Motor naming convention

①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫		⑬	
DM	M	-	06	040	F	2	1	J	G	A	E	Z	-	XXXX	Customized specifications

DM series

Rotor inertia
- H high
- M middle
- S low

Flange size
- 04 Base □ 40mm
- 06 Base □ 60mm
- 08 Base □ 80mm
- 13 Base □ 130mm
- 18 Base □ 180mm

Rated Power
- 005 50 W
- 020 200 W
- 040 400 W
- 075 750 W

Rated Speed
- C 1500 rpm
- D 2000 rpm
- E 2500 rpm
- F 3000 rpm

Rated Voltage
- 1 AC 110 V
- 2 AC 220 V
- 3 AC 380 V
- 4 DC 24 V
- 5 DC 48 V
- 6 DC 60 V
- 7 DC 72 V
- 8 DC 36 V

Encoder manufacturer
- 1 Tamagawa
- 4 Nikon
- 5 REAGLE SENSING
- 6 DEMAGAWA
- 7 AVIC
- 8 LINGXI
- 9 Roundss

Encoder type
- J optical encoder-17-bit absolute value multi-turn
- L optical encoder-23-bit absolute value multi-turn
- H optical encoder-Split 17-bit absolute multi-turn
- N optical encoder-Split 17-bit absolute value single turn
- E optical encoder-Split 23-bit absolute multi-turn
- Y optical encoder-Split 23-bit absolute value single turn
- T Magnetic encoder-Split 17-bit absolute multi-turn
- W Magnetic encoder-Split 17-bit absolute value single turn

Overload capacity
- G 3 times instantaneous torque at rated speed
- Q 1 times instantaneous torque at rated speed

Shaft end shape
- A Straight shaft, with keyway, with threaded hole
- B Straight shaft, no keyway, no threaded hole
- C Tapered shaft, with keyway, with thread

- E - with oil seal / None - without oil seal
- Z - with brake / None - without brake



