

DC Motor Φ8

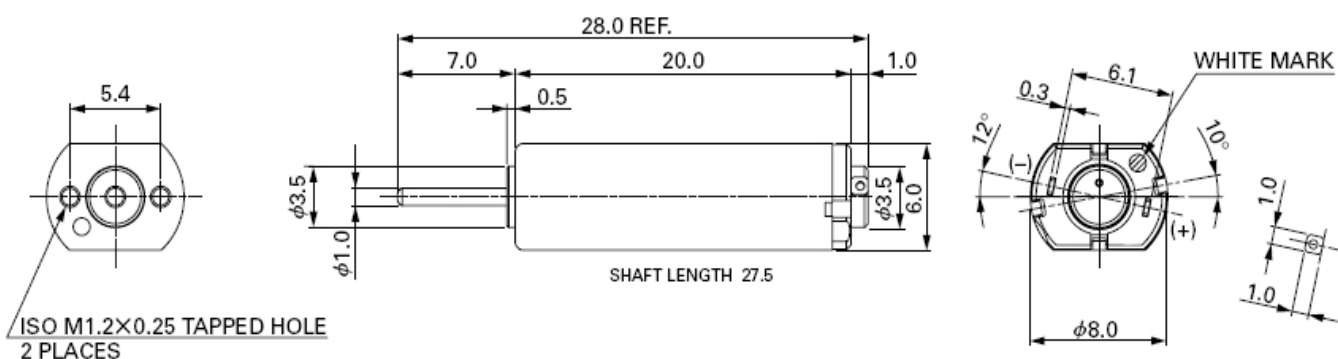


FF-K30WD-XXXXX

Design	
Commutator	AgCuNi/3-segments
RFI Protection	
Insulation class	
Protection class	IP 40
Commutation	Precious metal-brush
Armature	straight slot
Magnet system	Ferrite magnets,2-pole
Bearings	2 sintered bronze Oil bearings
Housing	Steel,corrosion protected
End shields	PA66+16GF

Type FF-K30WD-XXXXX			8Z107	09100
Characteristics*				
Rated voltage	V	V	3.0	3.0
Rated power	P _N	W	0.16	0.185
Rated torque	T _N	mNm	0.12	0.14
Rated speed	n _N	rpm	12020	12000
Rated current	I _N	A	0.11	0.13
No load characteristics*				
No load speed	n ₀	rpm	15200	15600
No load current	I ₀	A	0.028	0.038
Starting characteristics*				
Starting torque	T _s	mNm	0.59	0.65
Starting current	I _s	A	0.4	0.47
Motor parameters*				
Weight	G	g	3.6	3.6
Temperature range	T	°C	-10~60	-10~60
Humidity at room temperature	rel.F	%	15%~60%	15%~60%

DIRECTION OF ROTATION



取付けネジの長さはモータケース面より0.8~1.1

UNIT: MILLIMETERS

changzhou maxim mechatronics co.,ltd

Room2231,Tongjiang Road 398-1,Hi-Tech Area,Changzhou City,Jiangsu,P.R.China (213022)

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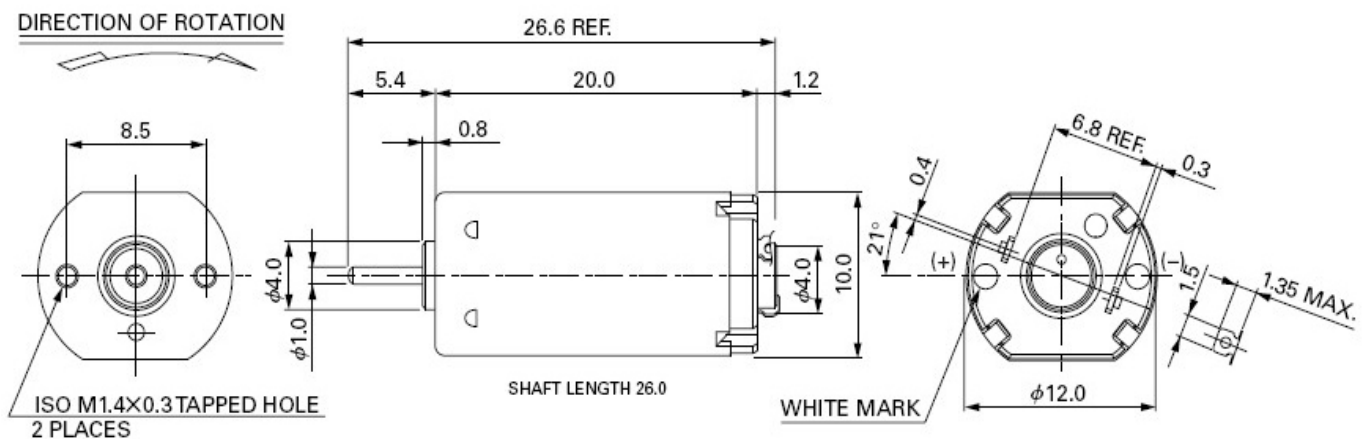
DC Motor $\Phi 12$



