



MOTOR INNOVATION LEADS DYNAMIC EVOLUTION

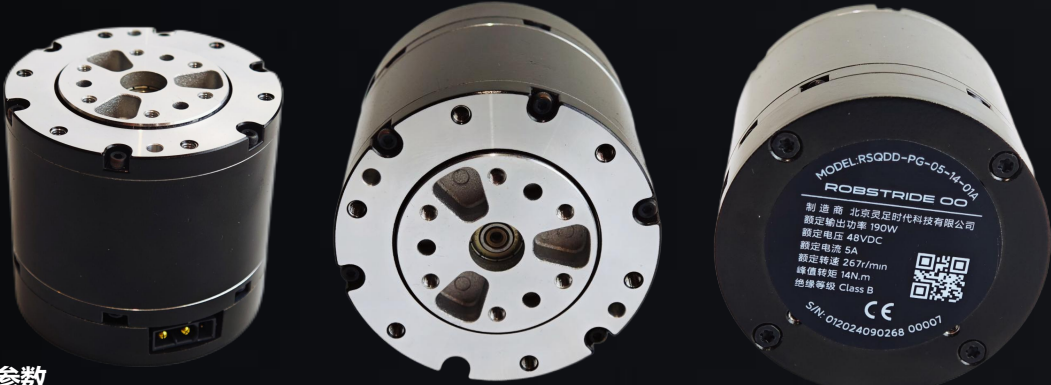
一体化高性能关节模组

北京灵足时代科技有限公司
RobStride Dynamics Co., Ltd

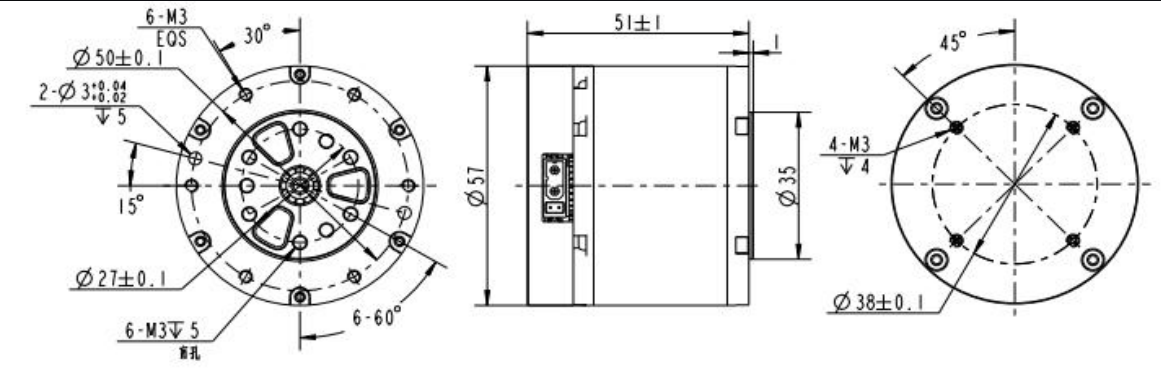
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ROBSTRIDE 00 - ¥598

准直驱14N.m—体化电机模组
14N.m Integrated QDD Actuator



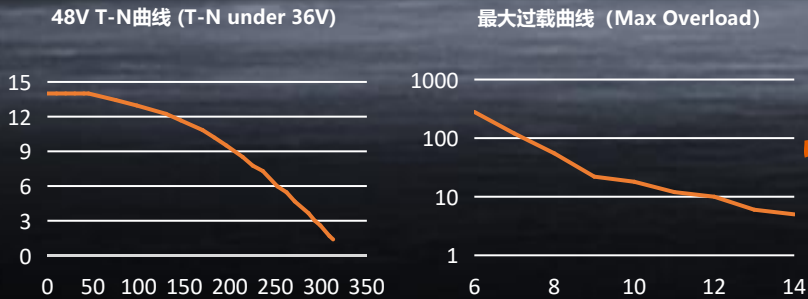
尺寸参数
Dimensions



机械参数
Mechanical Specs

科目 Item	参数 Spec
重量 Weight	310g ±3g
极数 Pole	28
相数 Phase	3
驱动方式 Drive Method	FOC
减速比 reduction ratio	10 : 1