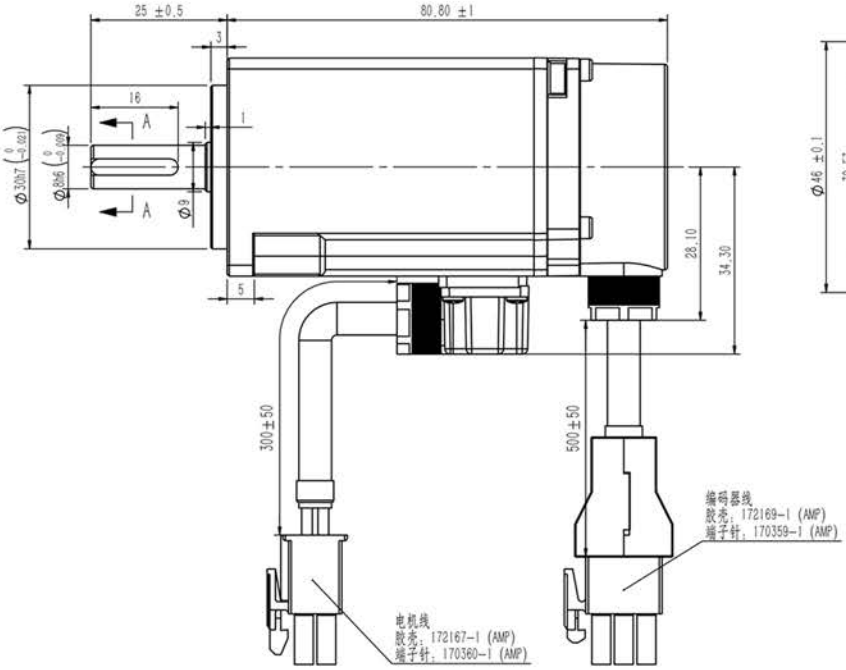
M M-04010F56TQAE-S001

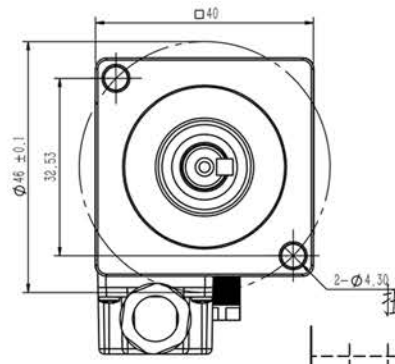


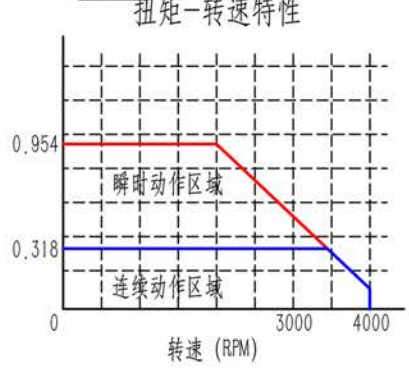
Motor model	Unit	DMM-04010F56TQAE-S001
Rated Power	W	100
Rated Voltage	V	48VDC
Rated Current	Arms	3.4
Instantaneous maximum current	Arms	10.6
Rated Torque	N.m	0.318
Instantaneous maximum torque	N.m	0.954
Rated Speed	rpm	3000
Peak Speed	rpm	4500
Back Electromotive Force	V/Krpm	6.3
Torque constant	N.m/A	0.09
Line resistance	Ohm	1.47
D-axis inductor	mH	0.79
Q-axis inductor	mH	0.94
Electrical time constant	ms	1.07
Rotor inertia	$\times 10^{-4} kg \cdot m^2$	0.066
Weight	kg	0.4
Length-L	mm	80.8
Number of Poles		10
Encoder resolution		17bit
Insulation level		F（155℃）
Protection level		IP54
Usage environment		Temperature：-20℃～+40℃（No icing）Humidity：<90%RH(No condensation)

Power Cable	1	2	3	4
	U	V	W	PE
	Red	White	Black	Yellow-Green

Absolute encoder cable	1	2	3	4	5	6	7	8	9
	E+	E-	PE	SD+	SD-	/	5V	0V	/
	Brown	White	Shield	Blue	Yellow	/	Red	Black	/







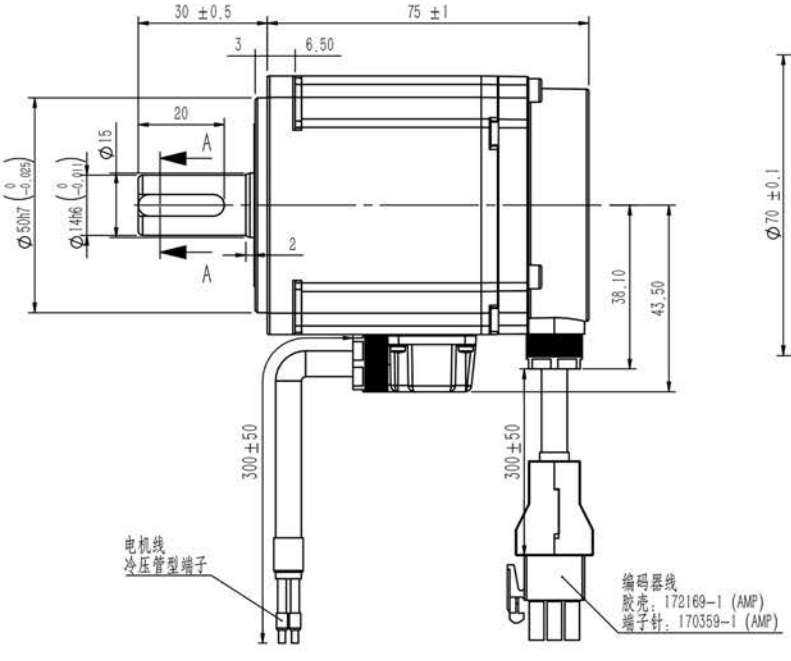
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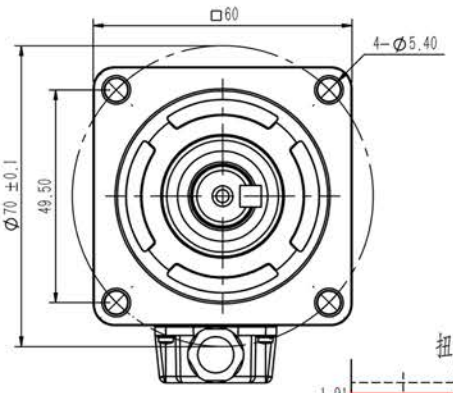