FF-N30VB-XXXXX

Design	
Commutator	AgCuNi/3-segments
RFI Protection	
Insulation class	
Protection class	IP 20
Commutation	Precious metal-brush
Armature	straight slot
Magnet system	NdFeBoron magnets,2-pole
Bearings	Oil bearings
Housing	Steel,corrosion protected
End shields	PA66+16GF

Type FF-N30VB-XXXXX			09210	11160
Characteristics*				
Rated voltage	V	V	2.5	4.0
Rated power	P_N	W	0.07	0.36
Rated torque	T_N	mNm	0.16	0.28
Rated speed	n_N	rpm	4220	8300
Rated current	I_N	A	0.059	0.12
No load characteristics*				
No load speed	n_o	rpm	5300	10300
No load current	I_o	A	0.015	0.025
Starting characteristics*				
Starting torque	T_s	mNm	0.78	1.5
Starting current	I_s	A	0.23	0.58
Motor parameters*				
Weight	G	g	8	8
Temperature range	T	°C	-10~70	-10~70
Humidity at room temperature	rel.F	%	15%~60%	15%~60%



Usable machine screw length 1.3 max. from
motor mounting surface.

UNIT: MILLIMETERS

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DC Motor Φ15

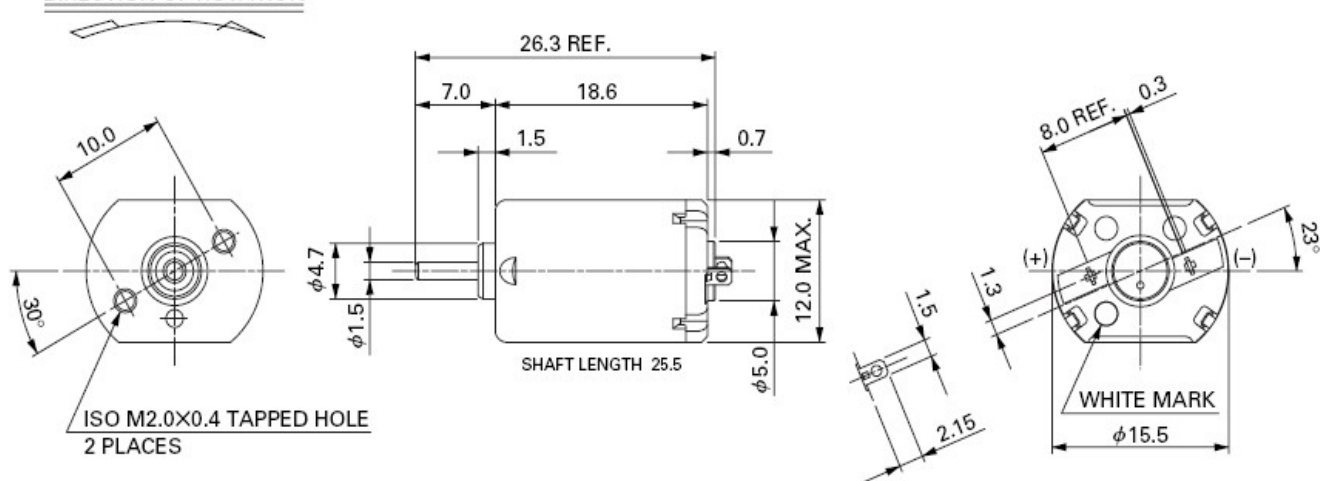


FF-030SA-XXXXX

Design	
Commutator	AgCuNi/3-segments
RFI Protection	
Insulation class	
Protection class	IP 20
Commutation	Precious metal-brush
Armature	straight slot
Magnet system	Ferrite magnets,2-pole
Bearings	Oil bearings
Housing	Steel,corrosion protected
End shields	PA66+16GF