性能曲线
Performance Curves



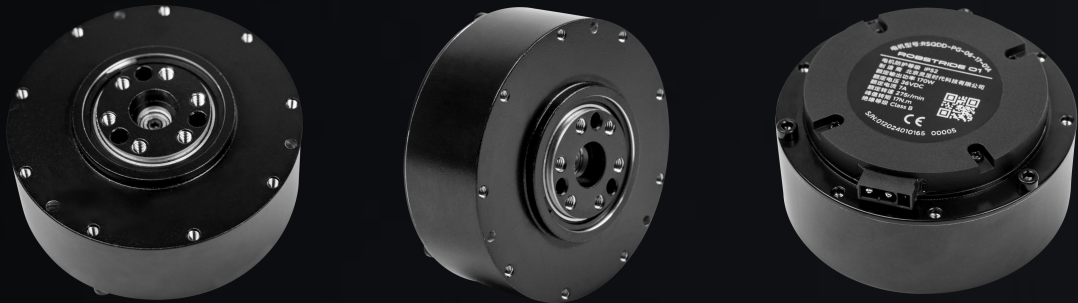
电气特性
Electrical Specs

科目 Item	参数 Spec
磁编码器 Magnetic Encoder	2 pcs
额定电压 Rated Voltage	48V
使用电压范围 Voltage Range	24~60V
额定输出功率 Rated Output Power	50w ±10%
额定扭矩 Rated Torque	5N.m
峰值扭矩 Peak Torque	14N.m
运转方向 Running Direction	CW/CCW
使用温度范围 Temperature Range	-20~50°C
使用湿度范围 Humidity Range	5~85%
保存温度范围 Storage Temperature Range	-30~70°C
绝缘等级 Insulation Level	Class B
空载转速 No-load Speed	315 rpm ± 10%
空载电流 No-load Current	0.5 Arms
额定负载转速 Rated Load Speed	100 rpm ± 10%
额定负载相电流 Rated Load Phase Current	4.7A _{pk} ± 10%
峰值相电流 Peak Phase Current	15.5A _{pk} ± 10%
绝缘电阻/定子绕组 Insulation Resistance/ Stator Winding	DC 500VAC, 100M Ohms
耐高压/定子与机壳 High Voltage Resistance/ Stator and Casing	600VAC, 1s, 2mA
电机反电势 Back-EMF	0.095 V _{rms} /rpm ±10%
线电阻 Line Resistance	1.5±10%Ω
转矩常数 Torque Constant	1.48 N.m/Arms
电机电感 Inductance	750±20μH

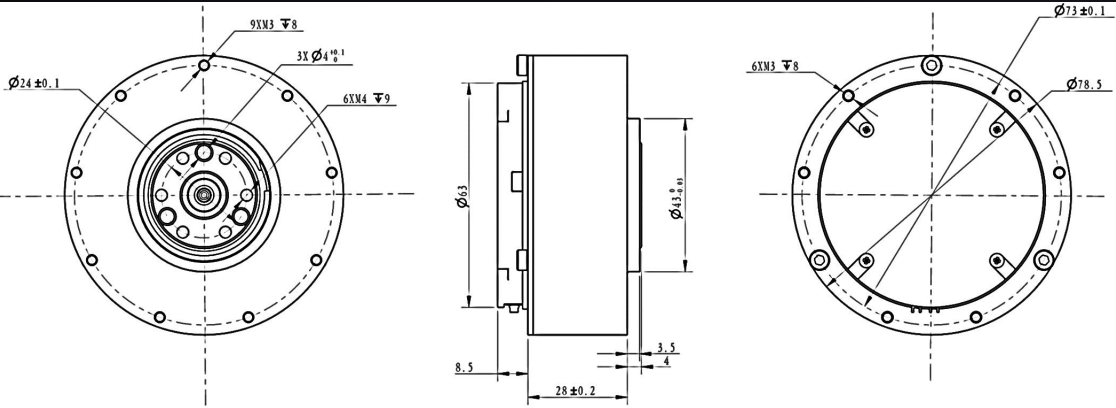
负载 Load (N.m)	工作时间 Operating Time (s)
5	rated
7	120
10	18
12	10
14	5

ROBSTRIDE 01 - ¥599

准直驱17N.m一体化电机模组
17N.m Integrated QDD Actuator



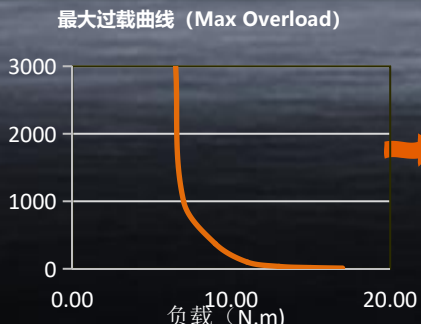
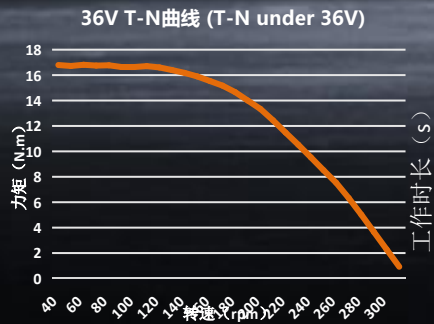
尺寸参数 Dimensions