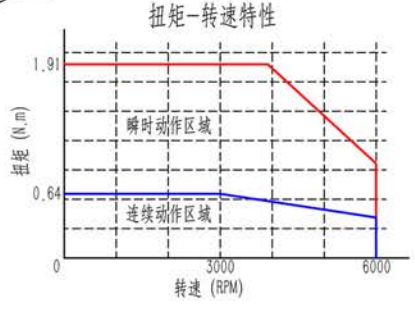
Motor model	Unit	DMM-06020F58WQAE-S001
Rated Power	W	200
Rated Voltage	V	48VDC
Rated Current	Arms	6.1
Instantaneous maximum current	Arms	18.6
Rated Torque	N.m	0.64
Instantaneous maximum torque	N.m	1.92
Rated Speed	rpm	3000
Peak Speed	rpm	4200
Back Electromotive Force	V/Krpm	5.9
Torque constant	N.m/A	0.1
Line resistance	Ohm	0.32
D-axis inductor	mH	0.22
Q-axis inductor	mH	0.25
Electrical time constant	ms	1.38
Rotor inertia	$\times 10^{-4} kg \cdot m^2$	0.28
Weight	kg	0.8
Length-L	mm	75
Number of Poles		10
Encoder resolution		17bit
Insulation level		F（155℃）
Protection level		IP54
Usage environment		Temperature：-20℃～+40℃（No icing）Humidity：<90%RH(No condensation)

Power Cable	1	2	3	4
	U	V	W	PE
	Red	White	Black	Yellow

Absolute encoder cable	1	2	3	4	5	6	7	8	9
	/	/	PE	SD+	SD-	/	5V	0V	/
	/	/	Shield	Blue	Yellow	/	Red	Black	/







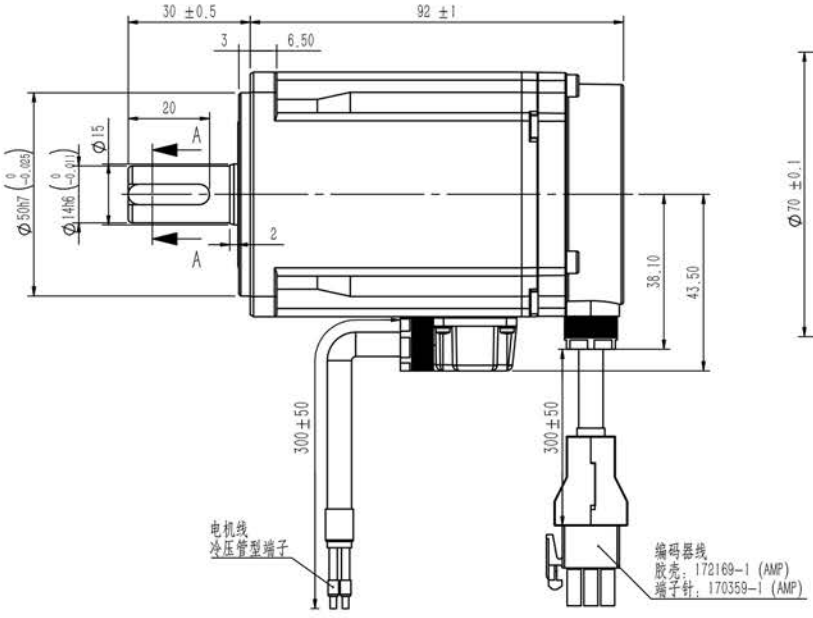
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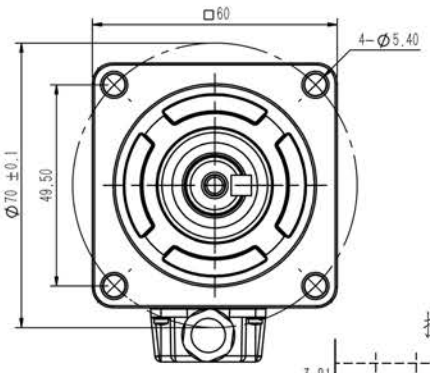