Type FF-030SA-XXXXX			09210	1D200
Characteristics*				
Rated voltage	V	V	7.0	5.0
Rated power	P _N	W	0.2	0.47
Rated torque	T _N	mNm	0.57	0.54
Rated speed	n _N	rpm	11100	8390
Rated current	I _N	A	0.66	0.2
No load characteristics*				
No load speed	n ₀	rpm	14100	10600
No load current	I ₀	A	0.055	0.053
Starting characteristics*				
Starting torque	T _s	mNm	2.67	2.58
Starting current	I _s	A	0.75	0.76
Motor parameters*				
Weight	G	g	11	11
Temperature range	T	°C	-10~70	-10~70
Humidity at room temperature	rel.F	%	15%~60%	15%~60%

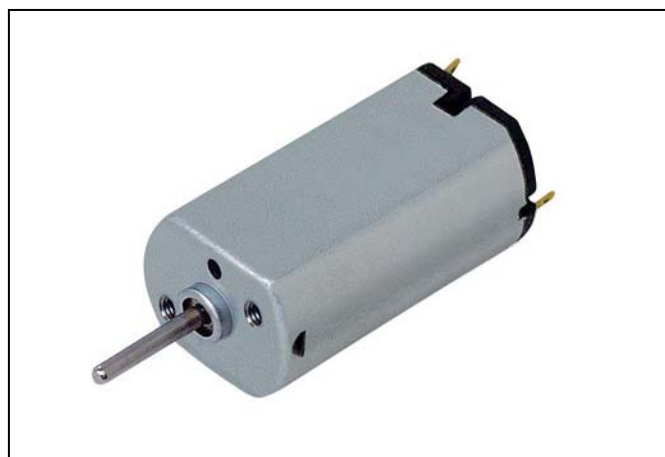
DIRECTION OF ROTATION



Usable machine screw length 1.5 max. from motor mounting surface.

