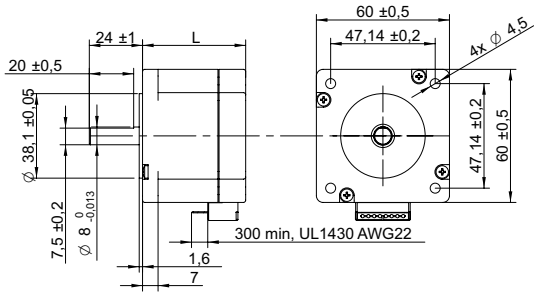
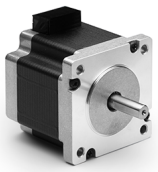
SHW60-18 | □ 60 x 60 mm | HYBRID STEPPING MOTOR

DRAWING (mm)



PHOTO



MODEL NO. DESIGNATION

SHW60	-	STEP ANGLE	-	CURRENT

Example: SHW6047-18-280

OPTIONS DRIVER AND POWER SUPPLY

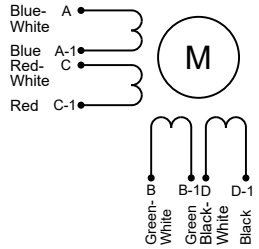


● C = customizations are offered on demand even for smaller quantities. Typical customizations are indicated with a green dot at column end. Please contact us for any customization request.

COMMON MOTOR DATA			C
Step angle	°	1.8	
Step angle accuracy[1]	%	± 5	
Shaft material		X8CrNiS18-9 | SUS303	●
Bearing type		Ball bearing	●
Radial play[2]	mm	0.02	
Axial play[2]	mm	0.08	
Max. radial force[3]	N	75	
Max. axial force	N	15	
Dielectric strength[4]	V	600	
Insulation resistance[5]	MΩ	100	
Operating temperature	°C	-20 to 50	●
Insulation class		Class B	
IP rating		IP30	●
Connection harness		UL 1430 AWG22 | 300 mm	●
Connector		Not in standard	●

MODEL-SPECIFIC MOTOR DATA					
Model		SHW6047-18-280	SHW6056-18-280	SHW6067-18-280	SHW6088-18-280
Graph		A	B	C	D
Holding torque	Nm	1.1	1.7	2.1	3
Detent torque	Nm	0.05	0.07	0.09	0.12
Rotor inertia	gcm²	280	400	570	840
Current | phase	A	2.8	2.8	2.8	2.8
Resistance | phase	Ω	0.75	0.9	1.2	1.5
Inductance	mH	2	3.6	4.6	6.8
Length | L	mm	47	56	67	88
Weight	kg	0.6	0.77	1.2	1.4

EXCITATION SEQUENCE TABLE

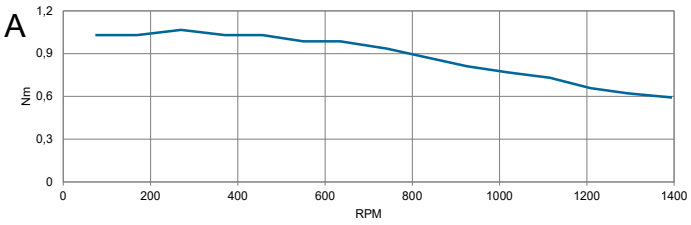


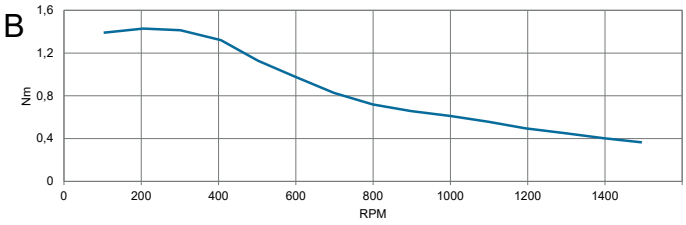
CW	A	C	B	D
1	●		●	
2		●	●	
3		●		●
4	●			●
1	●		●	

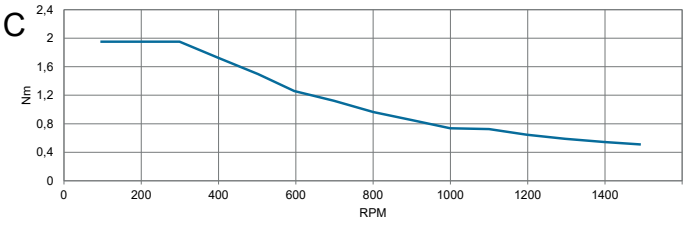
● = +Polarity

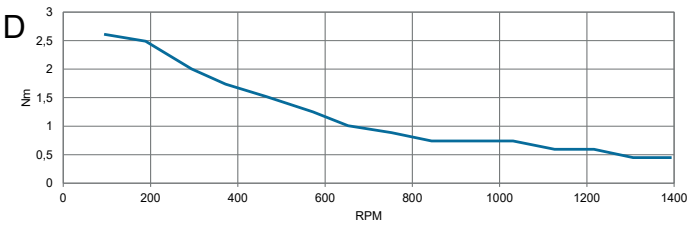
SPEED | TORQUE PERFORMANCE GRAPH PULL OUT

Graph		A	B	C	D
Supply voltage	V	48	48	48	48
Current | phase	A	2.7	2.7	2.7	2.7









NOTES

1. Full step no load.
2. 450 g load.
3. 20 mm from shaft.
4. AC, 1 second.
5. 500 V, DC.

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