

36RBL 系列无刷直流电机

36RBL Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.02mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	15N@10mm from the flange
最大轴向负载Max. Axial Force	10N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



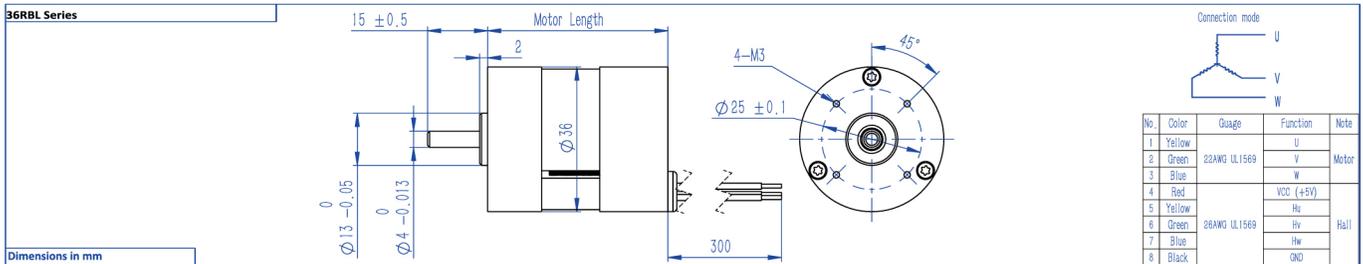
可供定制Customization:

客户定制电压, 电性能, 出轴, 安装面, 引出线等。Customized Voltage, Winding, Shaft, Mounting, and Lead Configurations 以及热保护, 防水等级, 耐高温等级。Options for Thermal Protection, IP Grade, High Temperature Insulation

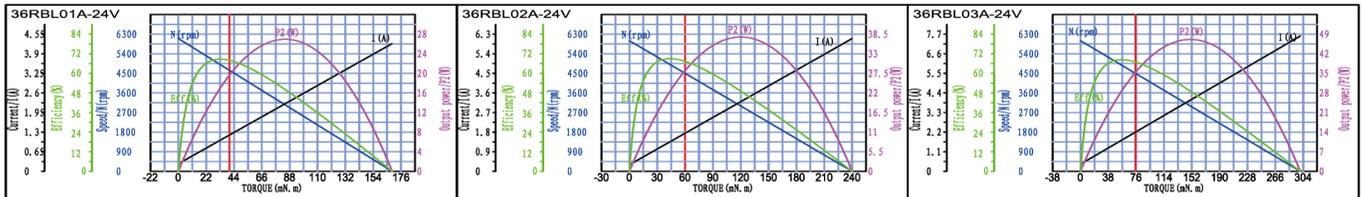
规格参数Technical Specification

型号Model	36RBL01A	36RBL02A	36RBL03A
相数Number of Phase	3		
极数 Number of Pole	4 (8)		
额定电压Voltage	Vdc 24v(可定制12v 到60v); 24v(Option for 12v up to 60vdc)		
空载转速No load Speed	rpm 6100	6000	6000
额定力矩Rated Torque	mN.m 36	60	75
额定转速Rated Speed	rpm 4800	4500	4500
额定电流Rated Current	A 1.1	1.75	2.2
额定功率Rated Power	W 18.1	28.3	35.3
电机重量Weight	g 185	210	235
机身长度Motor Length	mm 45	55	65

图纸Drawing:



力矩曲线Speed-Torque Curve:



42BLS 系列方形无刷直流电机

42BLS Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Delta
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.02mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	28N@20mm from the flange
最大轴向负载Max. Axial Force	10N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



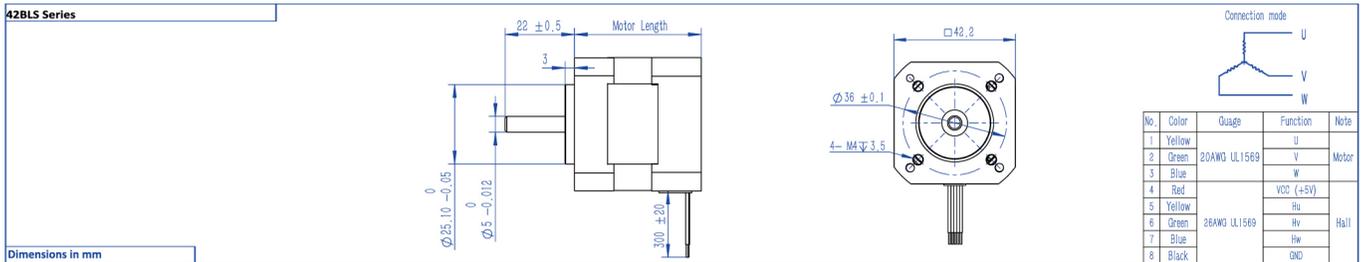
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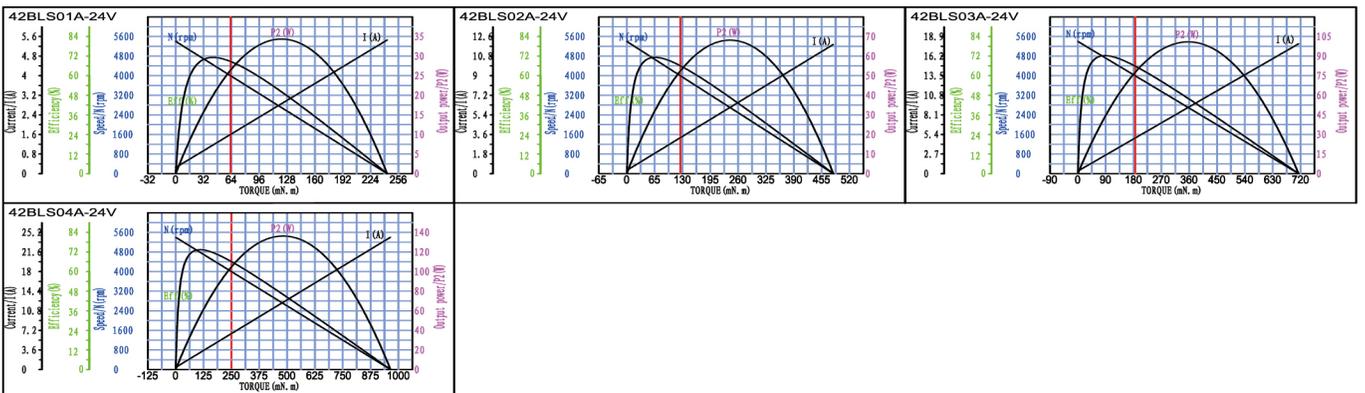
规格参数Technical Specification

型号Model	42BLS01A	42BLS02A	42BLS03A	42BLS04A
相数Number of Phase	3			
极数 Number of Pole	8			
额定电压Voltage	Vdc 24v(可定制12v 到120v); 24v(Option for 12v up to 120vdc)			
空载转速No Load Speed	rpm 5400	rpm 5400	rpm 5400	rpm 5300
额定力矩Rated Torque	mN.m 63	mN.m 125	mN.m 185	mN.m 250
额定转速Rated Speed	rpm 4000	rpm 4000	rpm 4000	rpm 4000
额定电流Rated Current	A 1.7	A 3.4	A 5	A 6.5
额定功率Rated Power	W 26.4	W 52.4	W 77.5	W 105
电机重量Weight	kg 0.30	kg 0.45	kg 0.60	kg 0.75
机身长度Motor Length	mm 41	mm 61	mm 81	mm 101

图纸Drawing:



力矩曲线Speed-Torque Curve:



42RBL系列圆形无刷直流电机

42RBL Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	28N@20mm from the flange
最大轴向负载Max. Axial Force	10N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



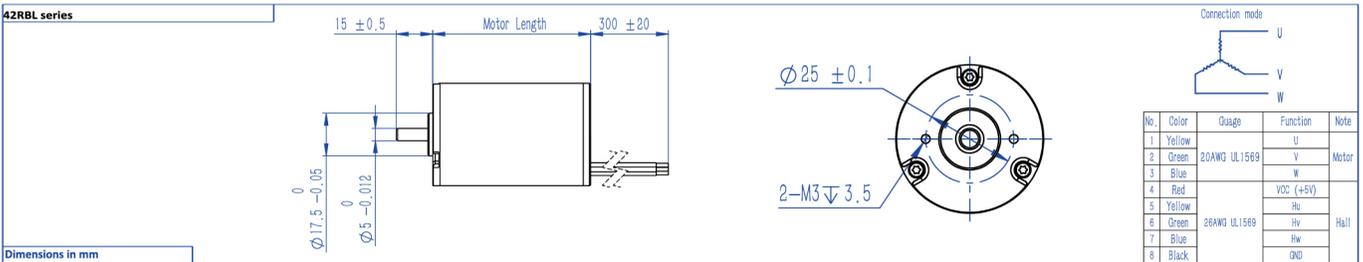
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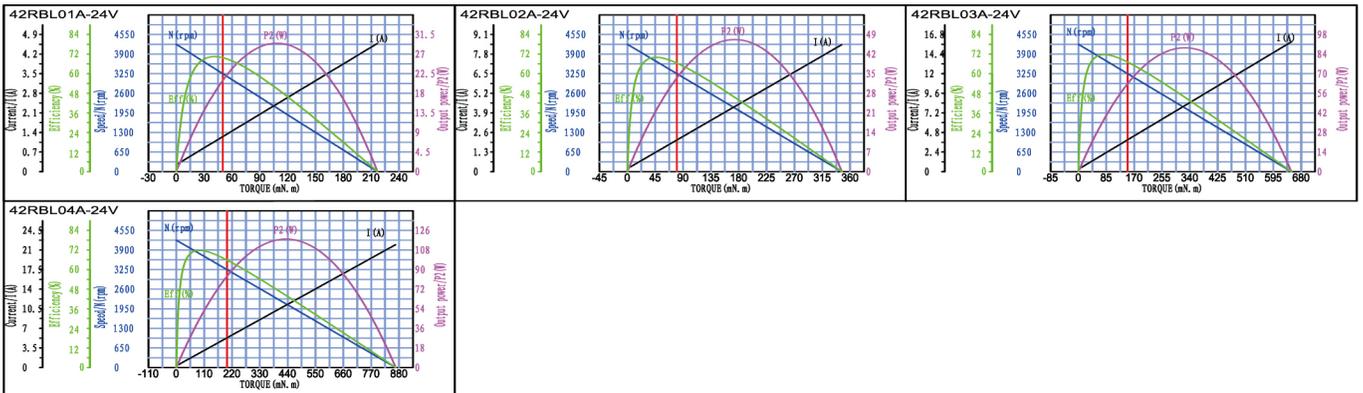
规格参数Technical Specification

型号Model	42RBL01A	42RBL02A	42RBL03A	42RBL04A
相数Number of Phase	3			
极数 Number of Pole	8			
额定电压Voltage	Vdc 24v(可定制12v 到120v); 24v(Option for 12v up to 120 vdc)			
空载转速No Load Speed	rpm 5200	rpm 5200	rpm 5200	rpm 5200
额定力矩Rated Torque	mN.m 50	mN.m 80	mN.m 150	mN.m 200
额定转速Rated Speed	rpm 4000	rpm 4000	rpm 4000	rpm 4000
额定电流Rated Current	A 1.3	A 2.1	A 3.9	A 5.3
额定功率Rated Power	W 21	W 33.5	W 62.8	W 83.8
电机重量Weight	kg 0.32	kg 0.4	kg 0.6	kg 0.7
机身长度Motor Length	mm 50	mm 60	mm 85	mm 93

图纸Drawing:



力矩曲线Speed-Torque Curve:



42RBL-N系列加强型42mm无刷直流电机

42RBL-N Series Enhanced Torque 42mm Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	28N@20mm from the flange
最大轴向负载Max. Axial Force	10N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



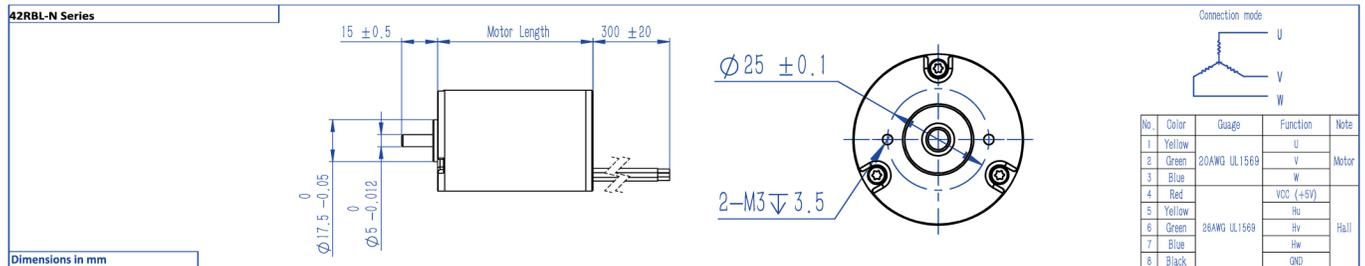
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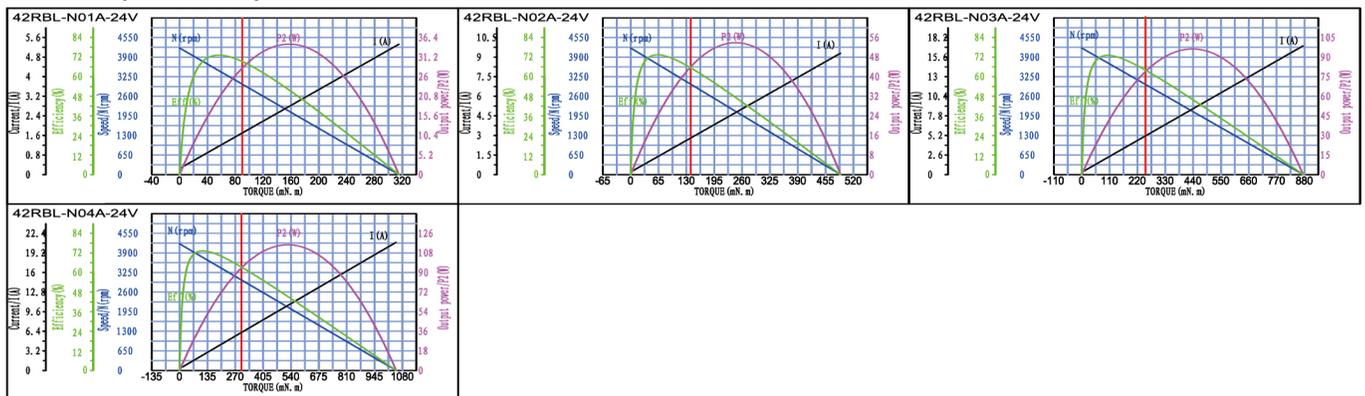
规格参数Technical Specification

型号Model	42RBL-N01A	42RBL-N02A	42RBL-N03A	42RBL-N04A
相数Number of Phase	3			
极数 Number of Pole	8			
额定电压Voltage	24v(可定制12v 到120v); 24v(Option for 12v up to 120vdc)			
空载转速No Load Speed	rpm 4200	4200	4200	4200
额定力矩Rated Torque	mN.m 90	140	250	300
额定转速Rated Speed	rpm 3000	3000	3000	3000
额定电流Rated Current	A 1.7	2.8	5.2	6.5
额定功率Rated Power	W 28.3	44	78.5	94.2
电机重量Weight	kg 0.32	0.4	0.6	0.7
机身长度Motor Length	mm 50	60	85	93

图纸Drawing:



力矩曲线Speed-Torque Curve:



52RBL系列无刷直流电机

52RBL Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@450g
轴向间隙End Play	0.025mm@450g
最大径向负载Max. Radial Force	100N@10mm from the flange
最大轴向负载Max. Axial Force	45N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



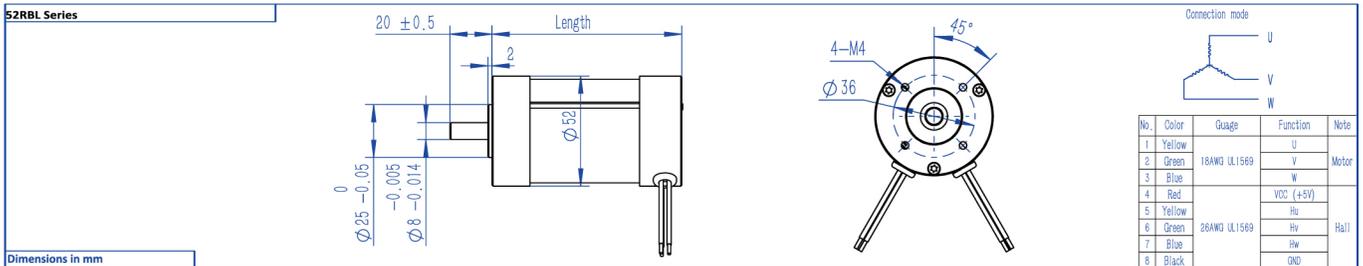
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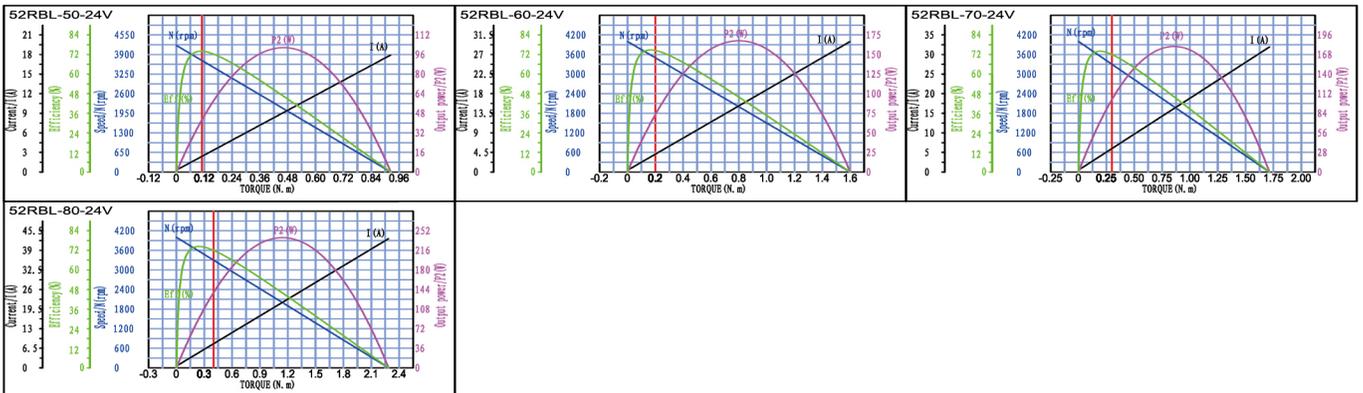
规格参数Technical Specification