UNIT: MILLIMETERS

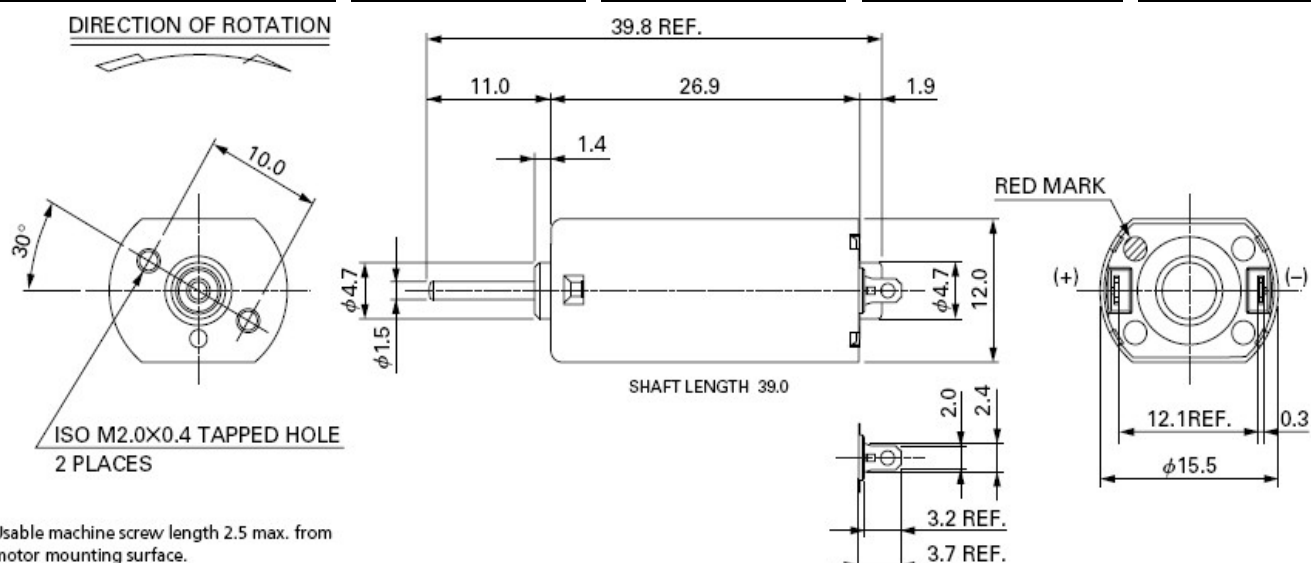
DC Motor Φ15



FF-050SH-XXXXX

Design	
Commutator	AgCuNi/3-segments
RFI Protection	
Insulation class	
Protection class	IP 30
Commutation	Precious metal-brush
Armature	straight slot
Magnet system	Ferrite magnets,2-pole
Bearings	Oil bearings
Housing	Steel,corrosion protected
End shields	PA66+16GF(or steel)

Type FF-050SH-XXXXX			11170	09250
Characteristics*				
Rated voltage	V	V	7.0	8.0
Rated power	P _N	W	0.73	0.44
Rated torque	T _N	mNm	0.83	0.63
Rated speed	n _N	rpm	8440	6610
Rated current	I _N	A	0.2	0.1
No load characteristics*				
No load speed	n ₀	rpm	10400	8100
No load current	I ₀	A	0.046	0.023
Starting characteristics*				
Starting torque	T _s	mNm	4.41	3.43
Starting current	I _s	A	0.85	0.45
Motor parameters*				
Weight	G	g	18	18
Temperature range	T	°C	-10~55	-10~55
Humidity at room temperature	rel.F	%	15%~60%	15%~60%



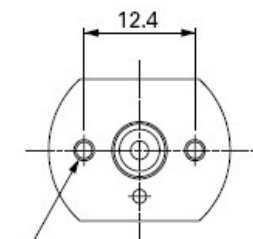
DC Motor $\Phi 20$

**FF-130SH-XXXXX**

Design	
Commutator	AgCuNi/3-segments
RFI Protection	
Insulation class	
Protection class	IP 30
Commutation	Precious metal-brush
Armature	straight slot
Magnet system	Ferrite magnets,2-pole
Bearings	Oil bearings
Housing	Steel,corrosion protected
End shields	Steel,corrosion protected

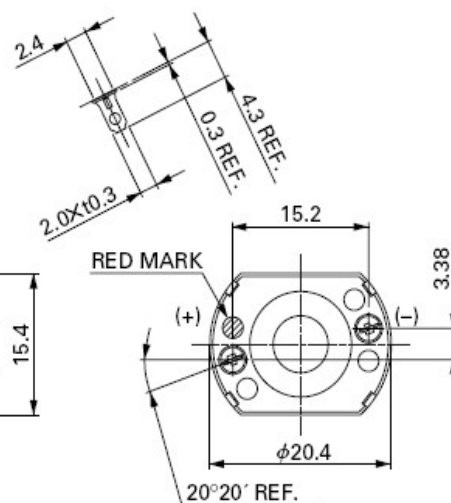
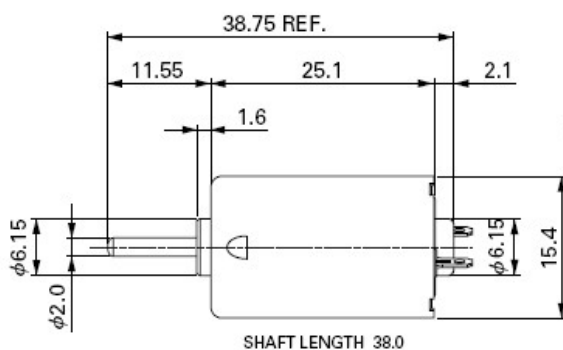
Type FF-130SH-XXXXX			11340	14230
Characteristics*				
Rated voltage	V	V	7.5	3.0
Rated power	P _N	W	0.55	0.22
Rated troque	T _N	mNm	1.06	0.74
Rated speed	n _N	rpm	4920	2850
Rated current	I _N	A	0.14	0.14
No load chiaracteristics*				
No load speed	n _O	rpm	6100	3600
No load current	I _O	A	0.033	0.037
Starting chiaracteristics*				
Starting torque	T _S	mNm	5.49	3.53
Starting current	I _S	A	0.57	0.53
Motor parameters*				
Weight	G	g	24	24
Temperature range	T	°C	-10~55	-10~55
Humidity at room temperature	rel.F	%	15%~60%	15%~60%

DIRECTION OF ROTATION



ISO M2.0X0.4 TAPPED HOLE
2 PLACES

Usable machine screw length 2.0 max. from motor mounting surface.