机械参数 Mechanical Specs

科目 Item	参数 Spec
重量 Weight	380g ±3g
极数 Pole	28
相数 Phase	3
驱动方式 Drive Method	FOC
减速比 reduction ratio	7.75 : 1

性能曲线 Performance Curves



电气特性 Electrical Specs

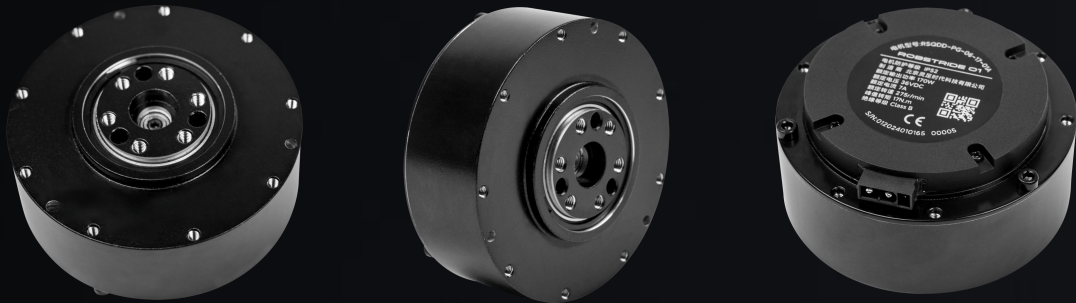


科目 Item	参数 Spec
磁编码器 Magnetic Encoder	1 pc
额定电压 Rated Voltage	36V
使用电压范围 Voltage Range	24-48V
额定输出功率 Rated Output Power	60w ±10%
额定扭矩 Rated Torque	6N.m
峰值扭矩 Peak Torque	17N.m
运转方向 Running Direction	CW/CCW
使用温度范围 Temperature Range	-20~50°C
使用湿度范围 Humidity Range	5~85%
保存温度范围 Storage Temperature Range	-30~70°C
绝缘等级 Insulation Level	Class B
空载转速 No-load Speed	315 rpm ± 10%
空载电流 No-load Current	0.5 Arms
额定负载转速 Rated Load Speed	275 rpm ± 10%
额定负载相电流 Rated Load Phase Current	7Apk ± 10%
峰值相电流 Peak Phase Current	23Apk ± 10%
绝缘电阻/定子绕组 Insulation Resistance/ Stator Winding	DC 500VAC, 100M Ohms
耐高压/定子与机壳 High Voltage Resistance/ Stator and Casing	600VAC, 1s, 2mA
电机反电势 Back-EMF	0.096 Vrms/rpm ±10%
线电阻 Line Resistance	0.55Ω
转矩常数 Torque Constant	1.22 N.m/Arms
电机电感 Inductance	486±20%μH

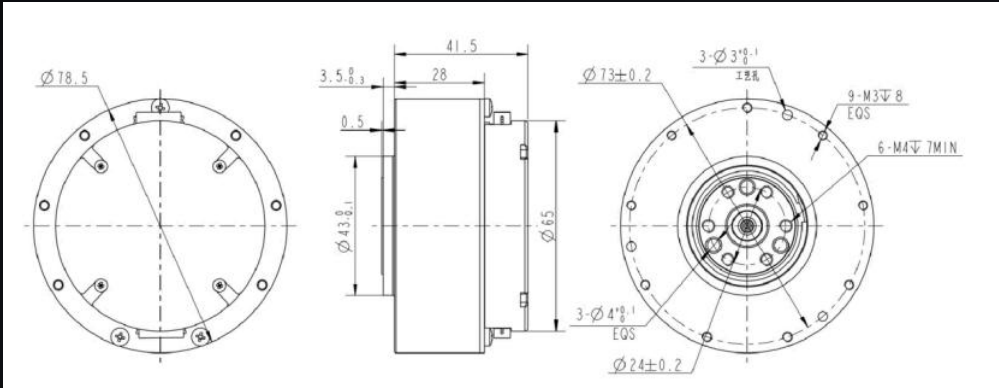
负载 Load (N.m)	工作时间 Operating Time (s)
6	rated
6.5	3000
11	100
15	18
17	10