型号Model	52RBL-50	52RBL-60	52RBL-70	52RBL-80
相数Number of Phase	3			
极数 Number of Pole	4 (可选8; Option for 8)			
额定电压Voltage	24v(可定制12v 到230v); 24v(Option for 12v up to 230vdc)			
空载转速No Load Speed	rpm	4200	4000	4000
额定力矩Rated Torque	N.m	0.11	0.20	0.40
额定转速Rated Speed	rpm	3700	3500	3300
额定电流Rated Current	A	2.5	4.3	8.4
额定功率Rated Power	W	43	73	138
电机重量Weight	kg	0.6	0.7	0.9
机身长度Motor Length	mm	50	60	80

图纸Drawing:



力矩曲线Speed-Torque Curve:



57HBL系列无刷直流电机

57HBL Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@460g
轴向间隙End Play	0.025mm@4000g
最大径向负载Max. Radial Force	115N@10mm from the flange
最大轴向负载Max. Axial Force	45N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



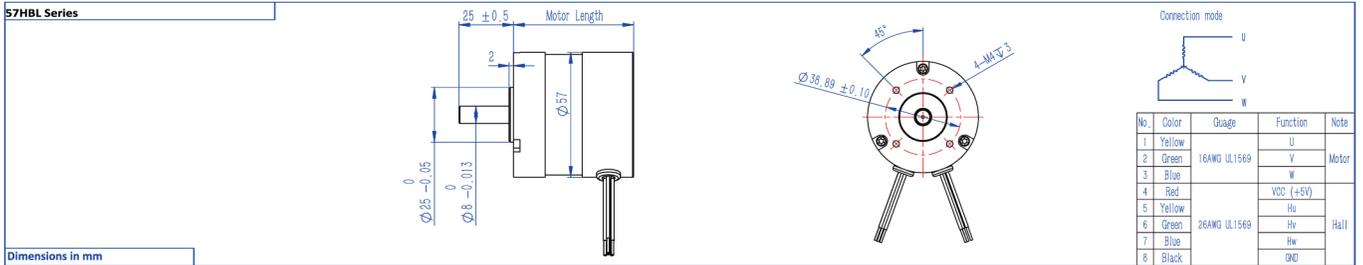
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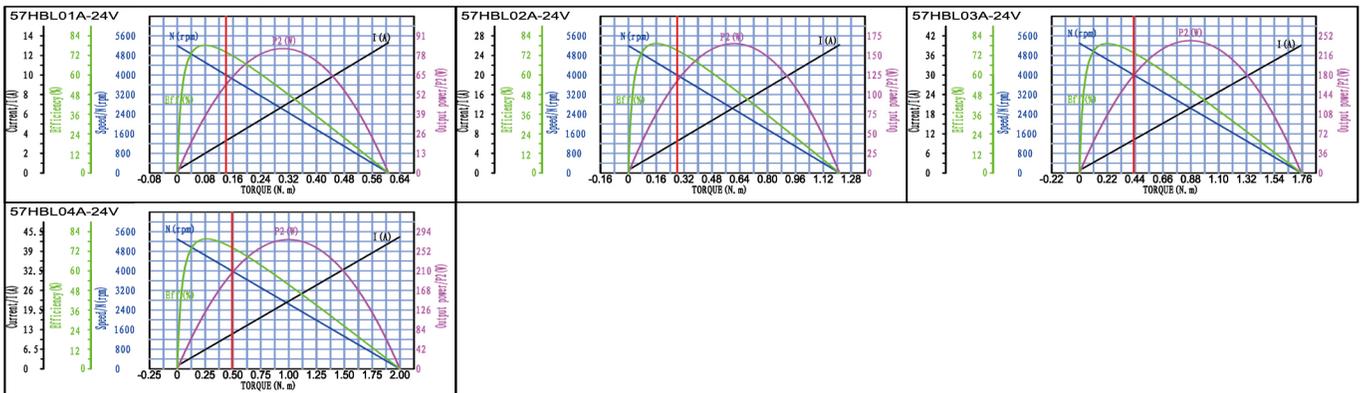
规格参数Technical Specification

型号Model	57HBL01A	57HBL02A	57HBL03A	57HBL04A	
相数Number of Phase	3				
极数 Number of Pole	4 (可选8; Option for 8)				
额定电压Voltage	Vdc 24v(可定制12v 到230v); 24v(Option for 12v up to 230vdc)				
空载转速No Load Speed	rpm	5200	5200	5300	5300
额定转矩Rated Torque	N.m	0.14	0.28	0.43	0.49
额定转速Rated Speed	rpm	4000	4000	4000	4000
额定电流Rated Current	A	3.3	6.7	10.5	11.5
额定功率Rated Power	W	59	117	180	205
电机重量Weight	kg	0.5	0.8	1.1	1.5
机身长度Motor Length	mm	55	75	95	115

图纸Drawing:



力矩曲线Speed-Torque Curve:



57HBL-N系列加强型57mm无刷直流电机 57HBL-N Series Enhanced Torque 57mm Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@460g
轴向间隙End Play	0.025mm@4000g
最大径向负载Max. Radial Force	115N@10mm from the flange
最大轴向负载Max. Axial Force	45N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



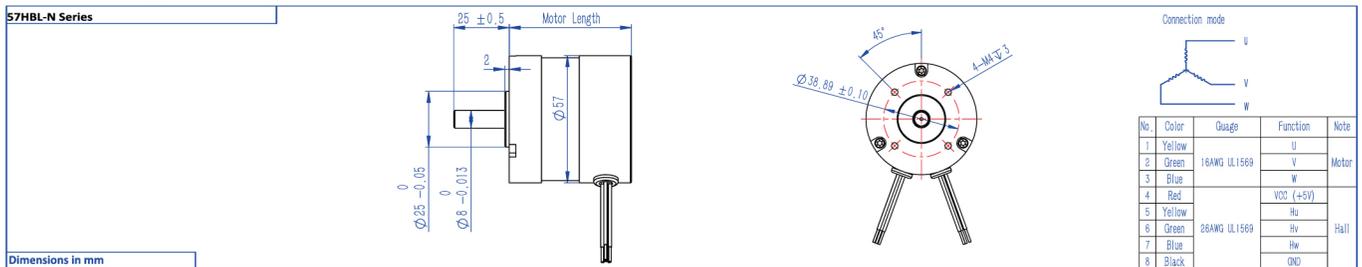
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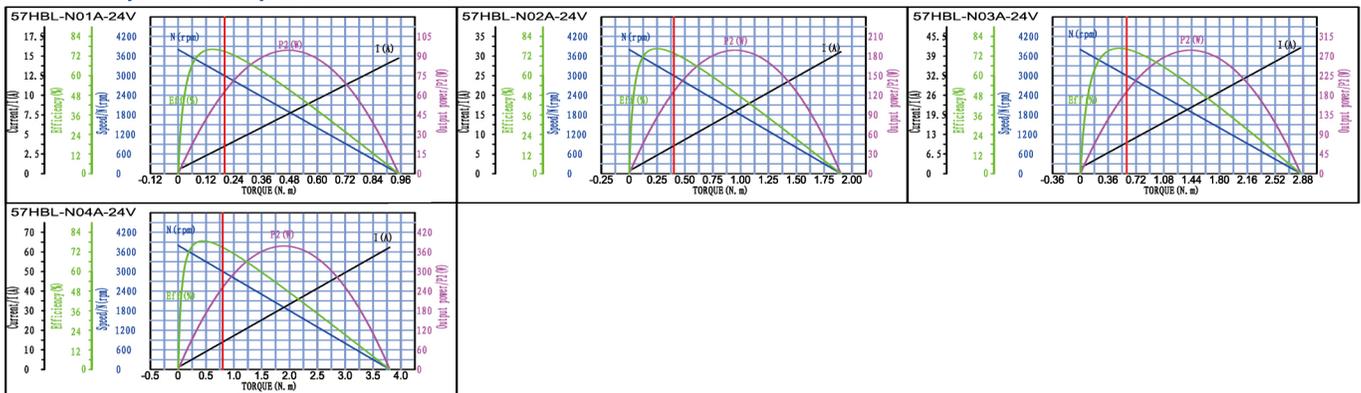
规格参数Technical Specification

型号Model	57HBL-N01A	57HBL-N02A	57HBL-N03A	57HBL-N04A
相数Number of Phase	3			
极数 Number of Pole	4 (可选8; Option for 8)			
额定电压Voltage	24v (可定制12v 到230v); 24v (Option for 12v up to 230vdc)			
空载转速No Load Speed	3800	3800	3800	3800
额定力矩Rated Torque	0.2	0.4	0.6	0.8
额定转速Rated Speed	3000	3000	3000	3000
额定电流Rated Current	3.5	7.2	10.5	14.0
额定功率Rated Power	63	126	188	251
电机重量Weight	0.5	0.8	1.1	1.5
机身长度Motor Length	55	75	95	115

图纸Drawing:



力矩曲线Speed-Torque Curve:

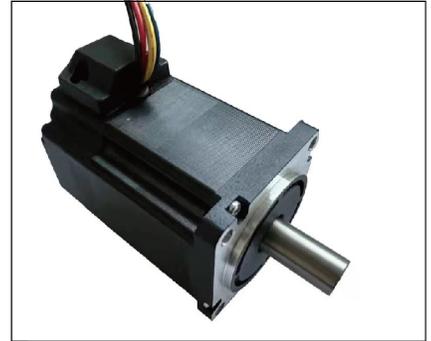


60BLS系列无刷直流电机

60BLS Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@450g
轴向间隙End Play	0.025mm@450g
最大径向负载Max. Radial Force	115N@10mm from the flange
最大轴向负载Max. Axial Force	45N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



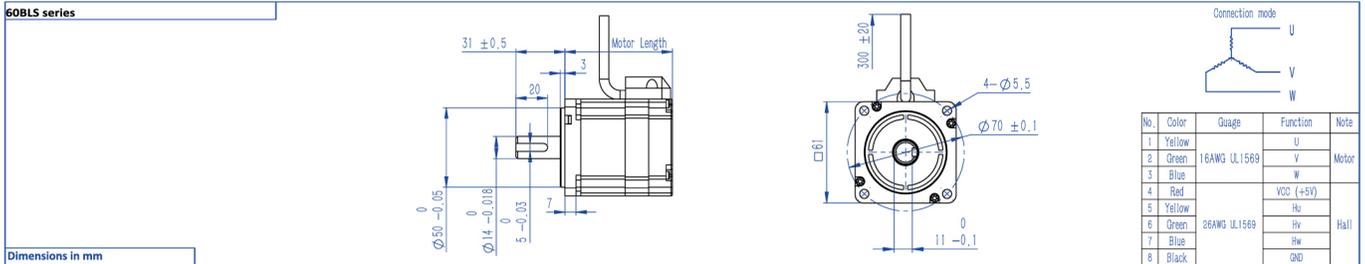
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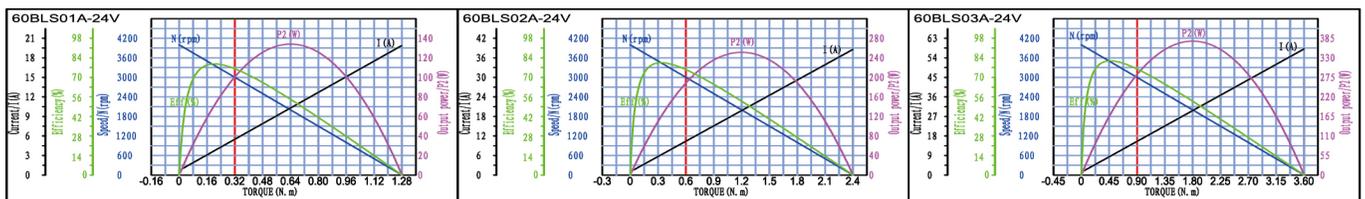
规格参数Technical Specification

型号Model		60BLS01A	60BLS02A	60BLS03A
相数Number of Phase		3		
极数 Number of Pole		8		
额定电压Voltage	Vdc	24v(可定制12v 到230v); 24v(Option for 12v up to 230vdc)		
空载转速No Load Speed	rpm	4000	4000	4000
额定力矩Rated Torque	N.m	0.32	0.6	0.9
额定转速Rated Speed	rpm	3000	3000	3000
额定电流Rated Current	A	5.5	10.4	15.5
额定功率Rated Power	W	101	188	283
电机重量Weight	kg	0.9	1.2	1.5
机身长度Motor Length	mm	68	88	108

图纸Drawing:



力矩曲线Speed-Torque Curve:



63RBL 系列无刷直流电机

63RBL Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@450g
轴向间隙End Play	0.025mm@450g
最大径向负载Max. Radial Force	115N@10mm from the flange
最大轴向负载Max. Axial Force	45N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



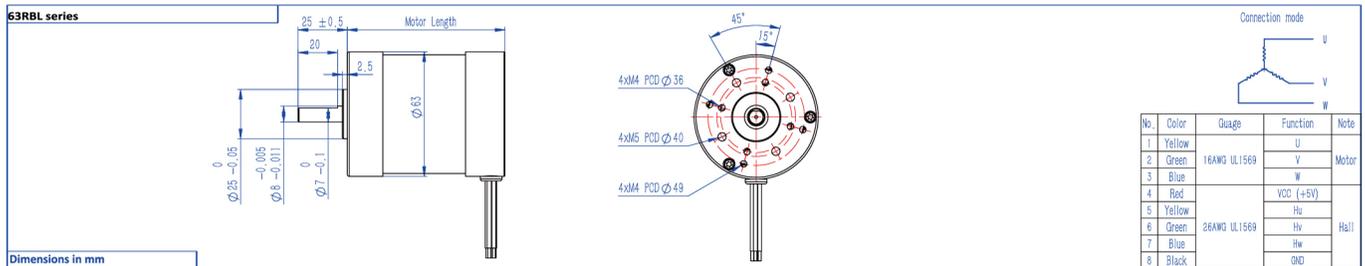
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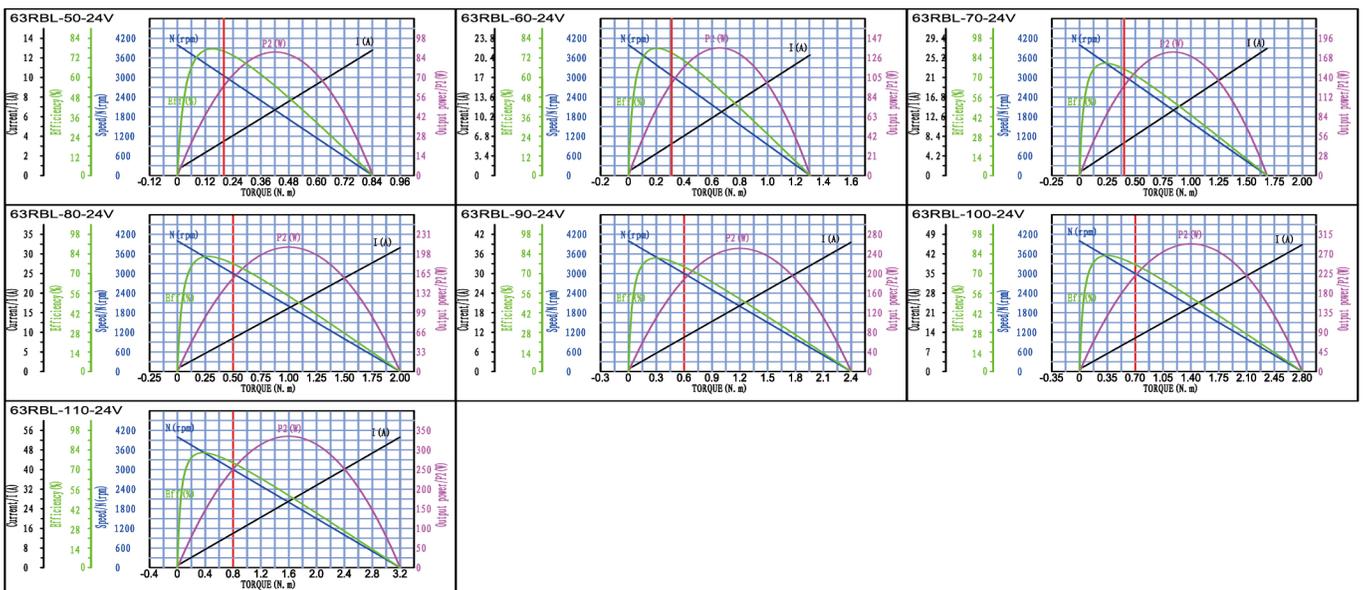
规格参数Technical Specification

型号Model	63RBL-50	63RBL-60	63RBL-70	63RBL-80	63RBL-90	63RBL-100	63RBL-110
相数Number of Phase	3						
极数 Number of Pole	4 (Option 8)						
额定电压Voltage	Vdc 24v (可定制12v到230v); 24v (Option for 12v up to 230vdc)						
空载转速No Load Speed	rpm	4000	4000	4000	4000	4000	4000
额定力矩Rated Torque	N.m	0.2	0.31	0.4	0.5	0.6	0.8
额定转速Rated Speed	rpm	3050	3050	3050	3000	3000	3000
额定电流Rated Current	A	3.5	5.5	7.0	8.5	10.5	14
额定功率Rated Power	W	64	99	128	157	188	251
电机重量Weight	kg	0.80	1.0	1.2	1.4	1.6	2.0
机身长度Motor Length	mm	50	60	70	80	90	110

图纸Drawing:



力矩曲线Speed-Torque Curve:



70BLS系列无刷直流电机

70BLS Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.05mm
径向间隙Radial Play	0.025mm@450g
轴向间隙End Play	0.025mm@450g
最大径向负载Max. Radial Force	115N@10mm from the flange
最大轴向负载Max. Axial Force	45N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



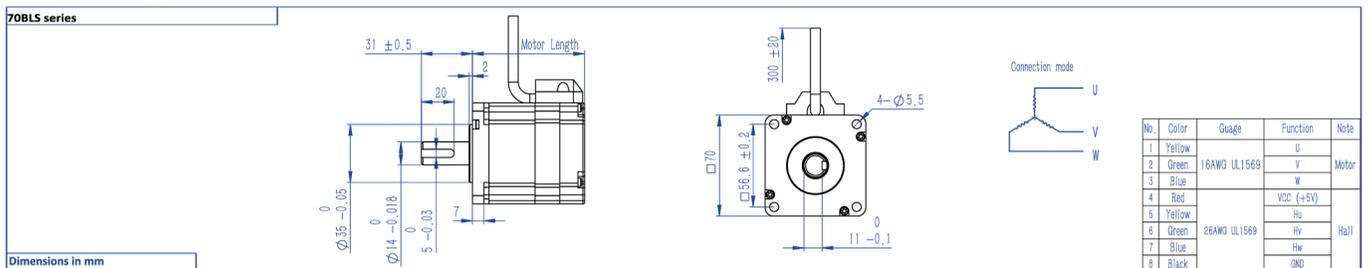
可供定制Customization:

客户定制电压, 电性能, 出轴, 安装面, 引出线等。Customized Voltage, Winding, Shaft, Mounting, and Lead Configurations 以及热保护, 防水等级, 耐高温等级。Options for Thermal Protection, IP Grade, High Temperature Insulation

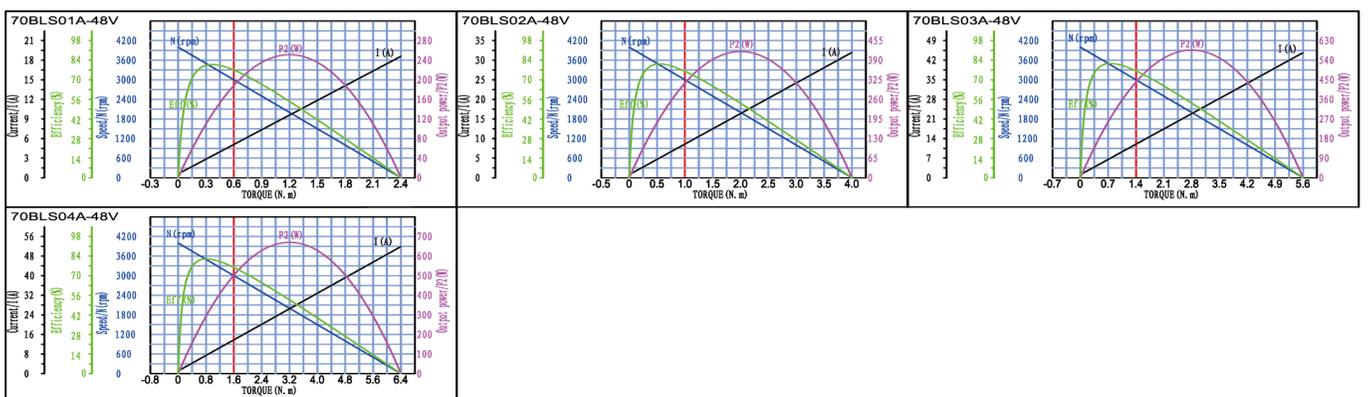
规格参数Technical Specification

型号Model	70BLS01A	70BLS02A	70BLS03A	70BLS04A
相数Number of Phase	3			
极数 Number of Pole	8			
额定电压Voltage	48v(可定制12v 到230v); 48v(Option for 12v 24v up to 230vdc)			
空载转速No Load Speed	rpm 4000	4000	4000	4000
额定力矩Rated Torque	N.m 0.6	1.0	1.4	1.6
额定转速Rated Speed	rpm 3000	3000	3000	3000
额定电流Rated Current	A 5.5	8.8	12.5	14.0
额定功率Rated Power	W 188	314	440	503
电机重量Weight	kg 1.4	1.8	2.2	2.6
机身长度Motor Length	mm 70	90	110	120

图纸Drawing:



力矩曲线Speed-Torque Curve:



80RBL系列无刷直流电机

80RBL Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.06mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	115N@10mm from the flange
最大轴向负载Max. Axial Force	45N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



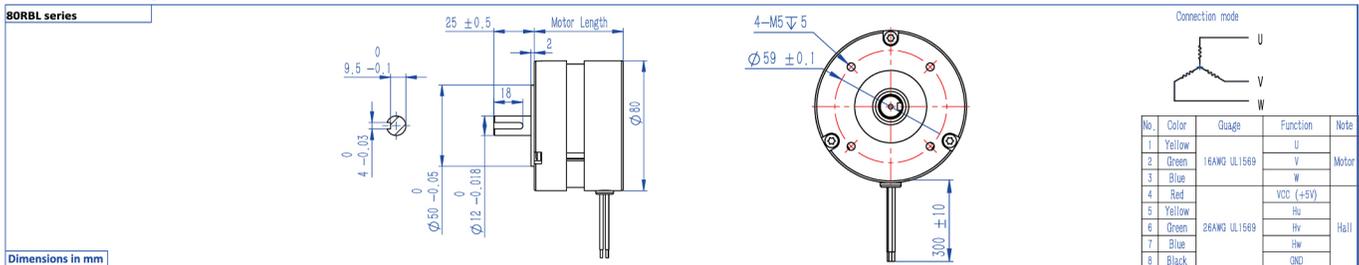
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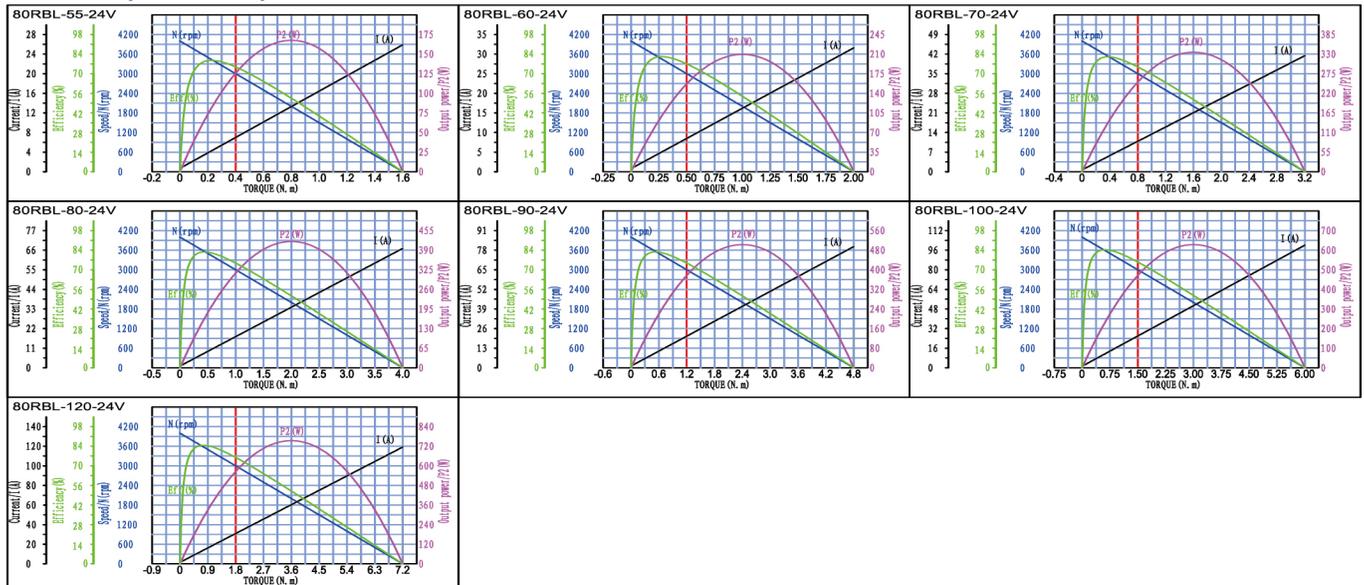
规格参数Technical Specification

型号Model	80RBL-55	80RBL-60	80RBL-70	80RBL-80	80RBL-90	80RBL-100	80RBL-120	
相数Number of Phase	3							
极数 Number of Pole	4 (Option 8)							
额定电压Voltage	Vdc 24v (可定制12v 到230v); 24v (Option for 12v 36v 48v up to 230vdc)							
空载转速No Load Speed	rpm	4000	4000	4000	4000	4000	4000	4000
额定力矩Rated Torque	N.m	0.4	0.5	0.8	1.0	1.2	1.5	1.8
额定转速Rated Speed	rpm	3000	3000	3000	3000	3000	3000	3000
额定电流Rated Current	A	7	9	14	17.5	21	26	31
额定功率Rated Power	W	126	157	251	314	377	471	565
电机重量Weight	kg	1.1	1.2	1.5	1.8	2.1	2.4	3.0
机身长度Motor Length	mm	55	60	70	80	90	100	120

图纸Drawing:



力矩曲线Speed-Torque Curve:



80BLS系列无刷直流电机

80BLS Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.06mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	115N@10mm from the flange
最大轴向负载Max. Axial Force	45N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



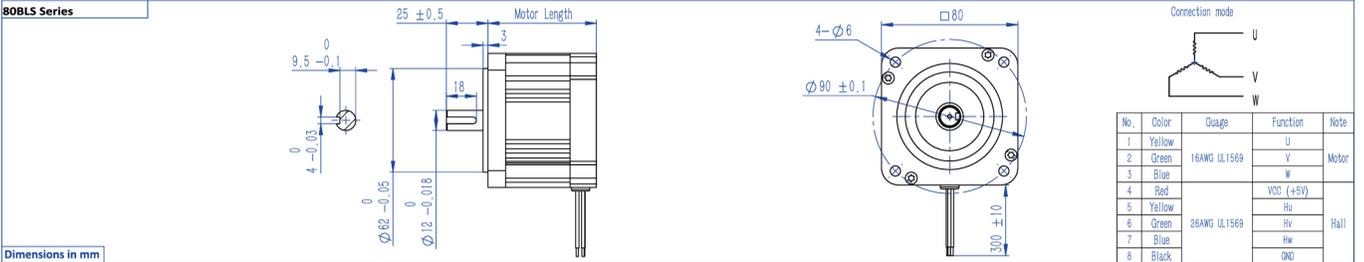
可供定制Customization:

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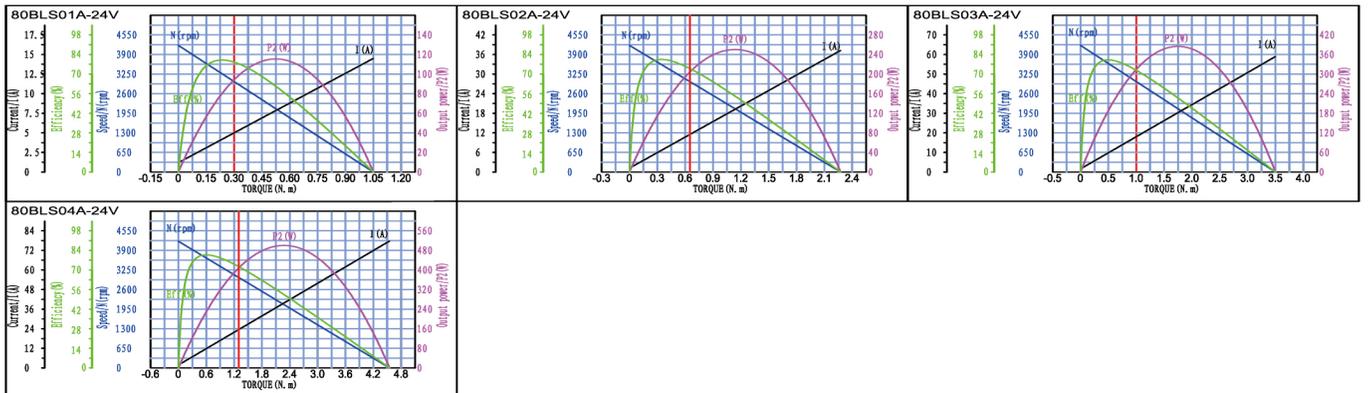
规格参数Technical Specification

型号Model	80BLS01A	80BLS02A	80BLS03A	80BLS04A
相数Number of Phase	3			
极数 Number of Pole	4 (Option 8)			
额定电压Voltage	Vdc 24v(可定制12v到230v); 24v(Option for 12v up to 230vdc)			
空载转速No Load Speed	rpm 4200	rpm 4200	rpm 4200	rpm 4200
额定力矩Rated Torque	N.m 0.3	N.m 0.65	N.m 1.0	N.m 1.3
额定转速Rated Speed	rpm 3000	rpm 3000	rpm 3000	rpm 3000
额定电流Rated Current	A 5.5	A 12.5	A 18.5	A 24
额定功率Rated Power	W 94	W 204	W 314	W 408
电机重量Weight	kg 1.6	kg 2.2	kg 3	kg 3.8
机身长度Motor Length	mm 85	mm 105	mm 125	mm 145

图纸Drawing:



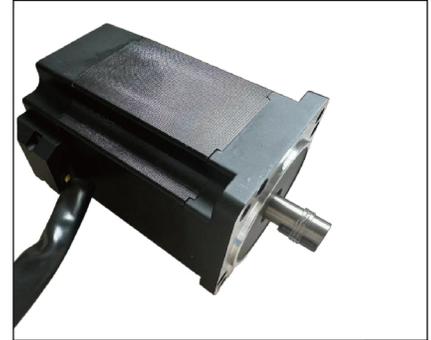
力矩曲线Speed-Torque Curve:



86BLS系列无刷直流电机 86BLS Series Nema 34 Flange Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.06mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	220N@10mm from the flange
最大轴向负载Max. Axial Force	60N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



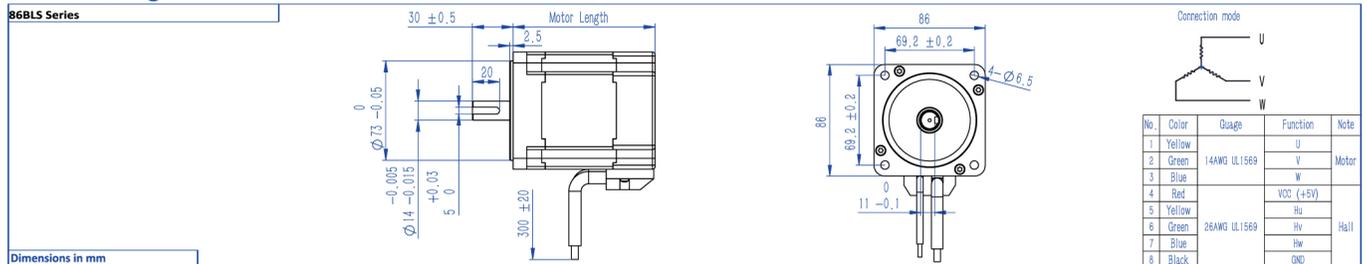
可供定制Customization:

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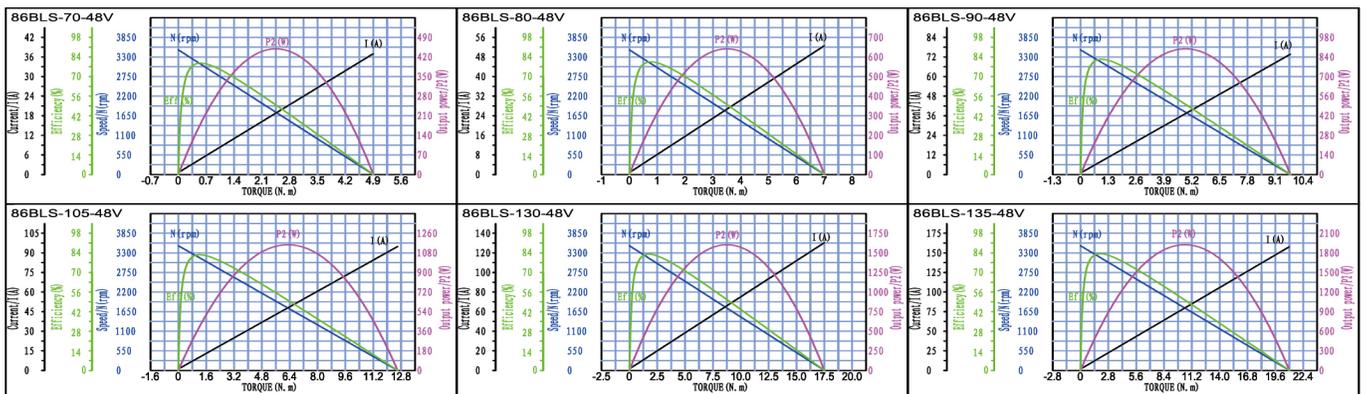
规格参数Technical Specification

型号Model	86BLS-70	86BLS-80	86BLS-90	86BLS-105	86BLS-130	86BLS-135
相数Number of Phase	3					
极数 Number of Pole	8					
额定电压Voltage	48v (可定制12v 到310v); 48v (Option for 12v 24v up to 310vdc)					
空载转速No Load Speed	rpm	3500	3500	3500	3500	3500
额定力矩Rated Torque	N.m	0.7	1.0	1.4	1.8	3.0
额定转速Rated Speed	rpm	3000	3000	3000	3000	3000
额定电流Rated Current	A	5.8	8.2	11.3	14.5	24
额定功率Rated Power	W	220	314	440	565	942
电机重量Weight	kg	1.7	2.1	2.5	3.1	4.1
机身长度Motor Length	mm	70	80	90	105	135

图纸Drawing:



力矩曲线Speed-Torque Curve:



90RBL系列无刷直流电机

90RBL Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.06mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	220N@10mm from the flange
最大轴向负载Max. Axial Force	60N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