UNIT: MILLIMETERS

DC Motor Φ20

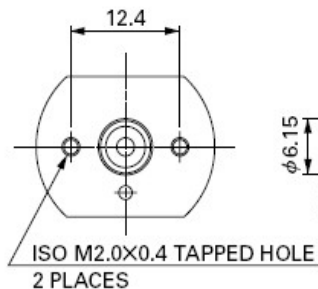


FF-180SH-XXXXX

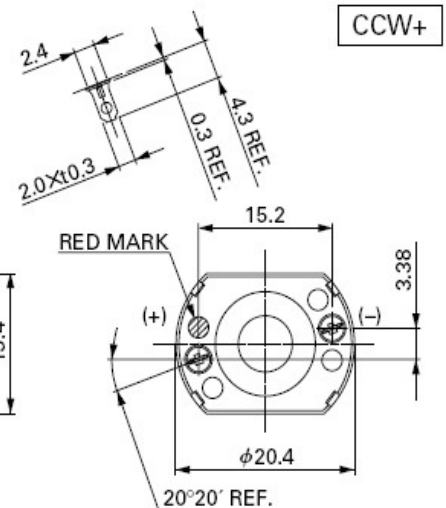
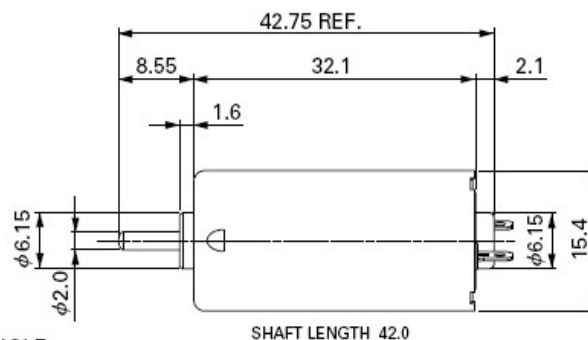
Design	
Commutator	AgCuNi/3-segments
RFI Protection	
Insulation class	
Protection class	IP 30
Commutation	Precious metal-brush
Armature	straight slot
Magnet system	Ferrite magnets,2-pole
Bearings	Oil bearings
Housing	Steel,corrosion protected
End shields	Steel,corrosion protected

Type FF-180SH-XXXXX			2657	4026
Characteristics*				
Rated voltage	V	V	2.4	1.2
Rated power	P _N	W	1.11	1.2
Rated torque	T _N	mNm	1.64	1.64
Rated speed	n _N	rpm	6500	6990
Rated current	I _N	A	0.7	1.6
No load characteristics*				
No load speed	n ₀	rpm	7700	8300
No load current	I ₀	A	0.13	0.3
Starting characteristics*				
Starting torque	T _s	mNm	10.5	10.4
Starting current	I _s	A	3.8	8.55
Motor parameters*				
Weight	G	g	32	32
Temperature range	T	°C	-10~55	-10~55
Humidity at room temperature	rel.F	%	15%~60%	15%~60%

DIRECTION OF ROTATION



Usable machine screw length 2.0 max. from motor mounting surface.



UNIT: MILLIMETERS

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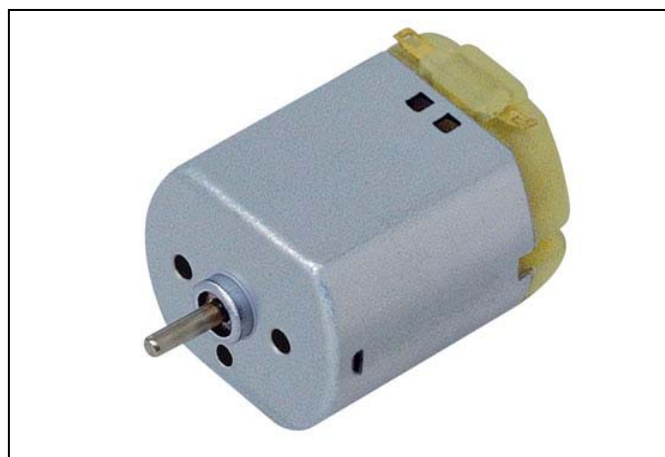
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DC Motor Φ25

