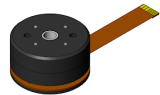
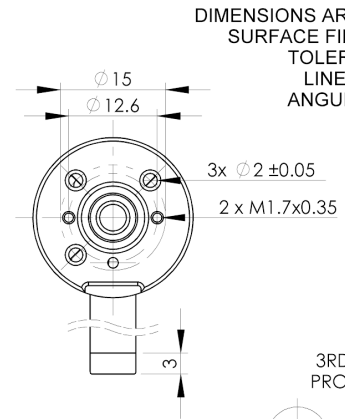
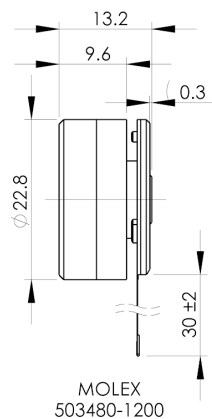
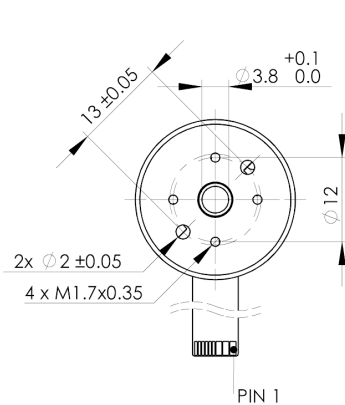


723-202 Brushless motor Slotted (outrunner)

Ø23 x 13mm / no shafts / with sensors / fit for gearbox and encoder

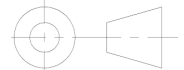


PIN	Description
1-2	Phase 1
3-4	Phase 2
5-6	Phase 3
7	T1
8	Hall a
9	Hall b
10	Hall c
11	5VDC
12	GND



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

3RD ANGLE
PROJECTION

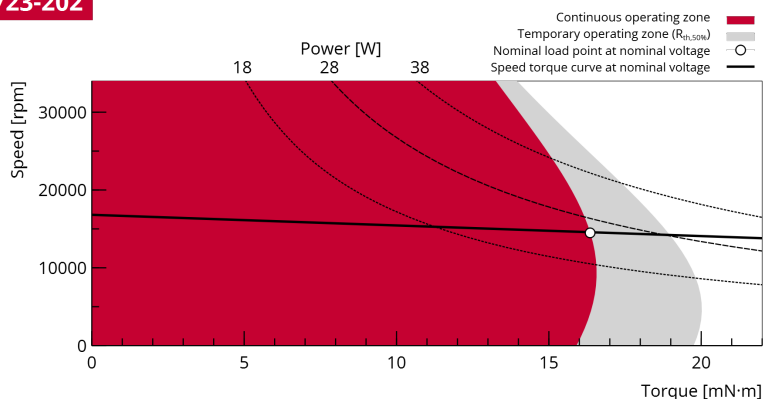


Design and accessories		Units	Samples available 723-202	Samples available 723-201	Custom design 723-XXX
A	Availability		Stocked design	Stocked design	8 weeks
B	Motor Type		Brushless	Brushless	Brushless
C	Commutation		Digital Hall	Digital Hall	Sensored / sensorless
D	Shafts		Not fitted	Not fitted	Dual / single
E	Encoder		Not fitted	Not fitted	Magnetic / optical
F	Gearbox		Not fitted	Not fitted	Range 1:4 ~ 1:5033
G	Connections		MOLEX 503480-1200	MOLEX 503480-1200	To requirement
H	Cable		FPC	FPC	To requirement
I	Housing Material		Aluminium alloy	Aluminium alloy	Aluminium alloy
I	Body diameter	mm	23	23	
K	Body length	mm	13	13	
L	Weight	g	16.5	16.5	

Performance characteristics			723-202	723-201	
1	Nominal voltage	v	24	34	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@nmдри.com
2	No load speed	rpm	16 820	16 970	
3	No load current	A	0.19	0.15	
4	Nominal speed	rpm	14 590	14 770	
5	Nominal torque	mNm	16.00	15.75	
6	Nominal current	A	1.38	0.99	
7	Stall torque	mNm	123.3	124.8	
8	Stall current	A	9.23	6.67	
9	Maximum efficiency	%	73.70	72.70	

Winding specific characteristics			723-202	723-201	
10	Terminal resistance	Ω	2.60	5.10	Winding dependent
11	Terminal inductance	mH	0.23	0.14	
12	Torque constant (Kt)	mNm/A	13.36	18.72	
13	Speed constant (Kv)	rpm/V	715	510	
14	Speed / torque gradient	rpm/mNm	139	139	
15	Mechanical time constant	ms	8.5	8.5	
16	Rotor inertia	g·cm²	6.0	6.0	

Motor body characteristics				Operating range (based on ambient 25°C)
17	Thermal resistance housing-ambient	°C/W	13.0	723-202
18	Thermal resistance winding-housing	°C/W	5.7	
19	Thermal time constant winding	s	2	
20	Thermal time constant motor	s	240	
21	Ambient temperature	min °C	-30	
		max °C	100	
22	Max. permissible winding temperature	°C	125	
23	Max. permissible rotor speed	rpm	34 000	
25	Radial play		Preloaded	
26	Max. axial load (dynamic)	N	65.0	



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