ROBSTRIDE 02 - ¥699

准直驱17N.m一体化电机模组
17N.m Integrated QDD Actuator



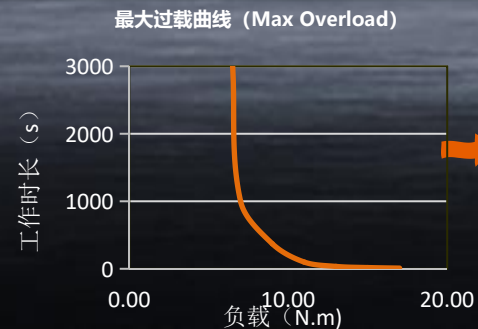
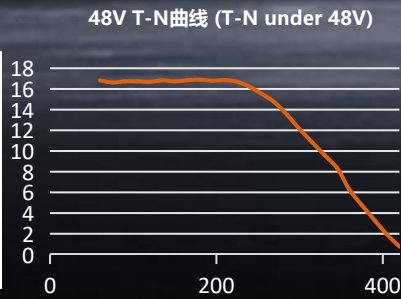
尺寸参数 Dimensions



机械参数 Mechanical Specs

科目 Item	参数 Spec
重量 Weight	380g ±3g
极数 Pole	28
相数 Phase	3
驱动方式 Drive Method	FOC
减速比 reduction ratio	7.75 : 1

性能曲线 Performance Curves



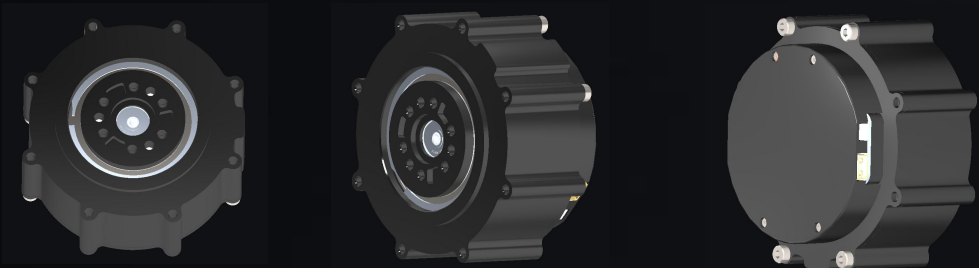
电气特性 Electrical Specs

科目 Item	参数 Spec
磁编码器 Magnetic Encoder	2 pcs
额定电压 Rated Voltage	48V
使用电压范围 Voltage Range	24~60V
额定输出功率 Rated Output Power	60w ±10%
额定扭矩 Rated Torque	6N.m
峰值扭矩 Peak Torque	17N.m
运转方向 Running Direction	CW/CCW
使用温度范围 Temperature Range	-20~50°C
使用湿度范围 Humidity Range	5~85%
保存温度范围 Storage Temperature Range	-30~70°C
绝缘等级 Insulation Level	Class B
空载转速 No-load Speed	410 rpm ± 10%
空载电流 No-load Current	0.5 Arms
额定负载转速 Rated Load Speed	100rpm ± 10%
额定负载相电流 Rated Load Phase Current	7Apk ± 10%
峰值相电流 Peak Phase Current	23Apk ± 10%
绝缘电阻/定子绕组 Insulation Resistance/ Stator Winding	DC 500VAC, 100M Ohms
耐高压/定子与机壳 High Voltage Resistance/ Stator and Casing	600VAC, 1s, 2mA
电机反电势 Back-EMF	0.096 Vrms/rpm ±10%
线电阻 Line Resistance	0.55Ω
转矩常数 Torque Constant	1.22 N.m/Arms
电机电感 Inductance	486±20%μH

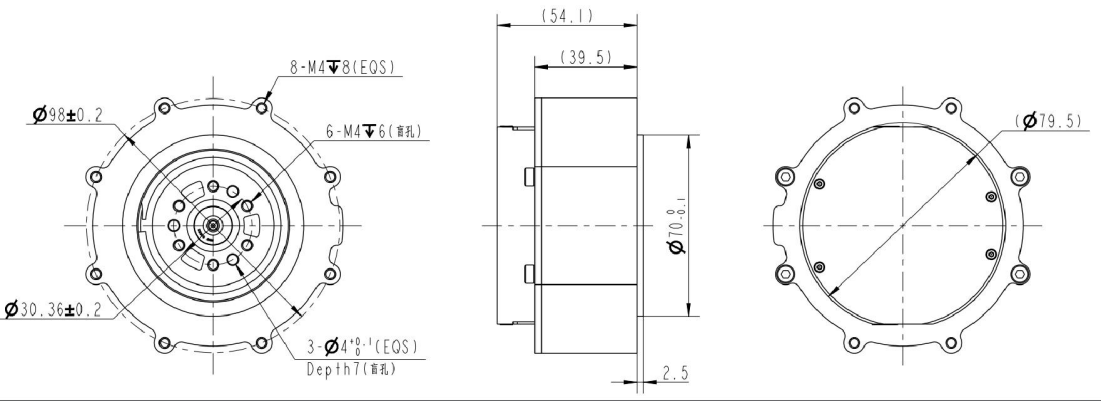
负载 Load (N.m)	工作时间 Operating Time (s)
6	rated
6.5	3000
11	100
15	18
17	10

