP33F851□-CX36 : 24V



103F8581-80CXK□
Source voltage : DC24V·Operating current : 1.5A/phase
—— Allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
– · – Source current(T_L=MAX) – – – Source current(T_L=0)
■ Full-step ■ Half-step

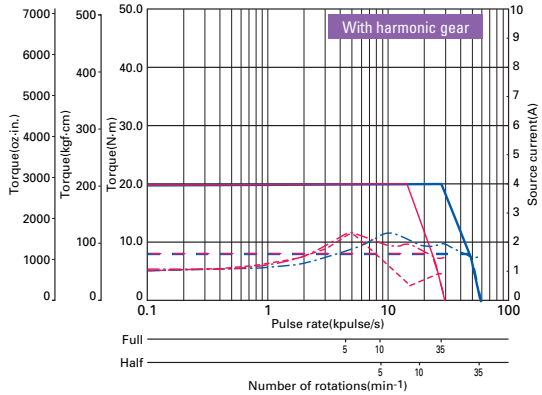
Pulse Rate-Torque Characteristics/Pulse Rate-Source Current Characteristics

● DP33F781□-HX50 : 24V



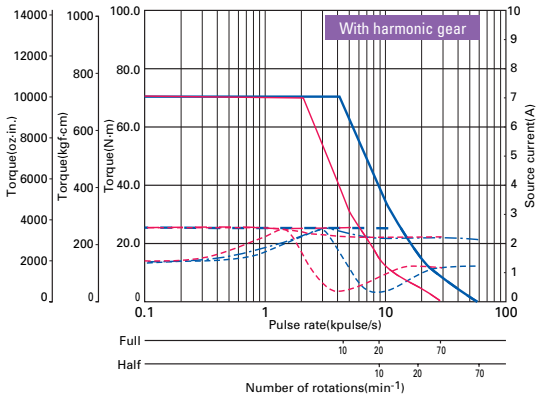
103F7851-80HXL□ ■ Full-step ■ Half-step
Source voltage : DC24V·Operating current : 1.5A/phase
—— Instantaneous allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
– – Allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
–·– Source current(T_L=MAX) – – – Source current(T_L=0)

● DP33F781□-HX100 : 24V



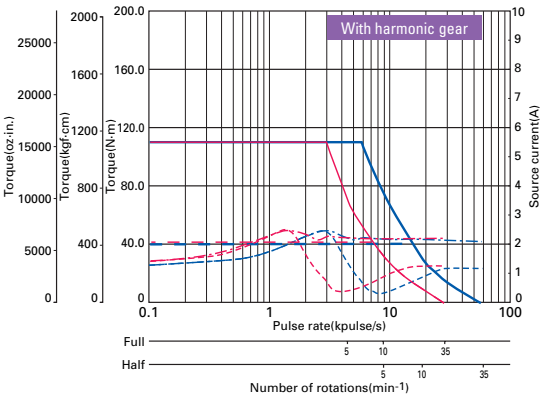
103F7851-80HXM□ ■ Full-step ■ Half-step
Source voltage : DC24V·Operating current : 1.5A/phase
—— Instantaneous allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
– – Allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2]Use the rubber coupling)
–·– Source current(T_L=MAX) – – – Source current(T_L=0)

● DP33F851□-HX50 : 24V



103F8581-80HXL□ ■ Full-step ■ Half-step
Source voltage : DC24V·Operating current : 1.5A/phase
—— Instantaneous allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
– – Allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
–·– Source current(T_L=MAX) – – – Source current(T_L=0)

● DP33F851□-HX100 : 24V



103F8581-80HXM□ ■ Full-step ■ Half-step
Source voltage : DC24V·Operating current : 1.5A/phase
—— Instantaneous allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
– – Allowable torque(J_{L1}=43×10^{-4}kg·m^2 [235.10 oz·in^2] Use the rubber coupling)
–·– Source current(T_L=MAX) – – – Source current(T_L=0)