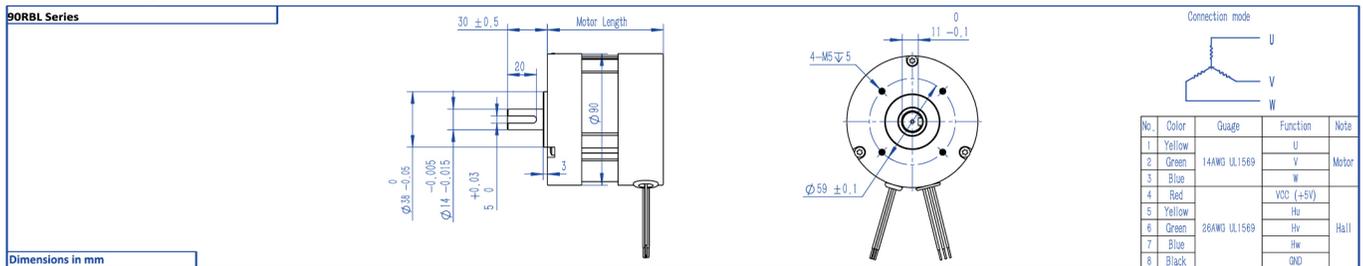
可供定制Customization:

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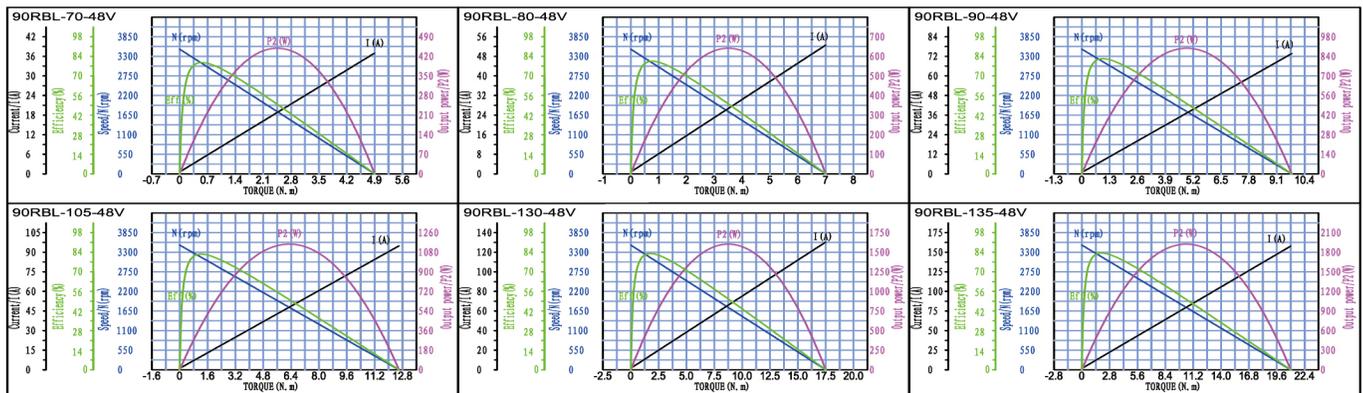
规格参数Technical Specification

型号Model	90RBL-70	90RBL-80	90RBL-90	90RBL-105	90RBL-130	90RBL-135
相数Number of Phase	3					
极数 Number of Pole	8					
额定电压Voltage	Vdc 48v (可定制12v 到310v); 48v (Option for 12v 24v up to 310vdc)					
空载转速No Load Speed	rpm 3500	3500	3500	3500	3500	3500
额定力矩Rated Torque	N.m 0.7	1.0	1.4	1.8	2.5	3.0
额定转速Rated Speed	rpm 3000	3000	3000	3000	3000	3000
额定电流Rated Current	A 5.8	8.2	11.3	14.5	20	24
额定功率Rated Power	W 220	314	440	565	785	942
电机重量Weight	kg 1.7	2.1	2.5	3.1	4.1	4.3
机身长度Motor Length	mm 70	80	90	105	130	135

图纸Drawing:



力矩曲线Speed-Torque Curve:



110BLS系列无刷直流电机

110BLS Series Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.06mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	300N@10mm from the flange
最大轴向负载Max. Axial Force	60N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



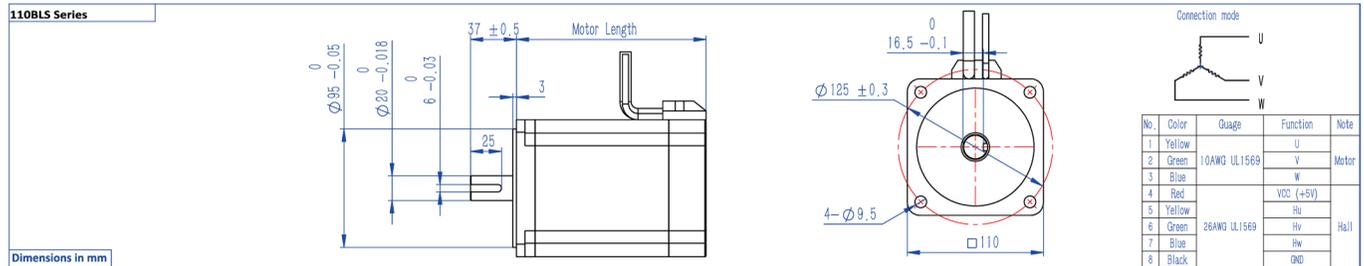
可供定制Customization:

客户定制电压, 电性能, 出轴, 安装面, 引出线等。Customized Voltage, Winding, Shaft, Mounting, and Lead Configurations 以及热保护, 防水等级, 耐高温等级。Options for Thermal Protection, IP Grade, High Temperature Insulation

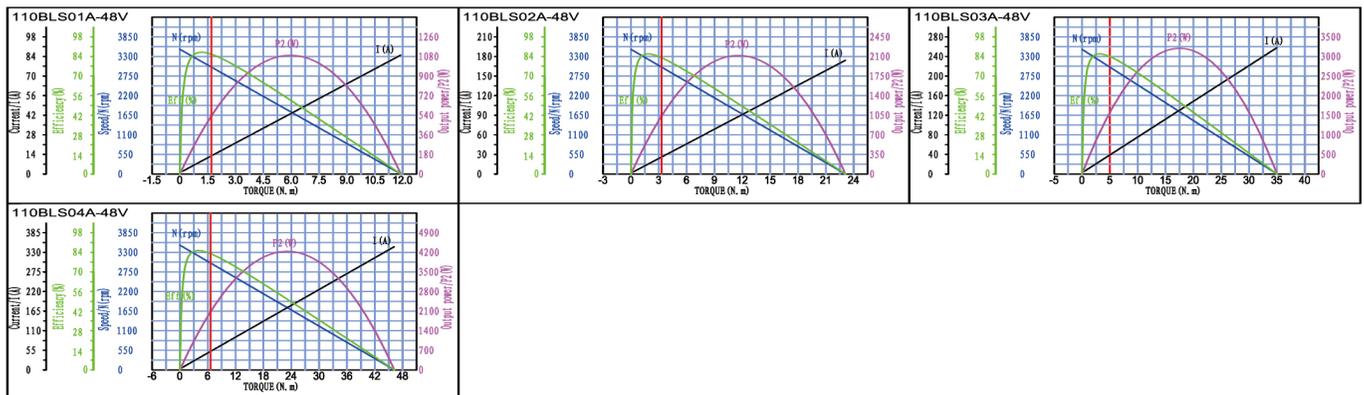
规格参数Technical Specification

型号Model		110BLS01A	110BLS02A	110BLS03A	110BLS04A
相数Number of Phase		3			
极数 Number of Pole		8			
额定电压Voltage	Vdc	48v(可定制12v 到310v); 48v(Option for 12v up to 310vdc)			
空载转速No Load Speed	rpm	3500	3500	3500	3500
额定转矩Rated Torque	N.m	1.7	3.3	5	6.6
额定转速Rated Speed	rpm	3000	3000	3000	3000
额定电流Rated Current	A	13	26	39	52
额定功率Rated Power	W	534	1037	1571	2073
电机重量Weight	kg	4.2	5.5	6.8	8.1
机身长度Motor Length	mm	93	123	153	183

图纸Drawing:



力矩曲线Speed-Torque Curve:



42RBL-IE系列内置驱动无刷直流电机

42RBL-IE Series Controller Integrated Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@450g
轴向间隙End Play	0.08mm@450g
最大径向负载Max. Radial Force	28N@20mm from the flange
最大轴向负载Max. Axial Force	10N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



可供定制Customization:

客户定制电压, 电性能, 出轴, 安装面, 引出线等。Customized Voltage, Winding, Shaft, Mounting, and Lead Configurations

规格参数Technical Specification

型号Model	42RBL01-IE	42RBL02-IE	42RBL03-IE
相数Number of Phase		3	
极数 Number of Pole		8	
额定电压Voltage	Vdc	24v	
空载转速No Load Speed	rpm	4000	4000
额定力矩Rated Torque	m.Nm	50	150
额定转速Rated Speed	rpm	3000	3000
额定电流Rated Current	A	0.9	2.7
额定功率Rated Power	W	16	47
电机重量Weight	kg	0.32	0.7
机身长度Motor Length	mm	52	87

机械尺寸&控制图 Dimensions & Control Diagram

Dimensions in mm

Wiring Diagram

No.	Types	Items	Colours	Gauges	Functions	Remarks
1	Power supply	V+	Red	18AWG	DC (Power supply)	
2		V-	Black	18AWG	GND(Power ground)	
3	Controllers	FG	Orange	26AWG	FG(5V) , Output speed signal	
4		F/R	White	26AWG	L: CW ; H: CCW	if F/R(4#) is connected to GND(6#), motor changes direction
5		5V	Red	26AWG	+5V DC output	
6		GND	Black	26AWG	Signal ground	
7		PWM/SV	Blue	26AWG	About 20KHz, 0~100%; Push-pull 5v	if PWM(7#) is connected to 5v(5#), motor run at 100% speed

57HBL-IE系列内置驱动无刷直流电机

57HBL-IE Series Controller Integrated Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@450g
轴向间隙End Play	0.025mm@450g
最大径向负载Max. Radial Force	100N@10mm from the flange
最大轴向负载Max. Axial Force	15N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



可供定制Customization:

客户定制电压, 电性能, 出轴, 安装面, 引出线等。 Customized Voltage, Winding, Shaft, Mounting, and Lead Configurations

规格参数Technical Specification

型号Model	57HBL01-IE	57HBL02-IE	57HBL03-IE
相数Number of Phase	3		
极数 Number of Pole	4 (Option 8)		
额定电压Voltage	Vdc	24v	
空载转速No Load Speed	rpm	4000	4000
额定力矩Rated Torque	N.m	0.145	0.28
额定转速Rated Speed	rpm	3000	2000
额定电流Rated Current	A	2.5	5
额定功率Rated Power	W	45	88
电机重量Weight	kg	0.55	1.15
机身长度Motor Length	mm	75	95

机械尺寸&控制图 Dimensions & Control Diagram

57HBL-IE series

Wiring Diagram

No.	Types	Items	Colours	Gauges	Functions	Remarks
1	Power supply	V+	Red	16AWG	DC (Power supply)	
2		V-	Black	16AWG	GND(Power ground)	
3	Controllers	FG	Orange	26AWG	FG(5V) , Output speed signal	
4		ST	Green	26AWG	L:Start; H:Stop (Brake)	if ST(4#) is connected to GND(7#), motor stops. if disconnected motor runs
5		F/R	White	26AWG	L: CW ;H:CCW	if F/R(5#) is connected to GND(7#), motor changes direction
6		5V	Red	26AWG	+5V DC output	
7		GND	Black	26AWG	Signal ground	
8		PWM/SV	Blue	26AWG	About 20KHz, 0~100%; Push-pull 5v	if PWM(8#) is connected to 5v(6#), motor run at 100% speed

Dimensions in mm

63RBL-IE系列内置驱动无刷直流电机

63RBL-IE Series Controller Integrated Brushless Dc Motor

常规性能General specification

项目Item	参数Specification
接线样式Winding Type	Star
霍尔作用角度Hall Effect Angle	120° (电气角度electrical angle)
轴向跳动Shaft Run Out	0.025mm
径向间隙Radial Play	0.025mm@450g
轴向间隙End Play	0.025mm@450g
最大径向负载Max. Radial Force	115N@10mm from the flange
最大轴向负载Max. Axial Force	45N
绝缘等级Insulation Class	Class B
介电强度Dielectric Strength	500VDC for one minute
绝缘电阻Insulation Resistance	100MΩ Min.500VDC



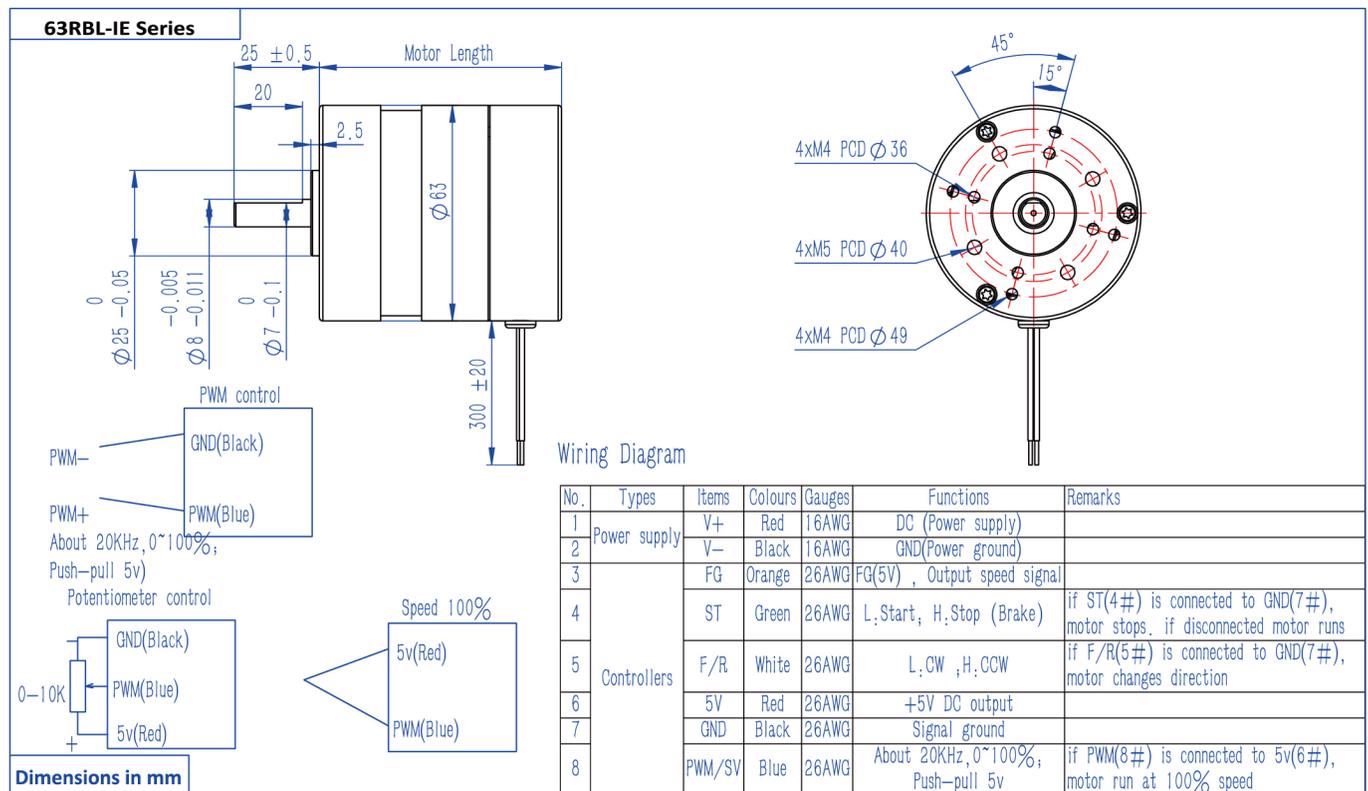
可供定制Customization:

客户定制电压, 电性能, 出轴, 安装面, 引出线等。Customized Voltage, Winding, Shaft, Mounting, and Lead Configurations

规格参数Technical Specification

型号Model		63RBL01-IE	63RBL02-IE	63RBL03-IE	63RBL04-IE
相数Number of Phase		3			
极数 Number of Pole		4 (Option 8)			
额定电压Voltage	Vdc	24v			
空载转速No Load Speed	rpm	4000	4000	4000	3000
额定转矩Rated Torque	N.m	0.2	0.31	0.4	0.5
额定转速Rated Speed	rpm	3050	3050	3000	2500
额定电流Rated Current	A	3.5	5.5	7.0	7.2
额定功率Rated Power	W	64	100	125	130
电机重量Weight	kg	0.80	1.0	1.2	1.4
机身长度Motor Length	mm	70	80	90	100

机械尺寸&控制图 Dimensions & Control Diagram



36JXL50K.36RBL 系列无刷直行星减速电机

36JXL50K.36RBL Series Brushless Dc Planetary Gear Motor

图纸 Drawing

36JXL50K.36RBL Series

Dimensions in mm

Motor Length: L

Shaft length: 300

Shaft diameter: $\phi 28 \pm 0.1$

4-M3 Eqs

Connection mode

No.	Color	Gauge	Function	Note
1	Yellow	22AWG UL1569	U	Motor
2	Green		V	
3	Blue		W	
4	Red	26AWG UL1569	VCC (+5V)	Hall
5	Yellow		Hu	
6	Green		Hv	
7	Blue		Hw	
8	Black		GND	

36RBL电机规格参数36RBL Motor Technical Specification:

型号Model	36RBL01A	36RBL02A	36RBL03A
相数Number of Phase		3	
极数 Number of Pole		4	
额定电压Voltage	V	24v(可定制12v到60v); 24v(Option for 12v up to 60vdc)	
空载转速No Load Speed	rpm	6100	6000
额定力矩Rated Torque	mNm	36	60
额定转速Rated Speed	rpm	4800	4500
额定电流Rated Current	A	1.1	1.75
额定功率Rated Power	W	18.1	28.3
电机重量Weight	g	185	210
机身长度Motor Length	mm	45	55