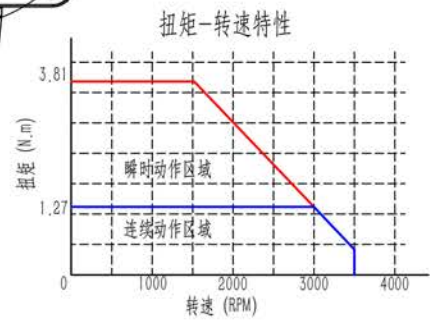
Motor model	Unit	DMM-06040F58WQAE-S001
Rated Power	W	400
Rated Voltage	V	48VDC
Rated Current	Arms	10.5
Instantaneous maximum current	Arms	31.5
Rated Torque	N.m	1.27
Instantaneous maximum torque	N.m	3.81
Rated Speed	rpm	3000
Peak Speed	rpm	3500
Back Electromotive Force	V/Krpm	8.5
Torque constant	N.m/A	0.12
Line resistance	Ohm	0.22
D-axis inductor	mH	0.18
Q-axis inductor	mH	0.22
Electrical time constant	ms	1.63
Rotor inertia	$\times 10^{-4} kg \cdot m^2$	0.52
Weight	kg	1.1
Length-L	mm	92
Number of Poles		10
Encoder resolution		17bit
Insulation level		F（155℃）
Protection level		IP54
Usage environment		Temperature：-20℃～+40℃（No icing）Humidity：<90%RH(No condensation)

Power Cable	1	2	3	4
	U	V	W	PE
	Red	White	Black	Yellow

Absolute encoder cable	1	2	3	4	5	6	7	8	9
	/	/	PE	SD+	SD-	/	5V	0V	/
	/	/	Shield	Blue	Yellow	/	Red	Black	/







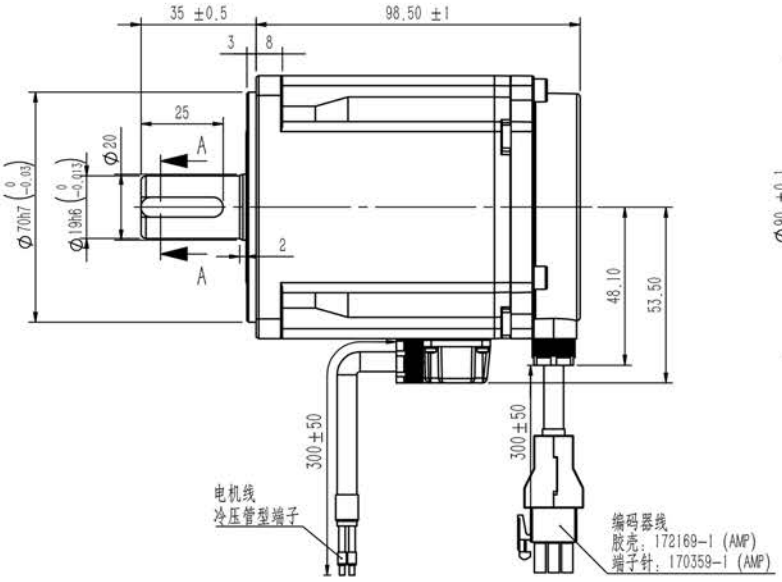
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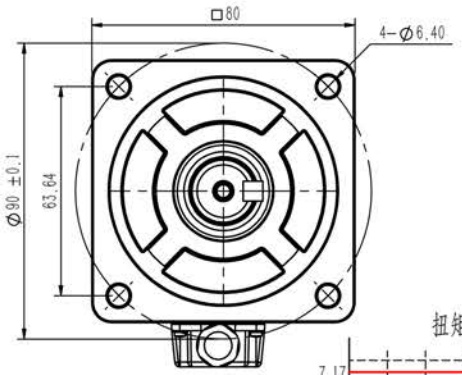