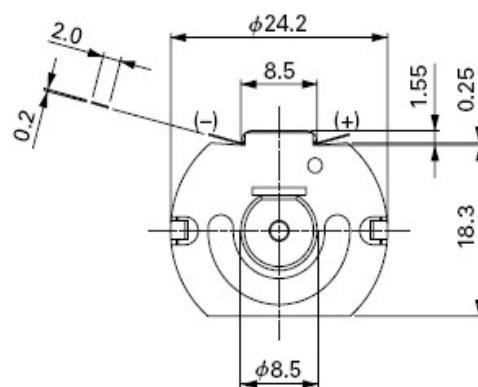
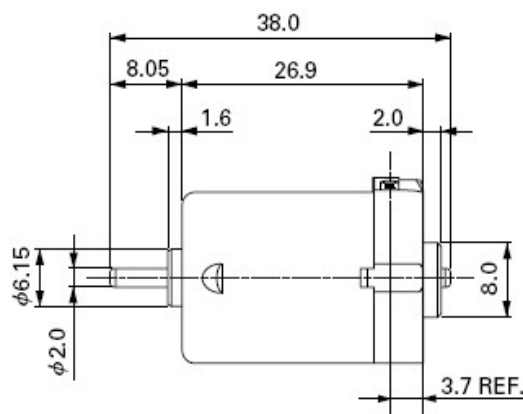
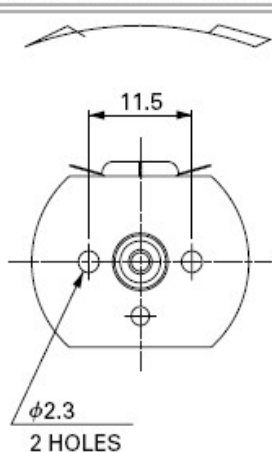


FC-260SA-XXXXX

Design	
Commutator	Copper/3-segments
RFI Protection	
Insulation class	Winding F, Other wise A
Protection class	IP 30
Commutation	Graphite/copper-carbon brushes
Armature	straight slot
Magnet system	Ferrite magnets, 2-pole
Bearings	2 sintered bronze Oil bearings
Housing	Steel, corrosion protected
End shields	PA66+16GF

Type FC-260SA-XXXXX			2670	12250
Characteristics*				
Rated voltage	V	V	4.5	24.0
Rated power	P _N	W	3.59	6.43
Rated torque	T _N	mNm	2.94	3.51
Rated speed	n _N	rpm	11660	17530
Rated current	I _N	A	1.34	0.46
No load characteristics*				
No load speed	n ₀	rpm	14000	20600
No load current	I ₀	A	0.27	0.08
Starting characteristics*				
Starting torque	T _s	mNm	17.6	23.5
Starting current	I _s	A	6.7	2.6
Motor parameters*				
Weight	G	g	28	27
Temperature range	T	°C	-10~55	-10~55
Humidity at room temperature	rel.F	%	15%~60%	15%~60%