行星齿轮箱主要性能参数 Planetary Gearbox Specifications

内部圈材料 Ring Material	金属粉末 Powder Metal	输出轴轴承形式 Bearing at Output	滚动轴承Roll bearings	最大允许径向负载(离法兰10mm处) Max. Radial Load (10mm from Flange)	≤ 100N	最大允许轴向负载Max. Shaft Axial Load	≤ 50N	径向间隙 (测量点尽量接近法兰) Radial Play of Shaft (Near to Flange)	≤ 0.07mm	轴向间隙 Axial Play of Shaft	≤ 0.3mm	背隙 (无负载时) Backlash at No-load	≤ 2.5°	输出轴最大承受压力 Max Shaft Press Fit Force	≤ 120N
减速比 Reduction Ratio	额定允许负载 Rated Continuous Torque	瞬间允许负载 Max Momentary Torque	效率 Efficiency	L (mm)	重量 (g) Weight(g)										
1/14 1/19 1/22 1/27 1/35	2.0 N.m	6 N.m	81%	38.4±0.5	240										
1/49 1/59 1/68 1/82 1/95 1/115	4.0 N.m	10 N.m	73%	45.7±0.5	280										
1/181 1/218 1/253 1/305 1/354	5.0 N.m	12 N.m	66%	53.0±0.5	330										
1/426 1/495 1/596															

36JXL50K.36RBL01A行星减速电机主要性能参数36JXL50K.36RBL01A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	14	19	22	27	35	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率Efficiency		81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	435.7	321.1	277.3	225.9	174.3	124.5	103.4	89.7	74.4	64.2	53.0	33.7	28.0	24.1	20.0	17.2	14.3	12.3	10.2
额定力矩Rated Torque	Nm	0.4	0.55	0.64	0.8	1.0	1.3	1.6	1.8	2.2	2.5	3.0	4.3	5.0	5.0	5.0	5.0	5.0	5.0	5.0
额定转速Rated Speed	Rpm	342.9	252.6	218.2	177.8	137.1	98.0	81.4	70.6	58.5	50.5	41.7	26.5	22.0	19.0	15.7	13.6	11.3	9.7	8.1

36JXL50K.36RBL02A行星减速电机主要性能参数36JXL50K.36RBL02A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	14	19	22	27	35	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率Efficiency		81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	428.6	315.8	272.7	222.2	171.4	122.4	101.7	88.2	73.2	63.2	52.2	33.1	27.5	23.7	19.7	16.9	14.1	12.1	10.1
额定力矩Rated Torque	Nm	0.7	0.9	1.1	1.3	1.7	2.1	2.6	3.0	3.6	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
额定转速Rated Speed	Rpm	321.4	236.8	204.5	166.7	128.6	91.8	76.3	66.2	54.9	47.4	39.1	24.9	20.6	17.8	14.8	12.7	10.6	9.1	7.6

36JXL50K.36RBL03A行星减速电机主要性能参数36JXL50K.36RBL03A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	14	19	22	27	35	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率Efficiency		81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	428.6	315.8	272.7	222.2	171.4	122.4	101.7	88.2	73.2	63.2	52.2	33.1	27.5	23.7	19.7	16.9	14.1	12.1	10.1
额定力矩Rated Torque	Nm	0.9	1.2	1.3	1.6	2.0	2.7	3.2	3.7	4.0	4.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
额定转速Rated Speed	Rpm	321.4	236.8	204.5	166.7	128.6	91.8	76.3	66.2	54.9	47.4	39.1	24.9	20.6	17.8	14.8	12.7	10.6	9.1	7.6

42JXL100K.42RBL 系列无刷直流行星减速电机 42JXL100K.42RBL Series Brushless Dc Planetary Gear Motor

图纸 Drawing

Dimensions in mm

Connection mode

No.	Color	Gauge	Function	Note
1	Yellow	20AWG UL1569	U	Motor
2	Green		V	
3	Blue		W	
4	Red	26AWG UL1569	VCC (+5V)	Hall
5	Yellow		Hu	
6	Green		Hv	
7	Blue	Hw		
8	Black		GND	

42RBL电机规格参数 42RBL Motor Technical Specification:

型号 Model		42RBL01A	42RBL02A	42RBL03A	42RBL04A
相数 Number of Phase		3			
极数 Number of Pole		8			
额定电压 Voltage	V	24v(可定制12v 到120v); 24v(Option for 12v up to 120 vdc)			
空载转速 No Load Speed	rpm	5200	5200	5200	5200
额定转矩 Rated Torque	mNm	50	80	150	200
额定转速 Rated Speed	rpm	4000	4000	4000	4000
额定电流 Rated Current	A	1.3	2.1	3.9	5.3
额定功率 Rated Power	W	21	33.5	62.8	83.8
电机重量 Weight	kg	0.32	0.4	0.6	0.7
机身长度 Motor Length	mm	50	60	85	93

行星齿轮箱主要性能参数 Planetary Gearbox Specifications

内齿圈材料 Ring Material	金属粉末 Powder Metal	减速比 Reduction Ratio	额定允许负载 Rated Continuous Torque	瞬间允许负载 Max Momentary Torque	效率 Efficiency	L (mm)	重量 (g) Weight(g)
输出轴承形式 Bearing at Output	滚动轴承 Ball bearings	1/3.7 1/5.2	1.0 N.m	3.0 N.m	90%	31.5 ± 0.5	244
最大允许径向负载(离法兰12mm处) Max. Radial Load (12mm from Flange)	≤ 200N	1/14 1/19 1/27	4.0 N.m	12 N.m	81%	42.1 ± 0.5	314
最大允许轴向负载 Max. Shaft Axial Load	≤ 100N	1/49 1/59 1/68	8.0 N.m	25 N.m	73%	52.5 ± 0.5	433
径向间隙(测量点尽量接近法兰) Radial Play of Shaft (Near to Flange)	≤ 0.06mm	1/82 1/95 1/115	10.0 N.m	30 N.m	66%	62.9 ± 0.5	519
轴向间隙 Axial Play of Shaft	≤ 0.3mm	1/181 1/218 1/253 1/305					
背隙(无负载时) Backlash at No-load	≤ 2.5°	1/354 1/426 1/495 1/596					
输出轴最大承受压入力 Max Shaft Press Fit Force	≤ 150N						

42JXL100K.42RBL01A 行星减速电机主要性能参数 42JXL100K.42RBL01A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.7	5.2	14	19	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率 Efficiency		90%	90%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1405.4	1000.0	371.4	273.7	192.6	106.1	88.1	76.5	63.4	0.0	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7
额定转矩 Rated Torque	Nm	0.17	0.23	0.6	0.8	1.1	1.8	2.2	2.5	3.0	3.5	4.2	6.0	7.2	8.3	10.0	10.0	10.0	10.0	10.0
额定转速 Rated Speed	Rpm	1081.1	769.2	285.7	210.5	148.1	81.6	67.8	58.8	48.8	0.0	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

42JXL100K.42RBL02A 行星减速电机主要性能参数 42JXL100K.42RBL02A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.7	5.2	14	19	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率 Efficiency		90%	90%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1405.4	1000.0	371.4	273.7	192.6	106.1	88.1	76.5	63.4	0.0	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7
额定转矩 Rated Torque	Nm	0.3	0.4	0.9	1.2	1.7	2.9	3.4	4.0	4.8	5.5	6.7	9.6	10.0	10.0	10.0	10.0	10.0	10.0	10.0
额定转速 Rated Speed	Rpm	1081.1	769.2	285.7	210.5	148.1	81.6	67.8	58.8	48.8	0.0	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

42JXL100K.42RBL03A 行星减速电机主要性能参数 42JXL100K.42RBL03A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.7	5.2	14	19	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率 Efficiency		90%	90%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1405.4	1000.0	371.4	273.7	192.6	106.1	88.1	76.5	63.4	0.0	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7
额定转矩 Rated Torque	Nm	0.5	0.7	1.7	2.3	3.3	5.4	6.5	7.4	8.0	8.0	8.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
额定转速 Rated Speed	Rpm	1081.1	769.2	285.7	210.5	148.1	81.6	67.8	58.8	48.8	0.0	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

42JXL100K.42RBL04A 行星减速电机主要性能参数 42JXL100K.42RBL04A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.7	5.2	14	19	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率 Efficiency		90%	90%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1405.4	1000.0	371.4	273.7	192.6	106.1	88.1	76.5	63.4	0.0	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7
额定转矩 Rated Torque	Nm	0.7	0.9	2.3	3.1	4.0	7.2	8.0	8.0	8.0	8.0	8.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
额定转速 Rated Speed	Rpm	1081.1	769.2	285.7	210.5	148.1	81.6	67.8	58.8	48.8	0.0	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

42JXLG200K.42RBL 系列无刷直流行星减速电机 42JXLG200K.42RBL Series Brushless Dc Planetary Gear Motor

图纸 Drawing

42JXLG200K.42RBL Series

Dimensions in mm

Key 4x4x20

27

20

L

Motor Length

300

Ø 35 ± 0.1

4-M4 EQS ⚓ 8

Ø 42

Ø 26 -0.1

Ø 10 -0.03

2

Connection mode

No.	Color	Guage	Function	Note
1	Yellow	20AWG UL1569	U	Motor
2	Green		V	
3	Blue		W	
4	Red	26AWG UL1569	VCC (+5V)	Hall
5	Yellow		Hu	
6	Green		Hv	
7	Blue		Hw	
8	Black		GND	

42RBL电机规格参数42RBL Motor Technical Specification:

型号Model	42RBL01A	42RBL02A	42RBL03A	42RBL04A
相数Number of Phase	3			
极数 Number of Pole	8			
额定电压Voltage	Vdc 24v(可定制12v 到120v); 24v(Option for 12v up to 120 vdc)			
空载转速No Load Speed	rpm 5200	5200	5200	5200
额定力矩Rated Torque	mN.m 50	80	150	200
额定转速Rated Speed	rpm 4000	4000	4000	4000
额定电流Rated Current	A 1.1	2	4.2	5.7
额定功率Rated Power	W 21	33.5	62	85
电机重量Weight	kg 0.32	0.4	0.7	0.8
机身长度Motor Length	mm 50	60	85	93

行星齿轮箱主要性能参数 Planetary Gearbox Specifications

- * Low Noise with Helical Gear
- * Large Output Torque and Long Life Span by Segmented Design Plus Needle Bearing



内齿圈材料 Ring Material	金属 Metal
输出轴轴承形式 Bearing at Output	滚动轴承Ball bearings
最大允许径向负载(离法兰10mm处) Max. Radial Load (10mm from Flange)	≤ 200N
最大允许轴向负载Max. Shaft Axial Load	≤ 100N
径向间隙(测量点尽量接近法兰) Radial Play of Shaft (Near to Flange)	≤ 0.06mm
轴向间隙 Axial Play of Shaft	≤ 0.3mm
背隙(无负载时) Backlash at No-load	≤ 2.5°
输出轴最大承压入力 Max Shaft Press Fit Force	≤ 150N

减速比 Reduction Ratio	额定允许负载 Rated Continuous Torque	瞬间允许负载 Max Momentary Torque	效率 Efficiency	L (mm)	重量(g) Weight(g)
1/3.71 1/5.18	2.0 N.m	5.0 N.m	90%	34.2±0.5	265
1/14 1/19 1/22 1/27	8.0 N.m	20 N.m	81%	49.6±0.5	380
1/49 1/59 1/68 1/82 1/95 1/115	16 N.m	40 N.m	73%	62.0±0.5	475
1/181 1/218 1/253 1/305 1/354 1/426 1/495 1/596	20 N.m	50 N.m	66%	74.4±0.5	570

42JXLG200K.42RBL01A 行星减速电机主要性能参数 42JXLG200K.42RBL01A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596	
效率Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1401.6	1003.9	371.4	273.7	236.4	192.6	106.1	88.1	76.5	63.4	54.7	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7	
额定力矩Rated Torque	Nm	0.2	0.2	0.6	0.8	0.9	1.1	1.8	2.2	2.5	3.0	3.5	4.2	6.0	7.2	8.3	10.1	11.7	14.1	16.3	19.7	
额定转速Rated Speed	Rpm	1078.2	772.2	265.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7	

42JXLG200K.42RBL02A 行星减速电机主要性能参数 42JXLG200K.42RBL02A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1401.6	1003.9	371.4	273.7	236.4	192.6	106.1	88.1	76.5	63.4	54.7	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7
额定力矩Rated Torque	Nm	0.3	0.4	0.9	1.2	1.4	1.7	2.9	3.4	4.0	4.8	5.5	6.7	9.6	11.5	13.4	16.1	18.7	20.0	20.0	20.0
额定转速Rated Speed	Rpm	1078.2	772.2	265.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

42JXLG200K.42RBL03A 行星减速电机主要性能参数 42JXLG200K.42RBL03A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1401.6	1003.9	371.4	273.7	236.4	192.6	106.1	88.1	76.5	63.4	54.7	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7
额定力矩Rated Torque	Nm	0.5	0.7	1.7	2.3	2.7	3.3	5.4	6.5	7.4	9.0	10.4	12.6	17.9	20.0	20.0	20.0	20.0	20.0	20.0	20.0
额定转速Rated Speed	Rpm	1078.2	772.2	265.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

42JXLG200K.42RBL04A 行星减速电机主要性能参数 42JXLG200K.42RBL04A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1401.6	1003.9	371.4	273.7	236.4	192.6	106.1	88.1	76.5	63.4	54.7	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7
额定力矩Rated Torque	Nm	0.7	0.9	2.3	3.1	3.6	4.4	7.2	8.6	9.9	12.0	13.9	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
额定转速Rated Speed	Rpm	1078.2	772.2	265.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

42JXLG200K.52RBL 系列无刷直流行星减速电机 42JXLG200K.52RBL Series Brushless Dc Planetary Gear Motor

图纸 Drawing

Dimensions in mm

Connection mode

No.	Color	Gauge	Function	Note
1	Yellow	18AWG UL1569	U	Motor
2	Green		V	
3	Blue		W	
4	Red	VCC (+5V)	Hall	
5	Yellow	Hu		
6	Green	Hv		
7	Blue	Hw		
8	Black		GND	

52RBL电机规格参数 52RBL Motor Technical Specification:

型号 Model	52RBL-50	52RBL-60	52RBL-70	52RBL-80
相数 Number of Phase	3			
极数 Number of Pole	4 (可选8; Option for 8)			
额定电压 Voltage	Vdc 24v(可定制12v 到115v); 24v(Option for 12v up to 115vdc)			
空载转速 No Load Speed	rpm 4200	4000	4000	4000
额定力矩 Rated Torque	N.m 0.11	0.20	0.30	0.40
额定转速 Rated Speed	rpm 3700	3500	3300	3300
额定电流 Rated Current	A 2.5	4.3	6.3	8.4
额定功率 Rated Power	W 43	73	104	138
电机重量 Weight	kg 0.6	0.7	0.8	0.9
机身长度 Motor Length	mm 50	60	70	80

行星齿轮箱主要性能参数 Planetary Gearbox Specifications

- * Low Noise with Helical Gear
- * Large Output Torque and Long Life Span by Segmented Design Plus Needle Bearing



内齿圈材料 Ring Material	金属 Metal
输出轴承形式 Bearing at Output	滚动轴承 Ball bearings
最大允许径向负载(离法兰10mm处) Max. Radial Load (10mm from Flange)	≤ 200N
最大允许轴向负载 Max. Shaft Axial Load	≤ 100N
径向间隙(测量点尽量接近法兰) Radial Play of Shaft (Near to Flange)	≤ 0.06mm
轴向间隙 Axial Play of Shaft	≤ 0.3mm
背隙(无负载时) Backlash at No-load	≤ 2.5°
输出轴最大承受压力 Max Shaft Press Fit Force	≤ 150N

减速比 Reduction Ratio	额定允许负载 Rated Continuous Torque	瞬间允许负载 Max Momentary Torque	效率 Efficiency	L (mm)	重量 (g) Weight(g)
1/3.71 1/5.18	2.0 N.m	5.0 N.m	90%	34.2±0.5	265
1/14 1/19 1/22 1/27	8.0 N.m	20 N.m	81%	49.6±0.5	380
1/49 1/59 1/68 1/82 1/95 1/115	16 N.m	40 N.m	73%	62.0±0.5	475
1/181 1/218 1/253 1/305 1/354 1/426 1/495 1/596	20 N.m	50 N.m	66%	74.4±0.5	570

42JXLG200K.52RBL-50 行星减速电机主要性能参数 42JXLG200K.52RBL-50 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596	
效率 Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1132.1	810.8	300.0	221.1	190.9	155.6	65.7	71.2	61.8	51.2	44.2	36.5	23.2	19.3	16.6	13.8	11.9	9.9	8.5	7.0	
额定力矩 Rated Torque	Nm	0.4	0.5	1.2	1.7	2.0	2.4	3.9	4.7	5.5	6.6	7.6	9.2	13.1	15.8	18.4	20.0	20.0	20.0	20.0	20.0	
额定转速 Rated Speed	Rpm	997.3	714.3	264.3	194.7	168.2	137.0	75.5	62.7	54.4	45.1	38.9	32.2	20.4	17.0	14.6	12.1	10.5	8.7	7.5	6.2	

42JXLG200K.52RBL-60 行星减速电机主要性能参数 42JXLG200K.52RBL-60 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596	
效率 Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1078.2	772.2	285.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7	
额定力矩 Rated Torque	Nm	0.7	0.9	2.3	3.1	3.6	4.4	7.2	8.6	9.9	12.0	13.9	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
额定转速 Rated Speed	Rpm	943.4	675.7	250.0	184.2	159.1	129.6	71.4	59.3	51.5	42.7	36.8	30.4	19.3	16.1	13.8	11.5	9.9	8.2	7.1	5.9	

42JXLG200K.52RBL-70 行星减速电机主要性能参数 42JXLG200K.52RBL-70 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596	
效率 Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1078.2	772.2	285.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7	
额定力矩 Rated Torque	Nm	1.0	1.4	3.4	4.6	5.3	6.6	10.7	12.9	14.9	16.0	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
额定转速 Rated Speed	Rpm	888.5	637.1	235.7	173.7	150.0	122.2	67.3	55.9	48.5	40.2	34.7	28.7	18.2	15.1	13.0	10.8	9.3	7.7	6.7	5.5	

