

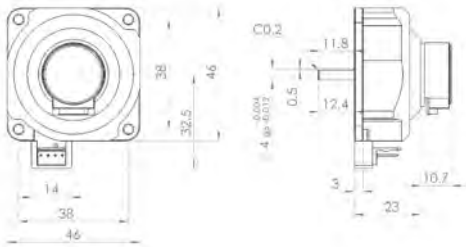
# Motor for general environment

PSM40S SERIES

## PSM40S-E2T

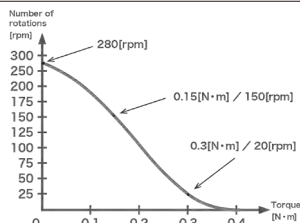


Small motor with 2,000 p/r encoder for general environment.  
Equipped with 2,000 pulse/turn TTL signals output encoder. Motor position and speed can be controlled with accuracy of  $\pm 0.045^\circ$  (Multiplying by 4 times). It is ideal as a motor for ultra-high precision indexing equipment.



※ There is a mounting screw hole with a depth of 3.5 mm with 3-M3 PCD  $\Phi 28$  on the motor base side

Model Name	Motor with 2,000 p/r encoder PSM40S-E2T
Drive Frequency	52~58 [KHz]
Drive Voltage	130 [Vrms]
Rated Speed	150[rpm]
Maximum Speed	250[rpm]
Rated Torque	0.15 [N·m]
Maximum Torque	0.3 [N·m]
Holding Torque	0.3 [N·m]
Direction & Response	CW, CCW, Less than 1 [ms] ( No-load )
Temperature Range	-10 ~ +55 [°C]
Life Time	3,000 [Hours]
Size(W×D×H)	46×46×46 [mm]
Weight	90[g]
Encoder resolution	2,000[p/r]
Minimum Accuracy	0.045°



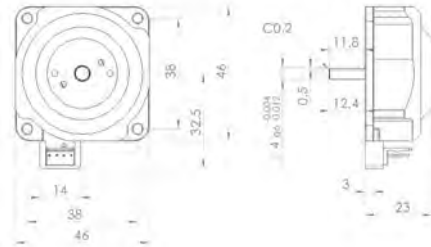
# Motor for magnetic field environment

PSM40N SERIES

## PSM40N-A

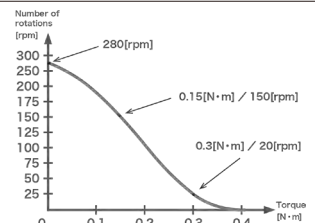


Sensorless single-shaft small motor for magnetic field environment.  
Applicable to 3 [T] magnetic field environment.  
Minimum size for PSM 60 N series.  
It is ideal as a positioning and transport motor using sensors installed in devices such as MRI and elemental analyzers that are used in high-magnetic field.



※ There is a mounting screw hole with a depth of 3.5 mm with 3-M3 PCD  $\Phi 28$  on the motor base side

Model Name	Single-shaft motor PSM40N-A
Drive Frequency	52~58 [KHz]
Drive Voltage	130 [Vrms]
Rated Speed	150[rpm]
Maximum Speed	250[rpm]
Rated Torque	0.15 [N·m]
Maximum Torque	0.3 [N·m]
Holding Torque	0.3 [N·m]
Direction & Response	CW, CCW, Less than 1 [ms] ( No-load )
Temperature Range	-10 ~ +55 [°C]
Life Time	3,000 [Hours]
Size(W×D×H)	46×46×35.5 [mm]
Weight	83 [g]
Encoder resolution	Without encoder, Single-shaft
Minimum Accuracy	Depends on external sensor



※PSM40 series will be made to order.

# Motor for magnetic field environment

PSM40N SERIES

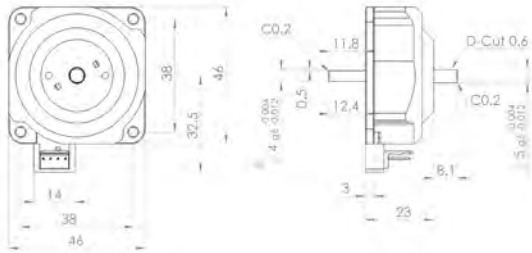
## PSM40N-B



Sensorless double-shaft small motor for magnetic field environment.

It has a subshaft for mounting external sensors of other manufacturers directly to the motor.

This motor can control the equipment using a third-party encoder or tacho generator that can be used in a magnetic field.



※ There is a mounting screw hole with a depth of 3.5 mm with 3-M3 PCD  $\Phi$ 28 on the motor base side

Model Name	Double-shaft motor PSM40N-B	
Drive Frequency	52~58 [KHz]	
Drive Voltage	130 [Vrms]	
Rated Speed	150[rpm]	
Maximum Speed	250[rpm]	
Rated Torque	0.15 [N·m]	
Maximum Torque	0.3 [N·m]	
Holding Torque	0.3 [N·m]	
Direction & Response	CW, CCW, Less than 1 [ms] ( No-load )	
Temperature Range	-10 ~ +55 [°C]	
Life Time	3,000 [Hours]	
Size(W×D×H)	46×46×43.5 [mm]	
Weight	84 [g]	
Encoder resolution	Without encoder, Single-shaft	
Minimum Accuracy	Depends on external sensor	

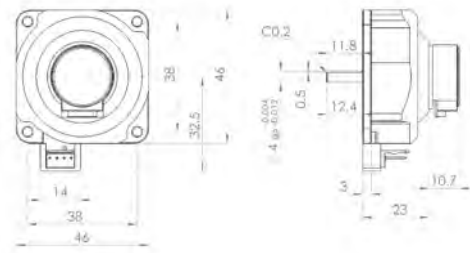
## PSM40N-E



Small motor with 500 p/r encoder for magnetic field environment.