ROBSTRIDE 03 - ¥999

准直驱60N.m一体化电机模组
60N.m Integrated QDD Actuator



尺寸参数 Dimensions

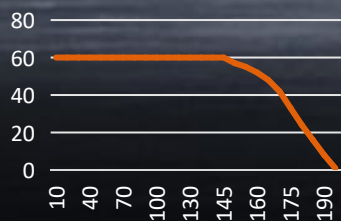


机械参数 Mechanical Specs

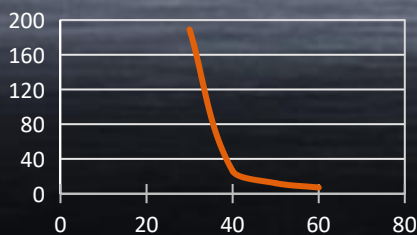
科目 Item	参数 Spec
重量 Weight	900g \pm 20g
极数 Pole	42
相数 Phase	3
驱动方式 Drive Method	FOC
减速比 reduction ratio	9 : 1

性能曲线 (TBD) Performance Curves

48V T-N曲线 (T-N under 48V)



最大过载曲线 (Max Overload)



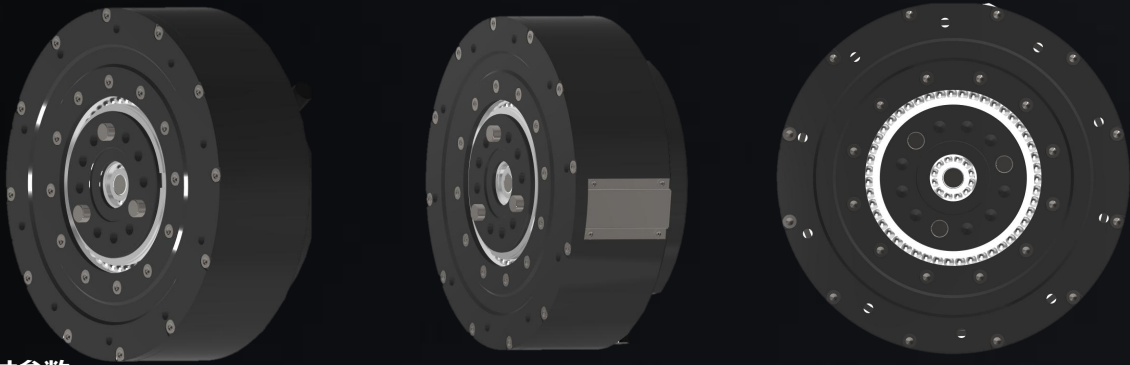
电气特性 Electrical Specs

科目 Item	参数 Spec
磁编码器 Magnetic Encoder	2 pcs
额定电压 Rated Voltage	48V
使用电压范围 Voltage Range	15-60V
额定输出功率 Rated Output Power	210W \pm 10%
额定扭矩 Rated Torque	20N.m
峰值扭矩 Peak Torque	60N.m
运转方向 Running Direction	CW/CCW
使用温度范围 Temperature Range	-20~50°C
使用湿度范围 Humidity Range	5~85%
保存温度范围 Storage Temperature Range	-30~70°C
绝缘等级 Insulation Level	Class B
空载转速 No-load Speed	195rpm \pm 10%
空载电流 No-load Current	0.6Arms \pm 10%
额定负载转速 Rated Load Speed	100rpm \pm 10%
额定负载相电流 Rated Load Phase Current	13A _{pk} \pm 10%
峰值相电流 Peak Phase Current	43A _{pk} \pm 10%
绝缘电阻/定子绕组 Insulation Resistance/ Stator Winding	DC 500VAC, 100M Ohms
耐高压/定子与机壳 High Voltage Resistance/ Stator and Casing	600VAC, 1s, 2mA
电机反电势 Back-EMF	17Vrms/krpm \pm 10%
线电阻 Line Resistance	0.39 Ω \pm 10%
转矩常数 Torque Constant	2.36N.m/Arms
电机电感 Inductance	0.275mH \pm 10%