42JXLG200K.52RBL-80 行星减速电机主要性能参数 42JXLG200K.52RBL-80 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596	
效率 Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1078.2	772.2	285.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7	
额定力矩 Rated Torque	Nm	1.3	1.9	4.5	6.2	7.1	8.0	14.3	16.0	16.0	16.0	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
额定转速 Rated Speed	Rpm	888.5	637.1	235.7	173.7	150.0	122.2	67.3	55.9	48.5	40.2	34.7	28.7	18.2	15.1	13.0	10.8	9.3	7.7	6.7	5.5	

42JXLG200K.57HBL 系列无刷直流行星减速电机 42JXLG200K.57HBL Series Brushless Dc Planetary Gear Motor

图纸 Drawing

42JXLG200K. 57HBL Series

Dimensions in mm

Connection mode

No.	Color	Gauge	Function	Note
1	Yellow	16AWG UL1569	U	Motor
2	Green		V	
3	Blue		W	
4	Red	26AWG UL1569	VCC (+5V)	Hall
5	Yellow		Hu	
6	Green		Hv	
7	Blue	Hw		
8	Black		GND	

57HBL电机规格参数 57HBL Motor Technical Specification:

型号 Model	57HBL01A	57HBL02A	57HBL03A	57HBL04A
相数 Number of Phase	3			
极数 Number of Pole	4 (可选8; Option for 8)			
额定电压 Voltage	Vdc 24v(可定制 12v 到 230v); 24v(Option for 12v up to 230vdc)			
空载转速 No Load Speed	rpm 5200	5200	5300	5300
额定力矩 Rated Torque	N.m 0.14	0.28	0.43	0.49
额定转速 Rated Speed	rpm 4000	4000	4000	4000
额定电流 Rated Current	A 3.3	6.7	10.5	11.5
额定功率 Rated Power	W 59	117	180	205
电机重量 Weight	kg 0.5	0.8	1.1	1.5
机身长度 Motor Length	mm 55	75	95	115

行星齿轮箱主要性能参数 Planetary Gearbox Specifications

- * Low Noise with Helical Gear
- * Large Output Torque and Long Life Span by Segmented Design Plus Needle Bearing



内齿圈材料 Ring Material	金属 Metal
输出轴轴承形式 Bearing at Output	滚动轴承 Ball bearings
最大允许径向负载(离法兰10mm处) Max. Radial Load (10mm from Flange)	≤ 200N
最大允许轴向负载 Max. Shaft Axial Load	≤ 100N
径向间隙 (测量点尽量接近法兰) Radial Play of Shaft (Near to Flange)	≤ 0.06mm
轴向间隙 Axial Play of Shaft	≤ 0.3mm
背隙 (无负载时) Backlash at No-load	≤ 2.5°
输出轴最大承压入力 Max Shaft Press Fit Force	≤ 150N

减速比 Reduction Ratio	额定允许负载 Rated Continuous Torque	瞬间允许负载 Max Momentary Torque	效率 Efficiency	L (mm)	重量 (g) Weight(g)
1/3.71 1/5.18	2.0 N.m	5.0 N.m	90%	34.2 ± 0.5	265
1/14 1/19 1/22 1/27	8.0 N.m	20 N.m	81%	49.6 ± 0.5	380
1/49 1/59 1/68 1/82 1/95 1/115	16 N.m	40 N.m	73%	62.0 ± 0.5	475
1/181 1/218 1/253 1/305 1/354 1/426 1/495 1/596	20 N.m	50 N.m	66%	74.4 ± 0.5	570

42JXLG200K.57HBL01A 行星减速电机主要性能参数 42JXLG200K.57HBL01A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596	
效率 Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1401.6	1003.9	371.4	273.7	236.4	192.6	106.1	88.1	76.5	63.4	54.7	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7	
额定力矩 Rated Torque	Nm	0.5	0.7	1.6	2.2	2.5	3.1	5.0	6.0	6.9	8.4	9.7	11.8	16.7	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
额定转速 Rated Speed	Rpm	1078.2	772.2	286.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7	

42JXLG200K.57HBL02A 行星减速电机主要性能参数 42JXLG200K.57HBL02A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率 Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1401.6	1003.9	371.4	273.7	236.4	192.6	106.1	88.1	76.5	63.4	54.7	45.2	28.7	23.9	20.6	17.0	14.7	12.2	10.5	8.7
额定力矩 Rated Torque	Nm	0.9	1.3	3.2	4.3	5.0	6.1	10.0	12.1	13.9	16.0	16.0	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
额定转速 Rated Speed	Rpm	1078.2	772.2	286.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

42JXLG200K.57HBL03A 行星减速电机主要性能参数 42JXLG200K.57HBL03A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率 Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1428.6	1023.2	378.6	278.9	240.9	196.3	108.2	89.8	77.9	64.6	55.6	46.1	29.3	24.3	20.9	17.4	15.0	12.4	10.7	8.9
额定力矩 Rated Torque	Nm	1.4	2.0	4.9	6.6	7.7	8.0	15.4	16.0	16.0	16.0	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
额定转速 Rated Speed	Rpm	1078.2	772.2	286.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

42JXLG200K.57HBL04A 行星减速电机主要性能参数 42JXLG200K.57HBL04A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.71	5.18	14	19	22	27	49	59	68	82	95	115	181	218	253	305	354	426	495	596
效率 Efficiency		90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1428.6	1023.2	378.6	278.9	240.9	196.3	108.2	89.8	77.9	64.6	55.6	46.1	29.3	24.3	20.9	17.4	15.0	12.4	10.7	8.9
额定力矩 Rated Torque	Nm	1.6	2.0	5.6	7.5	8.0	8.0	16.0	16.0	16.0	16.0	16.0	16.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
额定转速 Rated Speed	Rpm	1078.2	772.2	286.7	210.5	181.8	148.1	81.6	67.8	58.8	48.8	42.1	34.8	22.1	18.3	15.8	13.1	11.3	9.4	8.1	6.7

56JXE450K.57HBL 系列无刷直流行星减速电机

56JXE450K.57HBL Series Brushless Dc Planetary Gear Motor

图纸 Drawing

No.	Color	Gauge	Function	Note
1	Yellow	16AWG UL1569	U	Motor
2	Green		V	
3	Blue		W	
4	Red	VCC (+5V)	Hall	
5	Yellow	Hu		
6	Green	Hv		
7	Blue	Hw		
8	Black		GND	

57HBL电机规格参数 57HBL Motor Technical Specification:

型号 Model	57HBL01A	57HBL02A	57HBL03A	57HBL04A
相数 Number of Phase	3			
极数 Number of Pole	4 (可选8; Option for 8)			
额定电压 Voltage	Vdc 24v(可定制12v 到230v); 24v(Option for 12v up to 230vdc)			
空载转速 No Load Speed	rpm 5200	rpm 5200	rpm 5300	rpm 5300
额定力矩 Rated Torque	N.m 0.14	N.m 0.28	N.m 0.43	N.m 0.49
额定转速 Rated Speed	rpm 4000	rpm 4000	rpm 4000	rpm 4000
额定电流 Rated Current	A 3.3	A 6.7	A 10.5	A 11.5
额定功率 Rated Power	W 59	W 117	W 180	W 205
电机重量 Weight	kg 0.5	kg 0.8	kg 1.1	kg 1.5
机身长度 Motor Length	mm 55	mm 75	mm 95	mm 115

行星齿轮箱主要性能参数 Planetary Gearbox Specifications

内齿圈材料 Ring Material	E 型金属 Metal	减速比 Reduction Ratio	额定允许负载 Rated Continuous Torque	瞬间允许负载 Max Momentary Torque	效率 Efficiency	L (mm)	重量 (g) Weight(g)
输出轴轴承形式 Bearing at Output	滚动轴承 Ball bearings	1/3.6 1/4.25 1/5.33	4 N.m	12 N.m	90%	40.3±0.5	520
最大允许径向负载(离法兰10mm处) Max. Radial Load (10mm from Flange)	≤400N	1/13 1/15 1/18 1/23 1/28	18 N.m	50 N.m	81%	53.8±0.5	710
最大允许轴向负载 Max. Shaft Axial Load	≤120N	1/43 1/52 1/61 1/72 1/96 1/121	36 N.m	100 N.m	73%	67.2±0.5	900
径向间隙 (测量点尽量接近法兰) Radial Play of Shaft (Near to Flange)	≤0.08mm	1/154 1/187 1/220 1/260 1/307 1/409 1/514 1/645 1/809	45 N.m	110 N.m	66%	80.6±0.5	1100
轴向间隙 Axial Play of Shaft	≤0.4mm						
背隙 (无负载时) Backlash at No-load	≤2.5°						
输出轴最大承受压力 Max Shaft Press Fit Force	≤300N						

56JXE450K.57HBL01A 行星减速电机主要性能参数 56JXE450K.57HBL01A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809	
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1444.4	1223.5	975.6	400.0	346.7	289.9	226.1	185.7	120.9	100.0	85.2	72.2	54.2	43.0	33.8	27.6	23.6	20.0	16.9	12.7	10.1	8.1	6.4	
额定力矩 Rated Torque	Nm	0.5	0.5	0.7	1.5	1.7	2.0	2.6	3.2	4.4	5.3	6.2	7.4	9.8	12.4	14.2	17.3	20.3	24.0	28.4	37.8	45.0	45.0	45.0	
额定转速 Rated Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9	

56JXE450K.57HBL02A 行星减速电机主要性能参数 56JXE450K.57HBL02A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1444.4	1223.5	975.6	400.0	346.7	289.9	226.1	185.7	120.9	100.0	85.2	72.2	54.2	43.0	33.8	27.6	23.6	20.0	16.9	12.7	10.1	8.1	6.4
额定力矩 Rated Torque	Nm	0.9	1.1	1.3	2.9	3.4	4.1	5.2	6.4	8.8	10.6	12.5	14.7	19.6	24.7	28.5	34.6	40.7	45.0	45.0	45.0	45.0	45.0	45.0
额定转速 Rated Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9

56JXE450K.57HBL03A 行星减速电机主要性能参数 56JXE450K.57HBL03A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1472.2	1247.1	994.4	407.7	353.3	294.4	230.4	189.3	123.3	101.9	86.9	73.6	55.2	43.8	34.4	28.3	24.1	20.4	17.3	13.0	10.3	8.2	6.6
额定力矩 Rated Torque	Nm	1.4	1.6	2.1	4.5	5.2	6.3	8.0	9.8	13.5	16.3	19.1	22.6	30.1	36.0	43.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
额定转速 Rated Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9

56JXE450K.57HBL04A 行星减速电机主要性能参数 56JXE450K.57HBL04A Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1472.2	1247.1	994.4	407.7	353.3	294.4	230.4	189.3	123.3	101.9	86.9	73.6	55.2	43.8	34.4	28.3	24.1	20.4	17.3	13.0	10.3	8.2	6.6
额定力矩 Rated Torque	Nm	1.6	1.9	2.4	5.2	6.0	7.1	9.1	11.1	15.4	18.6	21.8	25.8	34.3	36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
额定转速 Rated Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9

56JNL450K.57HBL-N系列加强型无刷直流行星减速电机

56JNL450K.57HBL-N Series Brushless Dc Planetary Gear Motor

(Option with Brake and Encoder Integrated)

图纸 Drawing

56JNL450K.57HBL-N Series

Dimensions in mm

No.	Color	Gauge	Function	Note
1	Yellow	16AWG UL1569	U	Motor
2	Green		V	
3	Blue		W	
4	Red	26AWG UL1569	VCC (+5V)	Hall
5	Yellow		Hu	
6	Green		Hv	
7	Blue		Hw	
8	Black		GND	

57HBL-N电机规格参数 57HBL-N Motor Technical Specification:

型号Model	57HBL-N01A	57HBL-N02A	57HBL-N03A	57HBL-N04A
相数Number of Phase	3			
极数 Number of Pole	4 (可选8; Option for 8)			
额定电压Voltage	Vdc	24v (可定制12v 到230v); 24v (Option for 12v up to 230vdc)		
空载转速No Load Speed	rpm	3800	3800	3800
额定力矩Rated Torque	N.m	0.2	0.4	0.8
额定转速Rated Speed	rpm	3000	3000	3000
额定电流Rated Current	A	3.5	7.2	10.5
额定功率Rated Power	W	63	126	188
电机重量Weight	kg	0.5	0.8	1.1
机身长度Motor Length	mm	55	75	95

行星齿轮箱主要性能参数 Planetary Gearbox Specifications

内齿圈材料 Ring Material	E 型金属 Metal	减速比	额定允许负载	瞬间允许负载	效率	L	重量 (g)
输出轴轴承形式 Bearing at Output	滚动轴承Ball bearings	Reduction Ratio	Rated Continuous Torque	Max Momentary Torque	Efficiency	(mm)	Weight(g)
最大允许径向负载(离法兰12mm处) Max. Radial Load (12mm from Flange)	≤400N	1/4.2 1/5.0	4 N.m	10 N.m	92 %	40.3	450
最大允许轴向负载Max. Shaft Axial Load	≤120N	1/15 1/18 1/21 1/27	18 N.m	50 N.m	81 %	53.8	720
径向间隙 (测量点尽量接近法兰) Radial Play of Shaft (Near to Flange)	≤0.08mm	1/50 1/60 1/72	36 N.m	100 N.m	73 %	67.2	930
轴向间隙 Axial Play of Shaft	≤0.4mm	1/179 1/218 1/259	45 N.m	110 N.m	66 %	80.6	1150
背隙 (无负载时) Backlash at No-load	≤2.5°	1/306 1/361					
输出轴最大承压入力 Max Shaft Press Fit Force	≤300N						

56JNL450K.57HBL-N01A 行星减速电机主要性能参数

56JNL450K.57HBL-N01A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	4.2	5.0	15	18	21	27	50	60	72	85	113	142	179	218	259	306	361
效率Efficiency		92%	92%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	904.8	760.0	253.3	211.1	181.0	140.7	76.0	63.3	52.8	44.7	33.6	26.8	21.2	17.4	14.7	12.4	10.5
额定力矩Rated Torque	Nm	0.8	0.9	2.4	2.9	3.4	4.4	7.3	8.8	10.5	12.4	16.5	20.7	23.6	28.8	34.2	40.4	45.0
额定转速Rated Speed	Rpm	714.3	600.0	200.0	166.7	142.9	111.1	60.0	50.0	41.7	35.3	26.5	21.1	16.8	13.8	11.6	9.8	8.3

56JNL450K.57HBL-N02A 行星减速电机主要性能参数

56JNL450K.57HBL-N02A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	4.2	5.0	15	18	21	27	50	60	72	85	113	142	179	218	259	306	361
效率Efficiency		92%	92%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	904.8	760.0	253.3	211.1	181.0	140.7	76.0	63.3	52.8	44.7	33.6	26.8	21.2	17.4	14.7	12.4	10.5
额定力矩Rated Torque	Nm	1.5	1.8	4.9	5.8	6.8	8.7	14.6	17.5	21.0	24.8	33.0	36.0	45.0	45.0	45.0	45.0	45.0
额定转速Rated Speed	Rpm	714.3	600.0	200.0	166.7	142.9	111.1	60.0	50.0	41.7	35.3	26.5	21.1	16.8	13.8	11.6	9.8	8.3

56JNL450K.57HBL-N03A 行星减速电机主要性能参数

56JNL450K.57HBL-N03A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	4.2	5.0	15	18	21	27	50	60	72	85	113	142	179	218	259	306	361
效率Efficiency		92%	92%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	904.8	760.0	253.3	211.1	181.0	140.7	76.0	63.3	52.8	44.7	33.6	26.8	21.2	17.4	14.7	12.4	10.5
额定力矩Rated Torque	Nm	2.3	2.8	7.3	8.7	10.2	13.1	21.9	26.3	31.5	36.0	36.0	36.0	45.0	45.0	45.0	45.0	45.0
额定转速Rated Speed	Rpm	714.3	600.0	200.0	166.7	142.9	111.1	60.0	50.0	41.7	35.3	26.5	21.1	16.8	13.8	11.6	9.8	8.3

56JNL450K.57HBL-N04A 行星减速电机主要性能参数

56JNL450K.57HBL-N04A Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	4.2	5.0	15	18	21	27	50	60	72	85	113	142	179	218	259	306	361
效率Efficiency		92%	92%	81%	81%	81%	81%	73%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	904.8	760.0	253.3	211.1	181.0	140.7	76.0	63.3	52.8	44.7	33.6	26.8	21.2	17.4	14.7	12.4	10.5
额定力矩Rated Torque	Nm	3.1	3.7	9.7	11.7	13.6	17.5	29.2	35.0	36.0	36.0	36.0	36.0	45.0	45.0	45.0	45.0	45.0
额定转速Rated Speed	Rpm	714.3	600.0	200.0	166.7	142.9	111.1	60.0	50.0	41.7	35.3	26.5	21.1	16.8	13.8	11.6	9.8	8.3

60JXE450K.63RBL 系列无刷直流行星减速电机 60JXE450K.63RBL Series Brushless Dc Planetary Gear Motor

图纸 Drawing

No.	Color	Guage	Function	Note
1	Yellow	16AWG UL1569	U	Motor
2	Green		V	
3	Blue		W	
4	Red		VCC (+5V)	
5	Yellow	26AWG UL1569	Hu	Hall
6	Green		Hv	
7	Blue		Hw	
8	Black		GND	



63RBL电机规格参数63RBL Motor Technical Specification:

型号Model	63RBL-50	63RBL-60	63RBL-70	63RBL-80	63RBL-90	63RBL-100	63RBL-110
相数Number of Phase	3						
极数 Number of Pole	4 (Option 8)						
额定电压Voltage	Vdc 24v (可定制12v到230v); 24v (Option for 12v up to 230vdc)						
空载转速No Load Speed	rpm 4000	4000	4000	4000	4000	4000	4000
额定力矩Rated Torque	N.m 0.2	0.31	0.4	0.5	0.6	0.7	0.8
额定转速Rated Speed	rpm 3050	3050	3050	3000	3000	3000	3000
额定电流Rated Current	A 3.5	5.5	7.0	8.5	10.5	12	14
额定功率Rated Power	W 64	99	128	157	188	220	251
电机重量Weight	kg 0.80	1.0	1.2	1.4	1.6	1.8	2.0
机身长度Motor Length	mm 50	60	70	80	90	100	110