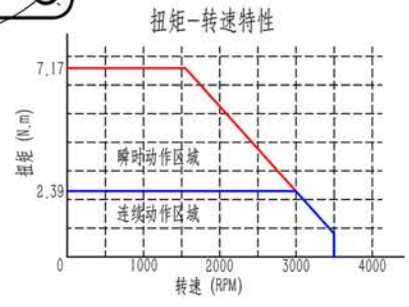
Motor model	Unit	DMM-08075F58WQAE-S004
Rated Power	W	750
Rated Voltage	V	48VDC
Rated Current	Arms	19.5
Instantaneous maximum current	Arms	60.2
Rated Torque	N.m	2.39
Instantaneous maximum torque	N.m	7.17
Rated Speed	rpm	3000
Peak Speed	rpm	3500
Back Electromotive Force	V/Krpm	8
Torque constant	N.m/A	0.12
Line resistance	Ohm	0.08
D-axis inductor	mH	0.1
Q-axis inductor	mH	0.12
Electrical time constant	ms	2.5
Rotor inertia	$\times 10^{-4} kg \cdot m^2$	1.48
Weight	kg	2.1
Length-L	mm	98.5
Number of Poles		10
Encoder resolution		17bit
Insulation level		F（155℃）
Protection level		IP54
Usage environment		Temperature：-20℃～+40℃（No icing）Humidity：<90%RH(No condensation)

Power Cable	1	2	3	4
	U	V	W	PE
	Red	White	Black	Yellow

Absolute encoder cable	1	2	3	4	5	6	7	8	9
	E+	E-	PE	SD+	SD-	/	5V	0V	/
	Brown	White	Shield	Blue	Yellow	/	Red	Black	/







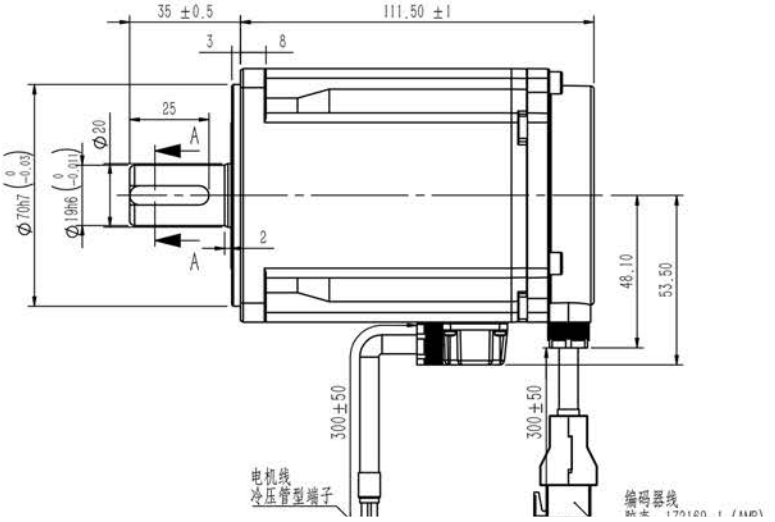
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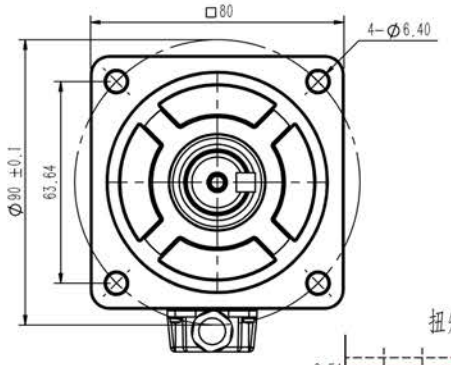