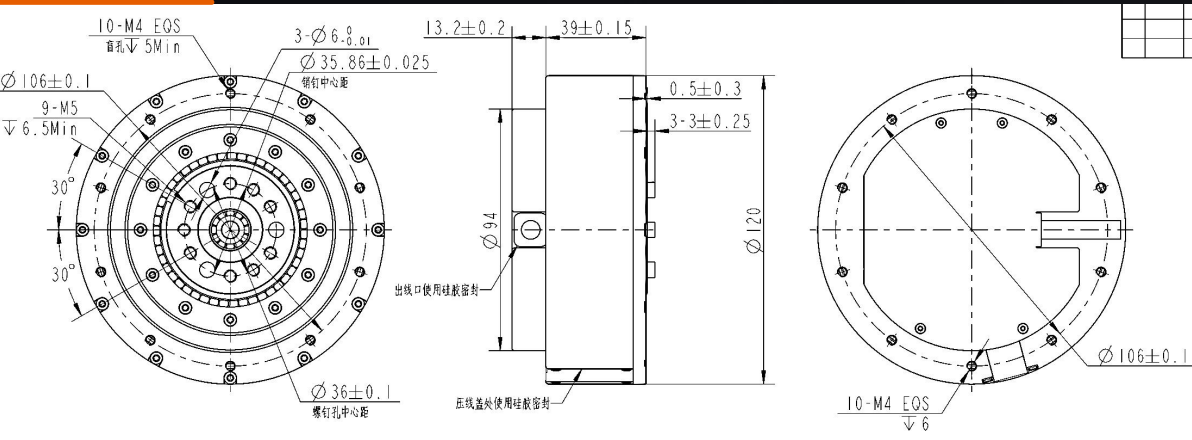
负载 Load (N.m)	工作时间 Operating Time (s)
20	rated
30	189
40	126
50	12
60	7

ROBSTRIDE 04 - ¥1199

准直驱120N.m一体化电机模组
120N.m Integrated QDD Actuator



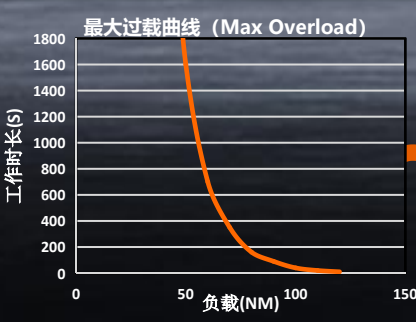
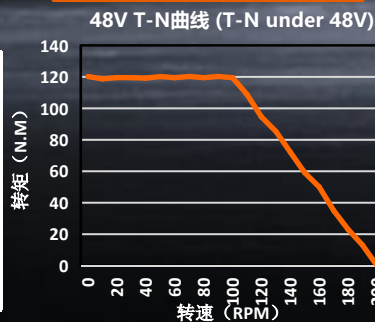
尺寸参数 Dimensions



机械参数 Mechanical Specs

科目 Item	参数 Spec
重量 Weight	1420g $\pm 20\text{g}$
极数 Pole	42
相数 Phase	3
驱动方式 Drive Method	FOC
减速比 reduction ratio	9 : 1

性能曲线 (TBD) Performance Curves



电气特性 Electrical Specs



科目 Item	参数 Spec
磁编码器 Magnetic Encoder	2 pcs
额定电压 Rated Voltage	48V
使用电压范围 Voltage Range	15-60V
额定输出功率 Rated Output Power	420w $\pm 10\%$
额定扭矩 Rated Torque	40N.m
峰值扭矩 Peak Torque	120N.m
运转方向 Running Direction	CW/CCW
使用温度范围 Temperature Range	-20~50°C
使用湿度范围 Humidity Range	5~85%
保存温度范围 Storage Temperature Range	-30~70°C
绝缘等级 Insulation Level	Class B
空载转速 No-load Speed	200 rpm $\pm 10\%$
空载电流 No-load Current	0.7 Arms $\pm 10\%$
额定负载转速 Rated Load Speed	100 rpm $\pm 10\%$
额定负载相电流 Rated Load Phase Current	27Apk $\pm 10\%$
峰值相电流 Peak Phase Current	90Apk $\pm 10\%$
绝缘电阻/定子绕组 Insulation Resistance/ Stator Winding	DC 500VAC, 100M Ohms
耐高压/定子与机壳 High Voltage Resistance/ Stator and Casing	600VAC, 1s, 2mA
电机反电势 Back-EMF	16.9 Vrms/krpm $\pm 10\%$
线电阻 Line Resistance	0.16 Ω $\pm 10\%$
转矩常数 Torque Constant	2.1N.m/Arms
电机电感 Inductance	0.211mH $\pm 10\%$

