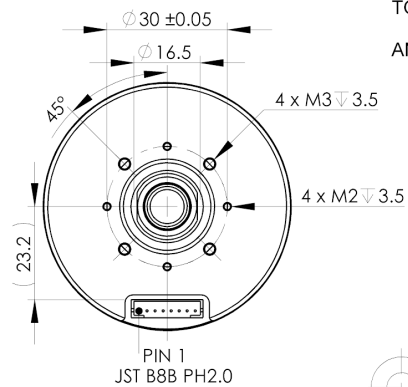
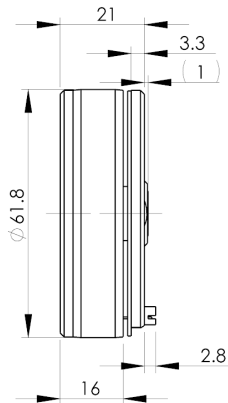
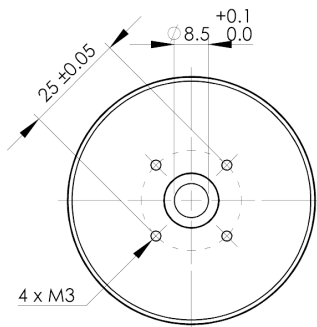


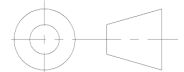
762-C00 Brushless motor Slotted (outrunner)

Ø62 x 21mm / no shafts / with sensors

DIMENSIONS ARE IN mm
SURFACE FINISH: N7
TOLERANCES:
LINEAR: ±0.2
ANGULAR: ±1°



3RD ANGLE PROJECTION



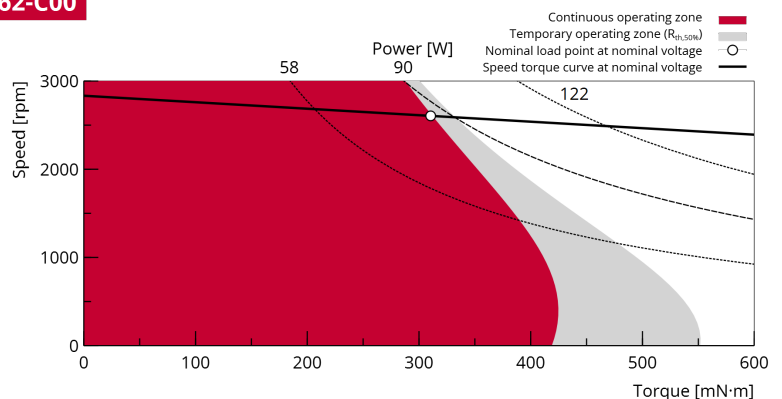
PIN	Description
1	U
2	V
3	W
4	Hu
5	Hv
6	Hw
7	GND
8	5VDC

Design and accessories		Units	Samples available 762-C00	Manufacturable on request	Custom design 762-XXX
A	Availability		Stocked design		8 weeks
B	Motor Type		Brushless		Brushless
C	Commutation		Digital Hall		Sensored / sensorless
D	Shafts		Not fitted		Dual / single
E	Encoder		Not fitted		Magnetic / optical
F	Gearbox		Not fitted		Range 1:4 ~ 1:10000
G	Connections		JST B8B PH2.0		To requirement
H	Cable		Not fitted		To requirement
I	Housing Material		Aluminium alloy		Aluminium alloy
I	Body diameter	mm	62		
K	Body length	mm	21		
L	Weight	g	214.0		

Performance characteristics					
1	Nominal voltage	v	48		This motor can be wound for nominal voltages in a 12 ~ 48V range. Nominal load, no load, and stall points, and efficiency will depend on the winding design. Please contact support@pmicrodrives.com
2	No load speed	rpm	2 860		
3	No load current	A	0.19		
4	Nominal speed	rpm	2 630		
5	Nominal torque	mNm	310		
6	Nominal current	A	2.14		
7	Stall torque	mNm	3 820		
8	Stall current	A	24.00		
9	Maximum efficiency	%	83.00		

Winding specific characteristics					
10	Terminal resistance	Ω	2.00		Winding dependent
11	Terminal inductance	mH	3.37		
12	Torque constant (Kt)	mNm/A	159		
13	Speed constant (Kv)	rpm/V	60		
14	Speed / torque gradient	rpm/mNm	1.0		
15	Mechanical time constant	ms	2.5		
16	Rotor inertia	g·cm²	320		

Motor body characteristics				Operating range (based on ambient 25°C)
17	Thermal resistance housing-ambient	°C/W	4.2	762-C00
18	Thermal resistance winding-housing	°C/W	0.9	
19	Thermal time constant winding	s	47	
20	Thermal time constant motor	s	1 041	
21	Ambient temperature	min	°C	-30
		max	°C	100
22	Max. permissible winding temperature	°C	150	
23	Max. permissible rotor speed	rpm	3 000	
25	Radial play		Preloaded	
26	Max. axial load (dynamic)	kN	1.7	



29	Number of pole pairs	7
30	Number of winding phases	3

Detailed datasheets, and stocked samples, are available upon request. Please contact support@precisionmicrodrives.com

V1 - Feb 2025