Equipped with 500 pulse/turn TTL signals output encoder. Motor position and speed can be controlled with accuracy of  $\pm 0.18^\circ$  (Multiplying by 4 times) in a magnetic field environment of 3 [T].

It is ideal as a motor for small transfer equipment using ball screws.



※ There is a mounting screw hole with a depth of 3.5 mm with 3-M3 PCD  $\Phi$ 28 on the motor base side

Model Name	Motor with 500 p/r encoder PSM40N-E	
Drive Frequency	52~58 [KHz]	
Drive Voltage	130 [Vrms]	
Rated Speed	150[rpm]	
Maximum Speed	250[rpm]	
Rated Torque	0.15 [N·m]	
Maximum Torque	0.3 [N·m]	
Holding Torque	0.3 [N·m]	
Direction & Response	CW, CCW, Less than 1 [ms] ( No-load )	
Temperature Range	-10 ~ +55 [°C]	
Life Time	3,000 [Hours]	
Size(W×D×H)	46×46×46 [mm]	
Weight	90[g]	
Encoder resolution	500 [p/r]	
Minimum Accuracy	0.18°	

※PSM40 series will be made to order.

# Motor for magnetic field environment

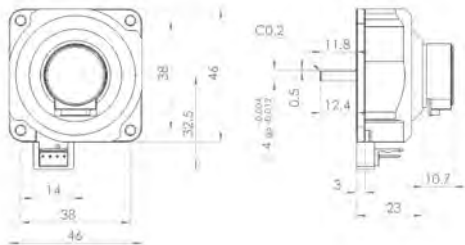
PSM40N SERIES

## PSM40N-ET



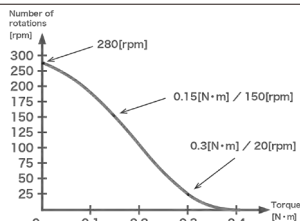
Small motor with 1,000 p/r encoder for magnetic field environment.

Equipped with 1,000 pulse/turn TTL signals output encoder. Motor position and speed can be controlled with accuracy of  $\pm 0.09^\circ$  (Multiplying by 4 times) in a magnetic field of 3 [T]. It is ideal as a motor for high-precision positioning stages used in MRI.



※ There is a mounting screw hole with a depth of 3.5 mm with 3-M3 PCD  $\Phi 28$  on the motor base side

Model Name	Motor with 1,000 p/r encoder PSM40N-ET
Drive Frequency	52~58 [KHz]
Drive Voltage	130 [Vrms]
Rated Speed	150[rpm]
Maximum Speed	250[rpm]
Rated Torque	0.15 [N·m]
Maximum Torque	0.3 [N·m]
Holding Torque	0.3 [N·m]
Direction & Response	CW, CCW, Less than 1 [ms] ( No-load )
Temperature Range	-10 ~ +55 [°C]
Life Time	3,000 [Hours]
Size(W×D×H)	46×46×46 [mm]
Weight	90[g]
Encoder resolution	1,000 [p/r]
Minimum Accuracy	0.09°

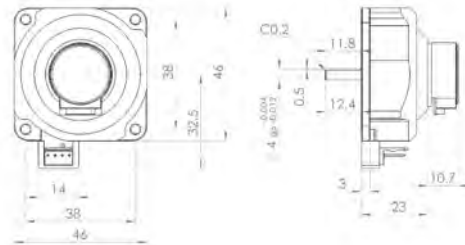


## PSM40N-ET2



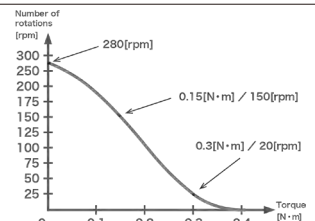
Small motor with 2,000 p/r encoder for magnetic field environment.

Equipped with 2,000 pulse/turn TTL signals output encoder. Motor position and speed can be controlled with an accuracy of  $\pm 0.045^\circ$  (Multiplying by 4 times) in a magnetic field of 3 [T]. It is ideal as a motor for ultra-high precision indexing equipment used in MRI.



※ There is a mounting screw hole with a depth of 3.5 mm with 3-M3 PCD  $\Phi 28$  on the motor base side

Model Name	Motor with 2,000 p/r encoder PSM40N-E2T
Drive Frequency	52~58 [KHz]
Drive Voltage	130 [Vrms]
Rated Speed	150[rpm]
Maximum Speed	250[rpm]
Rated Torque	0.15 [N·m]
Maximum Torque	0.3 [N·m]
Holding Torque	0.3 [N·m]
Direction & Response	CW, CCW, Less than 1 [ms] ( No-load )
Temperature Range	-10 ~ +55 [°C]
Life Time	3,000 [Hours]
Size(W×D×H)	46×46×46 [mm]
Weight	90[g]
Encoder resolution	2,000[p/r]
Minimum Accuracy	0.045°



※PSM40 series will be made to order.