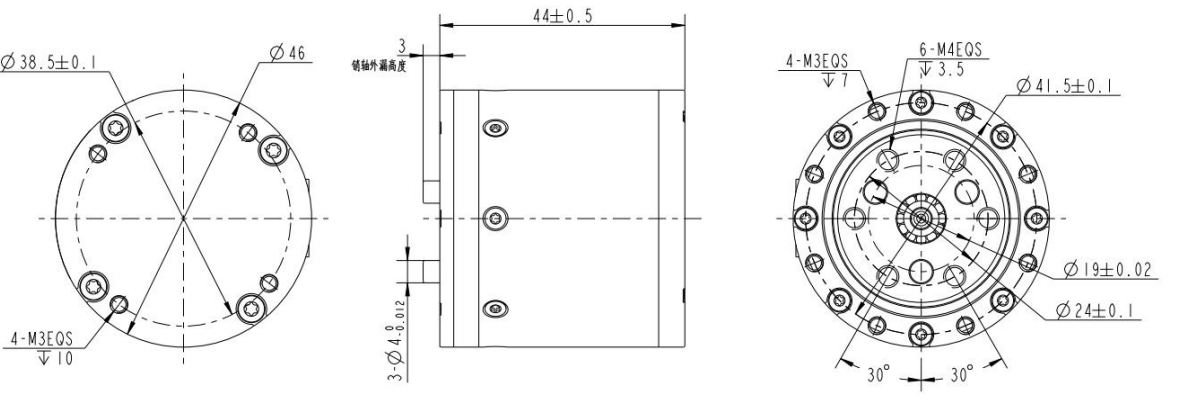
负载 Load (N.m)	工作时间 Operating Time (s)
40	rated
50	300
70	59
80	40
120	10

ROBSTRIDE 05 - ¥499

准直驱5.5N.m一体化电机模组
5.5N.m Integrated QDD Actuator



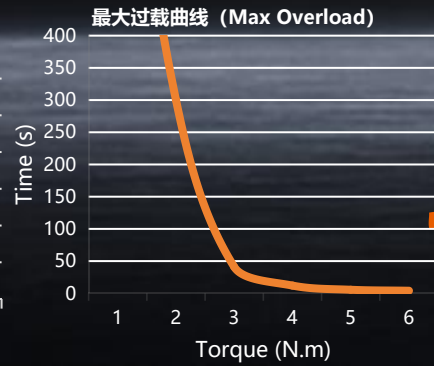
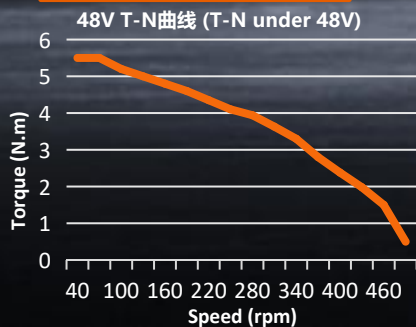
尺寸参数 Dimensions



机械参数 Mechanical Specs

科目 Item	参数 Spec
重量 Weight	191g
极数 Pole	20
相数 Phase	3
驱动方式 Drive Method	FOC
减速比 reduction ratio	7.75

性能曲线 (TBD) Performance Curves



电气特性 Electrical Specs



科目 Item	参数 Spec
磁编码器 Magnetic Encoder	2pcs
额定电压 Rated Voltage	48V
使用电压范围 Voltage Range	15-60V
额定输出功率 Rated Output Power	17W $\pm 10\%$
额定扭矩 Rated Torque	1.6N.m
峰值扭矩 Peak Torque	5.5N.m
运转方向 Running Direction	CW/CCW
使用温度范围 Temperature Range	-20~50°C
使用湿度范围 Humidity Range	5~85%
保存温度范围 Storage Temperature Range	-30~70°C
绝缘等级 Insulation Level	Class B
空载转速 No-load Speed	480 rpm $\pm 10\%$
空载电流 No-load Current	0.14 Arms $\pm 10\%$
额定负载转速 Rated Load Speed	100 rpm $\pm 10\%$
额定负载相电流 Rated Load Phase Current	2.4Apk $\pm 10\%$
峰值相电流 Peak Phase Current	11Apk $\pm 10\%$
绝缘电阻/定子绕组 Insulation Resistance/ Stator Winding	DC 500VAC, 100M Ohms
耐高压/定子与机壳 High Voltage Resistance/ Stator and Casing	600VAC, 1s, 2mA
电机反电势 Back-EMF	7.4Vrms/krpm $\pm 10\%$
线电阻 Line Resistance	2.72 Ω $\pm 10\%$
转矩常数 Torque Constant	0.94N.m/Arms
电机电感 Inductance	0.813mH $\pm 10\%$