行星齿轮箱主要性能参数 Planetary Gearbox Specifications

内齿圈材料 Ring Material	E 型金属 Metal
输出轴轴承形式 Bearing at Output	滚动轴承Ball bearings
最大允许径向负载(离法兰10mm处) Max. Radial Load (10mm from Flange)	≤400N
最大允许轴向负载Max. Shaft Axial Load	≤120N
径向间隙 (测量点尽量接近法兰) Radial Play of Shaft (Near to Flange)	≤0.08mm
轴向间隙 Axial Play of Shaft	≤0.4mm
背隙 (无负载时) Backlash at No-load	≤2.5°
输出轴最大承受压力 Max Shaft Press Fit Force	≤300N

减速比 Reduction Ratio	额定允许负载 Rated Continuous Torque	瞬间允许负载 Max Momentary Torque	效率 Efficiency	L (mm)	重量 (g) Weight(g)
1/3.6 1/4.25 1/5.33	4 N.m	12 N.m	90%	40.3±0.5	520
1/13 1/15 1/18 1/23 1/28	18 N.m	50 N.m	81%	53.8±0.5	710
1/43 1/52 1/61 1/72 1/86 1/121	36 N.m	100 N.m	73%	67.2±0.5	900
1/154 1/187 1/220 1/260 1/307 1/409 1/514 645 809	45 N.m	110 N.m	66%	80.6±0.5	1100

60JXE450K.63RBL-50 行星减速电机主要性能参数 60JXE450K.63RBL-50 Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809	
效率Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9	
额定力矩Rated Torque	Nm	0.6	0.8	1.0	2.1	2.4	2.9	3.7	4.5	6.3	7.6	8.9	10.5	14.0	17.7	20.3	24.7	29.0	34.3	40.5	45.0	45.0	45.0	45.0	
额定转速Rated Speed	Rpm	847.2	717.6	572.2	234.6	203.3	169.4	132.6	108.9	70.9	58.7	50.0	42.4	31.8	25.2	19.8	16.3	13.9	11.7	9.9	7.5	5.9	4.7	3.8	

60JXE450K.63RBL-60 行星减速电机主要性能参数 60JXE450K.63RBL-60 Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809	
效率Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9	
额定力矩Rated Torque	Nm	1.0	1.2	1.5	3.3	3.8	4.5	5.8	7.0	9.7	11.8	13.8	16.3	21.7	27.4	31.5	38.3	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
额定转速Rated Speed	Rpm	847.2	717.6	572.2	234.6	203.3	169.4	132.6	108.9	70.9	58.7	50.0	42.4	31.8	25.2	19.8	16.3	13.9	11.7	9.9	7.5	5.9	4.7	3.8	

60JXE450K.63RBL-70 行星减速电机主要性能参数 60JXE450K.63RBL-70 Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809	
效率Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9	
额定力矩Rated Torque	Nm	1.3	1.5	1.9	4.2	4.9	5.8	7.5	9.1	12.6	15.2	17.8	21.0	28.0	35.3	40.7	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
额定转速Rated Speed	Rpm	847.2	717.6	572.2	234.6	203.3	169.4	132.6	108.9	70.9	58.7	50.0	42.4	31.8	25.2	19.8	16.3	13.9	11.7	9.9	7.5	5.9	4.7	3.8	

60JXE450K.63RBL-80 行星减速电机主要性能参数 60JXE450K.63RBL-80 Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809	
效率Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9	
额定力矩Rated Torque	Nm	1.6	1.9	2.4	5.3	6.1	7.3	9.3	11.3	15.7	19.0	22.3	26.3	35.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
额定转速Rated Speed	Rpm	833.3	705.9	562.9	230.8	200.0	166.7	130.4	107.1	69.8	57.7	49.2	41.7	31.3	24.8	19.5	16.0	13.6	11.5	9.8	7.3	5.8	4.7	3.7	

60JXE450K.63RBL-90 行星减速电机主要性能参数 60JXE450K.63RBL-90 Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809	
效率Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9	
额定力矩Rated Torque	Nm	1.9	2.3	2.9	6.3	7.3	8.7	11.2	13.6	18.8	23.8	28.7	31.5	36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
额定转速Rated Speed	Rpm	833.3	705.9	562.9	230.8	200.0	166.7	130.4	107.1	69.8	57.7	49.2	41.7	31.3	24.8	19.5	16.0	13.6	11.5	9.8	7.3	5.8	4.7	3.7	

60JXE450K.63RBL-100 行星减速电机主要性能参数 60JXE450K.63RBL-100 Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809	
效率Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9	
额定力矩Rated Torque	Nm	2.3	2.7	3.4	7.4	8.5	10.2	13.0	15.9	22.0	26.6	31.2	36.0	36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
额定转速Rated Speed	Rpm	833.3	705.9	562.9	230.8	200.0	166.7	130.4	107.1	69.8	57.7	49.2	41.7	31.3	24.8	19.5	16.0	13.6	11.5	9.8	7.3	5.8	4.7	3.7	

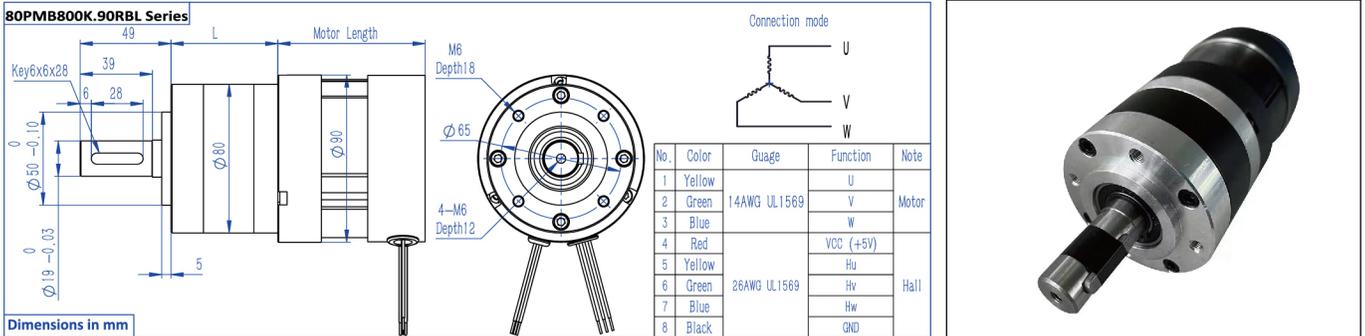
60JXE450K.63RBL-110 行星减速电机主要性能参数 60JXE450K.63RBL-110 Planetary Gear Motor Specifications:

减速比Reduction Ratio	单位Unit	3.6	4.25	5.33	13	15	18	23	28	43	52	61	72	96	121	154	187	220	260	307	409	514	645	809	
效率Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%	66%
空载转速 No Load Speed	Rpm	1111.1	941.2	750.5	307.7	266.7	222.2	173.9	142.9	93.0	76.9	65.6	55.6	41.7	33.1	26.0	21.4	18.2	15.4	13.0	9.8	7.8	6.2	4.9	
额定力矩Rated Torque	Nm	2.6	3.1	3.8	8.4	9.7	11.7	14.9	18.0	25.1	30.4	35.6	36.0	36.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	
额定转速Rated Speed	Rpm	833.3	705.9	562.9	230.8	200.0	166.7	130.4	107.1	69.8	57.7	49.2	41.7	31.3	24.8	19.5	16.0	13.6	11.5	9.8	7.3	5.8	4.7	3.7	

80PMB800K.90RBL 系列无刷直流行星减速电机

80PMB800K.90RBL Series Brushless Dc Planetary Gear Motor

图纸 Drawing



90RBL电机规格参数 90RBL Motor Technical Specification:

型号 Model	90RBL-70	90RBL-80	90RBL-90	90RBL-105	90RBL-130	90RBL-135
相数 Number of Phase	3					
极数 Number of Pole	8					
额定电压 Voltage	Vdc 48v (可定制 12v 到 320v); 48v (Option for 12v 24v up to 310vdc)					
空载转速 No Load Speed	rpm 3500	rpm 3500	rpm 3500	rpm 3500	rpm 3500	rpm 3500
额定力矩 Rated Torque	N.m 0.7	N.m 1.0	N.m 1.4	N.m 1.8	N.m 2.5	N.m 3.0
额定转速 Rated Speed	rpm 3000	rpm 3000	rpm 3000	rpm 3000	rpm 3000	rpm 3000
额定电流 Rated Current	A 5.8	A 8.2	A 11.3	A 14.5	A 20	A 24
额定功率 Rated Power	W 220	W 314	W 440	W 565	W 785	W 942
电机重量 Weight	kg 1.7	kg 2.1	kg 2.5	kg 3.1	kg 4.1	kg 4.3
机身长度 Motor Length	mm 70	mm 80	mm 90	mm 105	mm 130	mm 135

行星齿轮箱主要性能参数 Planetary Gearbox Specifications

内齿圈材料 Ring Material	金属 Metal	减速比 Reduction Ratio	额定允许负载 Rated Continuous Torque	瞬间允许负载 Max Momentary Torque	效率 Efficiency	L (mm)	重量 (g) Weight(g)
输出轴轴承形式 Bearing at Output	滚动轴承 Ball bearings	1/3.55 1/5.31 1/6.60	8 N.m	12 N.m	90%	55.7±0.5	1100
最大允许径向负载 (离法兰10mm处) Max. Radial Load (10mm from Flange)	600N	1/13 1/19 1/23	30 N.m	45 N.m	81%	72.2±0.5	1500
最大允许轴向负载 Max. Shaft Axial Load	200N	1/26 1/30 1/37	60 N.m	90 N.m	81%	72.2±0.5	1500
径向间隙 (测量点尽量接近法兰) Radial Play of Shaft (Near to Flange)	≤0.1 mm	1/50 1/74 1/92 1/111 1/138	80 N.m	120 N.m	73%	88.5±0.5	1800
轴向间隙 Axial Play of Shaft	≤0.6 mm						
背隙 (无负载时) Backlash at No-load	≤2.5°						
输出轴最大承受压入力 Max. Shaft Press Fit Force	1000N						

80PMB800K.90RBL-70 行星减速电机主要性能参数

80PMB800K.90RBL-70 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.55	5.31	6.60	13	19	23	26	30	37	50	74	92	111	138
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%
空载转速 No Load Speed	Rpm	985.9	659.1	530.3	269.2	184.2	152.2	134.6	116.7	94.6	70.0	47.3	38.0	31.5	25.4
额定力矩 Rated Torque	Nm	2.2	3.3	4.2	7.4	10.8	13.0	14.7	17.0	21.0	25.6	37.8	47.0	56.7	70.5
额定转速 Rated Speed	Rpm	845.1	565.0	454.5	230.8	157.9	130.4	115.4	100.0	81.1	60.0	40.5	32.6	27.0	21.7

80PMB800K.90RBL-80 行星减速电机主要性能参数

80PMB800K.90RBL-80 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.55	5.31	6.60	13	19	23	26	30	37	50	74	92	111	138
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%
空载转速 No Load Speed	Rpm	985.9	659.1	530.3	269.2	184.2	152.2	134.6	116.7	94.6	70.0	47.3	38.0	31.5	25.4
额定力矩 Rated Torque	Nm	3.2	4.8	5.9	10.5	15.4	18.6	21.1	24.3	30.0	36.5	54.0	67.2	80.0	80.0
额定转速 Rated Speed	Rpm	845.1	565.0	454.5	230.8	157.9	130.4	115.4	100.0	81.1	60.0	40.5	32.6	27.0	21.7

80PMB800K.90RBL-90 行星减速电机主要性能参数

80PMB800K.90RBL-90 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.55	5.31	6.60	13	19	23	26	30	37	50	74	92	111	138
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%
空载转速 No Load Speed	Rpm	985.9	659.1	530.3	269.2	184.2	152.2	134.6	116.7	94.6	70.0	47.3	38.0	31.5	25.4
额定力矩 Rated Torque	Nm	4.5	6.7	8.0	14.7	21.5	26.1	29.5	34.0	42.0	51.1	75.6	80.0	80.0	80.0
额定转速 Rated Speed	Rpm	845.1	565.0	454.5	230.8	157.9	130.4	115.4	100.0	81.1	60.0	40.5	32.6	27.0	21.7

80PMB800K.90RBL-105 行星减速电机主要性能参数

80PMB800K.90RBL-105 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.55	5.31	6.60	13	19	23	26	30	37	50	74	92	111	138
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%
空载转速 No Load Speed	Rpm	985.9	659.1	530.3	269.2	184.2	152.2	134.6	116.7	94.6	70.0	47.3	38.0	31.5	25.4
额定力矩 Rated Torque	Nm	5.8	8.0	8.0	19.0	27.7	30.0	37.9	43.7	53.9	65.7	80.0	80.0	80.0	80.0
额定转速 Rated Speed	Rpm	845.1	565.0	454.5	230.8	157.9	130.4	115.4	100.0	81.1	60.0	40.5	32.6	27.0	21.7

80PMB800K.90RBL-130 行星减速电机主要性能参数

80PMB800K.90RBL-130 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.55	5.31	6.60	13	19	23	26	30	37	50	74	92	111	138
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%
空载转速 No Load Speed	Rpm	985.9	659.1	530.3	269.2	184.2	152.2	134.6	116.7	94.6	70.0	47.3	38.0	31.5	25.4
额定力矩 Rated Torque	Nm	8.0	8.0	8.0	26.3	30.0	30.0	52.7	60.0	60.0	80.0	80.0	80.0	80.0	80.0
额定转速 Rated Speed	Rpm	845.1	565.0	454.5	230.8	157.9	130.4	115.4	100.0	81.1	60.0	40.5	32.6	27.0	21.7

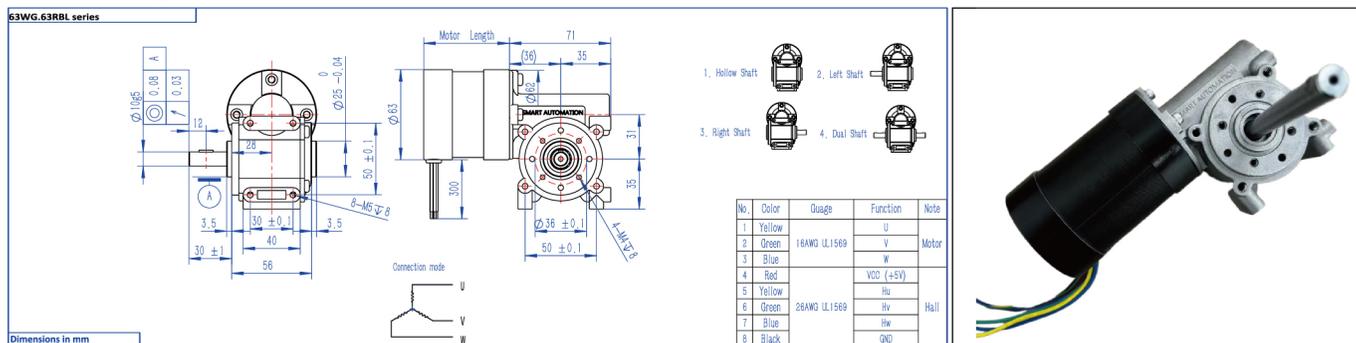
80PMB800K.90RBL-135 行星减速电机主要性能参数

80PMB800K.90RBL-135 Planetary Gear Motor Specifications:

减速比 Reduction Ratio	单位 Unit	3.55	5.31	6.60	13	19	23	26	30	37	50	74	92	111	138
效率 Efficiency		90%	90%	90%	81%	81%	81%	81%	81%	81%	73%	73%	73%	73%	73%
空载转速 No Load Speed	Rpm	985.9	659.1	530.3	269.2	184.2	152.2	134.6	116.7	94.6	70.0	47.3	38.0	31.5	25.4
额定力矩 Rated Torque	Nm	8.0	8.0	8.0	30.0	30.0	30.0	60.0	60.0	60.0	80.0	80.0	80.0	80.0	80.0
额定转速 Rated Speed	Rpm	845.1	565.0	454.5	230.8	157.9	130.4	115.4	100.0	81.1	60.0	40.5	32.6	27.0	21.7

63WG.63RBL 系列无刷直流蜗轮蜗杆减速电机 63WG.63RBL Series Brushless Dc Worm Gear Motor

图纸 Drawing



63RBL 电机主要性能参数63RBL Motor Main Technical Specification:

型号Model	63RBL-50	63RBL-60	63RBL-70	63RBL-80	63RBL-90	63RBL-100	63RBL-110
相数Number of Phase	3						
极数 Number of Pole	4 (Option 8)						
额定电压Voltage	Vdc 24v (可定制12v到230v); 24v (Option for 12v up to 230vdc)						
空载转速No Load Speed	rpm 4000	rpm 4000	rpm 4000	rpm 4000	rpm 4000	rpm 4000	rpm 4000
额定力矩Rated Torque	N.m 0.2	N.m 0.3	N.m 0.4	N.m 0.5	N.m 0.6	N.m 0.7	N.m 0.8
额定转速Rated Speed	rpm 3050	rpm 3050	rpm 3050	rpm 3000	rpm 3000	rpm 3000	rpm 3000
额定电流Rated Current	A 3.5	A 5.5	A 7.0	A 8.5	A 10.5	A 12	A 14
额定功率Rated Power	W 64	W 99	W 128	W 157	W 188	W 220	W 251
电机重量Weight	kg 0.8	kg 1.0	kg 1.2	kg 1.4	kg 1.6	kg 1.8	kg 2.0
机身长度Motor Length	mm 50	mm 60	mm 70	mm 80	mm 90	mm 100	mm 110

63WG齿轮箱参数63WG Worm Gearbox Specification:

减速比Reduction Ratio	10	15	30
效率Efficiency	0.65	0.55	0.45
连续转矩 Continuous torque	Up to /可达1000 (metallic gears,金属齿轮)		Up to /可达700 (non-metallic gears,非金属齿轮)
减速箱重量 Weight of gearbox	0.4kg		
轴向载荷 /径向载荷 Axial load/radial load	300/350N		