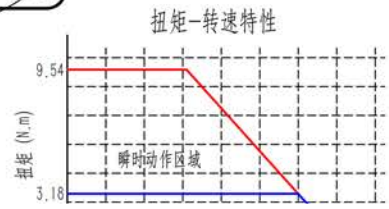
Motor model	单位	DMM-08100F58WQAE-S001
Rated Power	W	1000
Rated Voltage	V	48VDC
Rated Current	Arms	26.8
Instantaneous maximum current	Arms	83.1
Rated Torque	N.m	3.18
Instantaneous maximum torque	N.m	9.54
Rated Speed	rpm	3000
Peak Speed	rpm	3500
Back Electromotive Force	V/Krpm	8
Torque constant	N.m/A	0.12
Line resistance	Ohm	0.06
D-axis inductor	mH	0.08
Q-axis inductor	mH	0.1
Electrical time constant	ms	2.67
Rotor inertia	$\times 10^{-4} kg \cdot m^2$	1.97
Weight	kg	2.5
Length-L	mm	111.5
Number of Poles		10
Encoder resolution		17bit
Insulation level		F（155℃）
Protection level		IP65
Usage environment		Temperature：-20℃～+40℃（No icing）Humidity：<90%RH(No condensation)

Power Cable	1	2	3	4
	U	V	W	PE
	Red	White	Black	Yellow

Absolute encoder cable	1	2	3	4	5	6	7	8	9
	/	/	PE	SD+	SD-	/	5V	0V	/
	/	/	Shield	Blue	Yellow	/	Red	Black	/







DM M-130





Motor model	Unit	DMM-13085C5□QAE	DMM-13130C5□QAE	DMM-13180C5□QAE	DMM-13230C5□QAE
Rated Power	W	850	1300	1800	2300
Rated Voltage	V	48VDC	48VDC	48VDC	48VDC
Rated Current	Arms	35.5	53.4	76.4	87.1
Instantaneous maximum current	Arms	110	165	240	275
Rated Torque	N.m	5.41	8.28	11.46	14.64
Instantaneous maximum torque	N.m	16.23	24.84	34.38	43.92
Rated Speed	rpm	1500	1500	1500	1500
Peak Speed	rpm	3000	3000	3000	3000
Back Electromotive Force	V/Krpm	9.4	9.2	9.8	10.3
Torque constant	N.m/A	0.15	0.16	0.15	0.17
Line resistance	Ohm	0.03	0.02	0.01	0.01
D-axis inductor	mH	0.13	0.08	0.07	0.05
Q-axis inductor	mH	0.17	0.1	0.09	0.07
Electrical time constant	ms	8.7	9.5	10.7	12.4
Rotor inertia	$\times 10^{-4} kg \cdot m^2$	12.1	17.5	23.7	31.2
Weight	kg	5.2	6.6	8	10
Length-L	mm	130	146	164	186
Number of Poles		10			
Encoder resolution		17bit			
Insulation level		F(155℃)			
Protection level		IP54			
Usage environment		Temperature：-20℃～+40℃（No icing）Humidity：<90%RH(No condensation)			
Power Cable	1 U Red	2 V White	3 W Black	4 PE Yellow-Green	
Absolute encoder cable	1 / /	2 E- White	3 E+ Brown	4 SD- Yellow	5 0V Black	6 SD+ Blue	7 5V Red	8 / /	9 / /	10 PE Shield