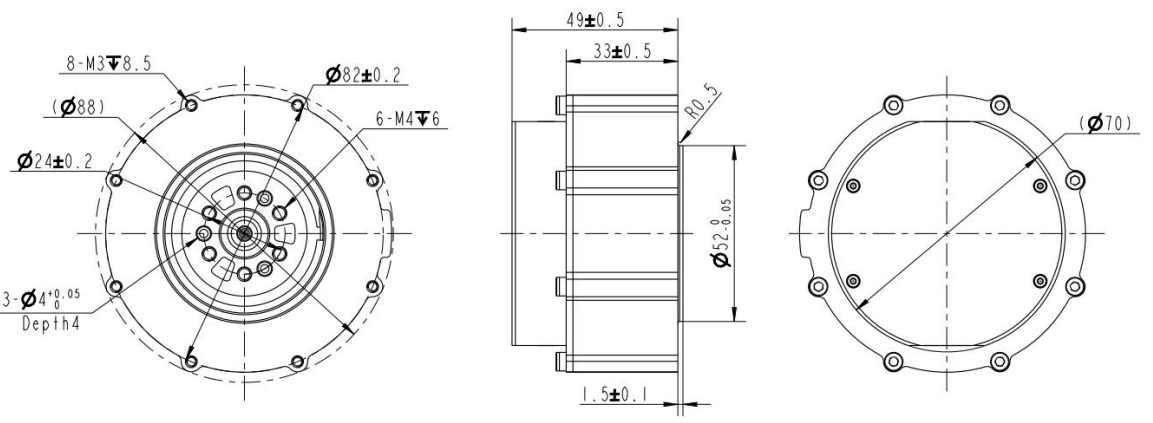
负载 Load (N.m)	工作时间 Operating Time (s)
1.6	Rated
2	300
3	41
4	12
5	5.5
5.5	4

ROBSTRIDE 06 - ¥849

准直驱36N.m一体化电机模组
36N.m Integrated QDD Actuator



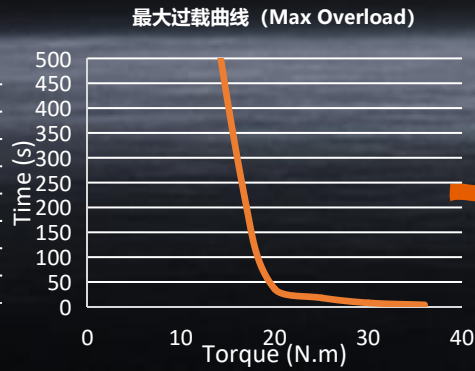
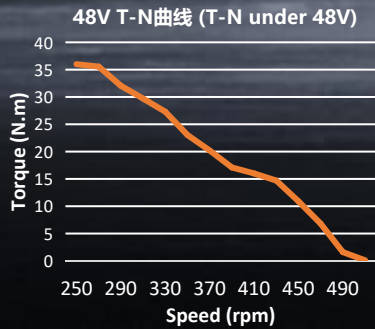
尺寸参数 Dimensions



机械参数 Mechanical Specs

科目 Item	参数 Spec
重量 Weight	621g
极数 Pole	28
相数 Phase	3
驱动方式 Drive Method	FOC
减速比 reduction ratio	9

性能曲线 (TBD) Performance Curves



电气特性 Electrical Specs

科目 Item	参数 Spec
磁编码器 Magnetic Encoder	2pcs
额定电压 Rated Voltage	48V
使用电压范围 Voltage Range	15-60V
额定输出功率 Rated Output Power	115W±10%
额定扭矩 Rated Torque	11N.m
峰值扭矩 Peak Torque	36N.m
运转方向 Running Direction	CW/CCW
使用温度范围 Temperature Range	-20~50°C
使用湿度范围 Humidity Range	5~85%
保存温度范围 Storage Temperature Range	-30~70°C
绝缘等级 Insulation Level	Class B
空载转速 No-load Speed	480 rpm ± 10%
空载电流 No-load Current	0.98 Arms ± 10%
额定负载转速 Rated Load Speed	100 rpm ± 10%
额定负载相电流 Rated Load Phase Current	14.3Apk ± 10%
峰值相电流 Peak Phase Current	57Apk ± 10%
绝缘电阻/定子绕组 Insulation Resistance/ Stator Winding	DC 500VAC, 100M Ohms
耐高压/定子与机壳 High Voltage Resistance/ Stator and Casing	600VAC, 1s, 2mA
电机反电势 Back-EMF	7.6Vrms/krpm ± 10%
线电阻 Line Resistance	0.23Ω ± 10%
转矩常数 Torque Constant	1.1N.m/Arms
电机电感 Inductance	0.165mH ± 10%

负载 Load (N.m)	工作时间 Operating Time (s)
11	Rated
17	200
20	36
25	18
30	8
36	4