63WG.63RBL-50 蜗轮蜗杆减速电机参数

63WG.63RBL-50 Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	10	15	30
效率Efficiency		65%	55%	45%
空载转速 No Load Speed	Rpm	400.0	266.7	133.3
额定力矩Rated Torque	Nm	1.3	1.66	2.7
额定转速Rated Speed	Rpm	305.0	203.3	101.7

63WG.63RBL-70 蜗轮蜗杆减速电机参数

63WG.63RBL-70 Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	10	15	30
效率Efficiency		65%	55%	45%
空载转速 No Load Speed	Rpm	400.0	266.7	133.3
额定力矩Rated Torque	Nm	2.6	3.3	5.4
额定转速Rated Speed	Rpm	305.0	203.3	101.7

63WG.63RBL-90 蜗轮蜗杆减速电机参数

63WG.63RBL-90 Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	10	15	30
效率Efficiency		65%	55%	45%
空载转速 No Load Speed	Rpm	400.0	266.7	133.3
额定力矩Rated Torque	Nm	3.9	5.0	8.1
额定转速Rated Speed	Rpm	300.0	200.0	100.0

63WG.63RBL-110 蜗轮蜗杆减速电机参数

63WG.63RBL-110 Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	10	15	30
效率Efficiency		65%	55%	45%
空载转速 No Load Speed	Rpm	400.0	266.7	133.3
额定力矩Rated Torque	Nm	5.2	6.6	10.0
额定转速Rated Speed	Rpm	300.0	200.0	100.0

63WG.63RBL-60 蜗轮蜗杆减速电机参数

63WG.63RBL-60 Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	10	15	30
效率Efficiency		65%	55%	45%
空载转速 No Load Speed	Rpm	400.0	266.7	133.3
额定力矩Rated Torque	Nm	2.0	2.6	4.2
额定转速Rated Speed	Rpm	305.0	203.3	101.7

63WG.63RBL-80 蜗轮蜗杆减速电机参数

63WG.63RBL-80 Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	10	15	30
效率Efficiency		65%	55%	45%
空载转速 No Load Speed	Rpm	400.0	266.7	133.3
额定力矩Rated Torque	Nm	3.3	4.1	6.8
额定转速Rated Speed	Rpm	300.0	200.0	100.0

63WG.63RBL-100 蜗轮蜗杆减速电机参数

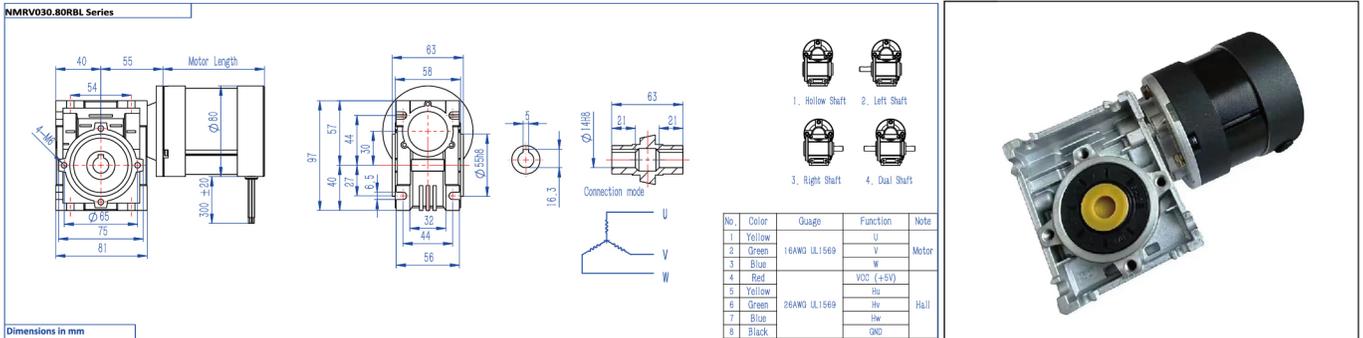
63WG.63RBL-100 Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	10	15	30
效率Efficiency		65%	55%	45%
空载转速 No Load Speed	Rpm	400.0	266.7	133.3
额定力矩Rated Torque	Nm	4.6	5.8	9.5
额定转速Rated Speed	Rpm	300.0	200.0	100.0

NMRV030.80RBL 系列无刷直流蜗轮蜗杆减速电机

NMRV030.80RBL Series Brushless Dc Worm Gear Motor

图纸 Drawing



80RBL 电机主要性能参数 80RBL Motor Main Technical Specification:

型号Model		80RBL-60L	80RBL-70L	80RBL-80L	80RBL-90L	80RBL-100L	80RBL-120L
相数Number of Phase		3					
极数 Number of Pole		4 (Option 8)					
额定电压Voltage	V	24v(可定制12v 36v 48v to 230vdc); 24v(Option for 12v 36v 48v to 230vdc)					
空载转速 No Load Speed	rpm	2500	2500	2500	2500	2500	2500
额定力矩Rated Torque	N.m	0.5	0.8	1.0	1.2	1.5	1.8
额定转速Rated Speed	rpm	1500	1500	1500	1500	1500	1500
额定电流 Rated Current	A	4.3	7	8.8	10.5	13	16
额定功率Rated Power	W	80	126	158	190	237	285
机身长度Motor Length	mm	60	70	80	90	100	120

NMRV030.80RBL-60L 蜗轮蜗杆减速电机参数 NMRV030.80RBL-60L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31
额定力矩Rated Torque	Nm	2.3	3.2	4.3	6.0	7.5	9.4	10.5	13.0	15.0	16.5	20.0
额定转速Rated Speed	Rpm	300	200	150	100	75	60	50	37	30	25	18

NMRV030.80RBL-70L 蜗轮蜗杆减速电机参数 NMRV030.80RBL-70L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31
额定力矩Rated Torque	Nm	3.6	5.1	6.8	9.6	12.0	15.0	16.8	20.8	24.0	26.4	32.0
额定转速Rated Speed	Rpm	300	200	150	100	75	60	50	37	30	25	18

NMRV030.80RBL-80L 蜗轮蜗杆减速电机参数 NMRV030.80RBL-80L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31
额定力矩Rated Torque	Nm	4.5	6.4	8.5	12.0	15.0	18.8	21.0	26.0	30.0	33.0	40.0
额定转速Rated Speed	Rpm	300	200	150	100	75	60	50	37	30	25	18

NMRV030.80RBL-90L 蜗轮蜗杆减速电机参数 NMRV030.80RBL-90L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31
额定力矩Rated Torque	Nm	5.4	7.7	10.2	14.4	18.0	22.5	25.2	31.2	36.0	39.6	48.0
额定转速Rated Speed	Rpm	300	200	150	100	75	60	50	37	30	25	18

NMRV030.80RBL-100L 蜗轮蜗杆减速电机参数 NMRV030.80RBL-100L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31
额定力矩Rated Torque	Nm	6.8	9.6	12.8	18.0	22.5	28.1	31.5	39.0	45.0	49.5	60.0
额定转速Rated Speed	Rpm	300	200	150	100	75	60	50	37	30	25	18

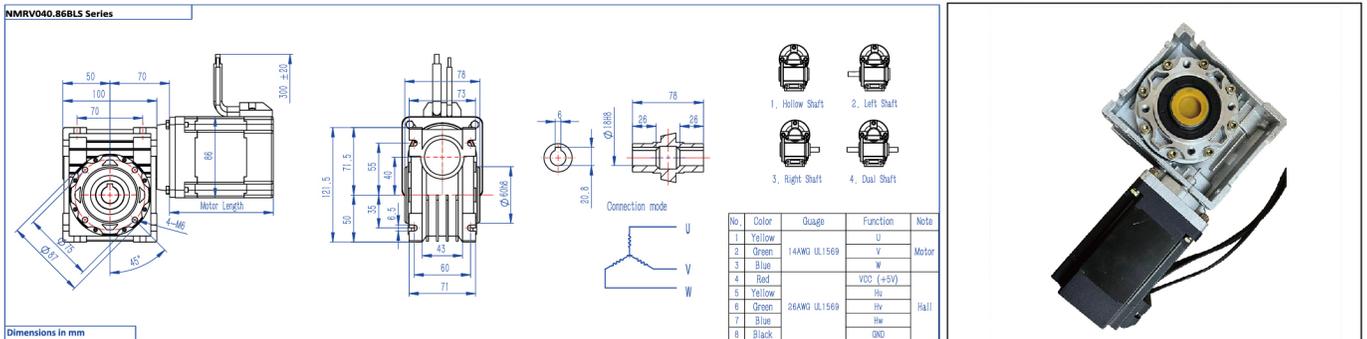
NMRV030.80RBL-120L 蜗轮蜗杆减速电机参数 NMRV030.80RBL-120L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31
额定力矩Rated Torque	Nm	8.1	11.5	15.3	21.6	27.0	33.8	37.8	46.8	54.0	59.4	60.0
额定转速Rated Speed	Rpm	300	200	150	100	75	60	50	37	30	25	18

NMRV040.86BLS系列蜗轮蜗杆无刷减速电机

NMRV040.86BLS Series Brushless Dc Worm Gear Motor

图纸 Drawing



86BLS 电机主要性能参数 86BLS Motor Main Technical Specification:

型号Model	86BLS-70L	86BLS-80L	86BLS-90L	86BLS-105L	86BLS-130L	86BLS-135L
相数Number of Phase	3					
极数 Number of Pole	8					
额定电压Voltage	V 48v (可定制12v 到320vdc); 48v (Option for 12v 24v up to 320vdc)					
空载转速No Load Speed	rpm 2500	2500	2500	2500	2500	2500
额定力矩Rated Torque	N.m 0.7	1.0	1.3	1.8	2.5	3.0
额定转速Rated Speed	rpm 2000	2000	2000	2000	2000	2000
额定电流Rated Current	A 4	5.6	7.3	10	14	16.8
额定功率Rated Power	W 146	210	272	377	523	628
电机重量Weight	kg 1.7	2.1	2.5	3.1	4.1	4.3
机身长度Motor Length	mm 70	80	90	105	130	135

NMRV040.86BLS-70L 蜗轮蜗杆减速电机参数 NMRV040.86BLS-70L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31	25
额定力矩Rated Torque	Nm	3.2	4.5	6.0	8.4	10.5	13.1	14.7	18.2	21.0	23.1	28.0	28.0
额定转速Rated Speed	Rpm	400	266	200	133	100	80	66	50	40	33	25	20

NMRV040.86BLS-80L 蜗轮蜗杆减速电机参数 NMRV040.86BLS-80L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31	25
额定力矩Rated Torque	Nm	4.5	6.4	8.5	12.0	15.0	18.8	21.0	26.0	30.0	33.0	40.0	40.0
额定转速Rated Speed	Rpm	400	266	200	133	100	80	66	50	40	33	25	20

NMRV040.86BLS-90L 蜗轮蜗杆减速电机参数 NMRV040.86BLS-90L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31	25
额定力矩Rated Torque	Nm	5.9	8.3	11.1	15.6	19.5	24.4	27.3	33.8	39.0	42.9	52.0	52.0
额定转速Rated Speed	Rpm	400	266	200	133	100	80	66	50	40	33	25	20

NMRV040.86BLS-105L 蜗轮蜗杆减速电机参数 NMRV040.86BLS-105L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31	25
额定力矩Rated Torque	Nm	8.1	11.5	15.3	21.6	27.0	33.8	37.8	46.8	54.0	59.4	72.0	72.0
额定转速Rated Speed	Rpm	400	266	200	133	100	80	66	50	40	33	25	20

NMRV040.86BLS-130L 蜗轮蜗杆减速电机参数 NMRV040.86BLS-130L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31	25
额定力矩Rated Torque	Nm	11.3	15.9	21.3	30.0	37.5	46.9	52.5	65.0	75.0	75	75	75
额定转速Rated Speed	Rpm	400	266	200	133	100	80	66	50	40	33	25	20

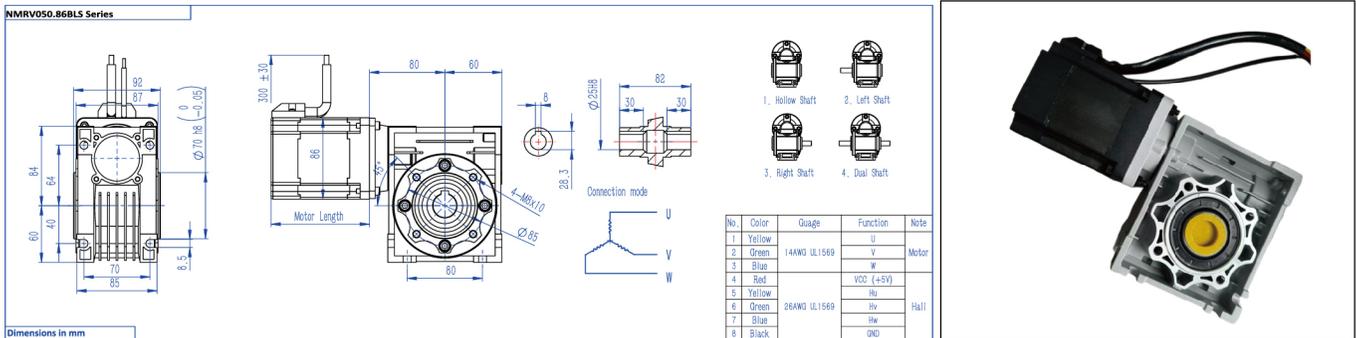
NMRV040.86BLS-135L 蜗轮蜗杆减速电机参数 NMRV040.86BLS-135L Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	500	333	250	166	125	100	83	62	50	41	31	25
额定力矩Rated Torque	Nm	13.5	19.1	25.5	36.0	45.0	56.3	63.0	75.0	75.0	75.0	75.0	75.0
额定转速Rated Speed	Rpm	400	266	200	133	100	80	66	50	40	33	25	20

NMRV050.86BLS系列蜗轮蜗杆无刷减速电机

NMRV050.86BLS Series Brushless Dc Worm Gear Motor

图纸 Drawing



86BLS电机主要性能参数 86BLS Motor Main Technical Specification:

型号Model		86BLS-70A	86BLS-80A	86BLS-90A	86BLS-105A	86BLS-130A	86BLS-135A
相数Number of Phase		3					
极数 Number of Pole		8					
额定电压Voltage	V	48v (可定制12v 到320v); 48v (Option for 12v 24v up to 320vdc)					
空载转速No Load Speed	rpm	3500	3500	3500	3500	3500	3500
额定力矩Rated Torque	N.m	0.7	1.0	1.3	1.8	2.5	3.0
额定转速Rated Speed	rpm	3000	3000	3000	3000	3000	3000
额定电流Rated Current	A	6	8.6	11	15	21	25
额定功率Rated Power	W	220	314	408	565	785	942
电机重量Weight	kg	1.7	2.1	2.5	3.1	4.1	4.3
机身长度Motor Length	mm	70	80	90	105	130	135

NMRV050.86BLS-70A 蜗轮蜗杆减速电机参数 NMRV040.86BLS-70A Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	700.0	466.7	350.0	233.3	175.0	140.0	116.7	87.5	70.0	58.3	43.8	35.0
额定力矩Rated Torque	Nm	3.2	4.5	6.0	8.4	10.5	13.1	14.7	18.2	21.0	23.1	28.0	28.0
额定转速Rated Speed	Rpm	600	400	300	200	150	120	100	75	60	50	37.5	30

NMRV050.86BLS-80A 蜗轮蜗杆减速电机参数 NMRV040.86BLS-80A Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	700.0	466.7	350.0	233.3	175.0	140.0	116.7	87.5	70.0	58.3	43.8	35.0
额定力矩Rated Torque	Nm	4.5	6.4	8.5	12.0	15.0	18.8	21.0	26.0	30.0	33.0	40.0	40.0
额定转速Rated Speed	Rpm	600	400	300	200	150	120	100	75	60	50	37.5	30

NMRV050.86BLS-90A 蜗轮蜗杆减速电机参数 NMRV040.86BLS-90A Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	700.0	466.7	350.0	233.3	175.0	140.0	116.7	87.5	70.0	58.3	43.8	35.0
额定力矩Rated Torque	Nm	5.9	8.3	11.1	15.6	19.5	24.4	27.3	33.8	39.0	42.9	52.0	52.0
额定转速Rated Speed	Rpm	600	400	300	200	150	120	100	75	60	50	37.5	30

NMRV050.86BLS-105A 蜗轮蜗杆减速电机参数 NMRV040.86BLS-105A Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	700.0	466.7	350.0	233.3	175.0	140.0	116.7	87.5	70.0	58.3	43.8	35.0
额定力矩Rated Torque	Nm	8.1	11.5	15.3	21.6	27.0	33.8	37.8	46.8	54.0	59.4	72.0	72.0
额定转速Rated Speed	Rpm	600	400	300	200	150	120	100	75	60	50	37.5	30

NMRV050.86BLS-130A 蜗轮蜗杆减速电机参数 NMRV040.86BLS-130A Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	700.0	466.7	350.0	233.3	175.0	140.0	116.7	87.5	70.0	58.3	43.8	35.0
额定力矩Rated Torque	Nm	11.3	15.9	21.3	30.0	37.5	46.9	52.5	65.0	75.0	82.5	90.0	90.0
额定转速Rated Speed	Rpm	600	400	300	200	150	120	100	75	60	50	37.5	30

NMRV050.86BLS-135A 蜗轮蜗杆减速电机参数 NMRV040.86BLS-135A Worm Gear Motor Specification:

减速比Reduction Ratio	单位Unit	5	7.5	10	15	20	25	30	40	50	60	80	100
效率Efficiency		90%	85%	85%	80%	75%	75%	70%	65%	60%	55%	50%	40%
空载转速 No Load Speed	Rpm	700.0	466.7	350.0	233.3	175.0	140.0	116.7	87.5	70.0	58.3	43.8	35.0
额定力矩Rated Torque	Nm	13.5	19.1	25.5	36.0	45.0	56.3	63.0	78.0	90.0	90.0	90.0	90.0
额定转速Rated Speed	Rpm	600	400	300	200	150	120	100	75	60	50	37.5	30