DIRECTION OF ROTATION



UNIT: MILLIMETERS

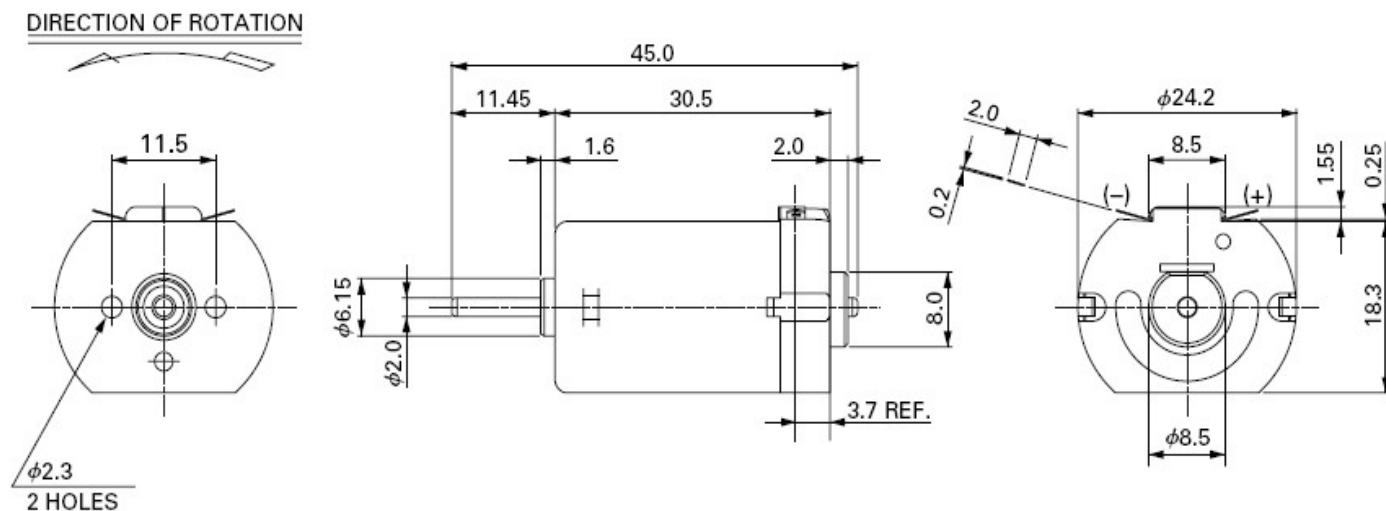
DC Motor $\Phi 25$



FC-280SA-XXXXX

Design	
Commutator	Copper/3-segments
RFI Protection	
Insulation class	Winding F, Other wise A
Protection class	IP 30
Commutation	Graphite/copper-carbon brushes
Armature	straight slot
Magnet system	Ferrite magnets, 2-pole
Bearings	2 sintered bronze Oil bearings
Housing	Steel, corrosion protected
End shields	PA66+16GF

Type FC-280SA-XXXXX			4523	16200
Characteristics*				
Rated voltage	V	V	1.2	12.0
Rated power	P _N	W	1.8	2.92
Rated troque	T _N	mNm	2.42	3.3
Rated speed	n _N	rpm	7100	8470
Rated current	I _N	A	2.58	0.39
No load chiaracteristics*				
No load speed	n _O	rpm	8700	10000
No load current	I _O	A	0.58	0.07
Starting chiaracteristics*				
Starting torque	T _S	mNm	13.2	21.6
Starting corrent	I _S	A	11.5	2.15
Motor parameters*				
Weight	G	g	35	35
Temperature range	T	°C	-10~55	-10~55
Humidity at room temperature	rel.F	%	15%~60%	15%~60%



UNIT: MILLIMETERS

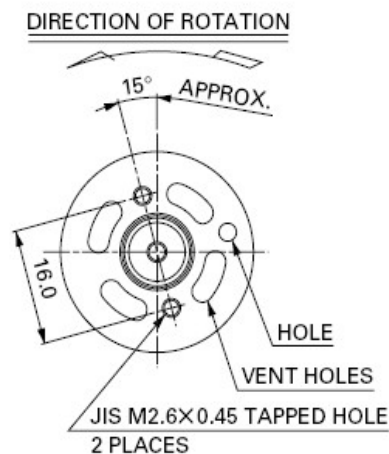
DC Motor Φ28



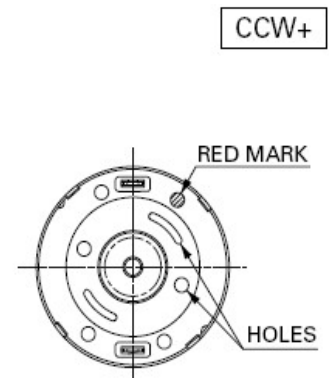
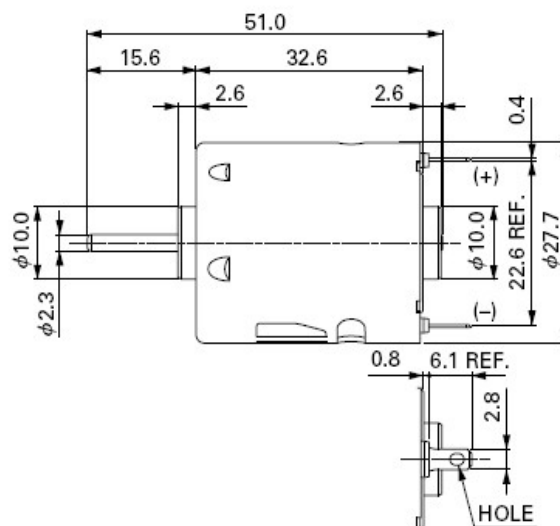
RS-365SH-XXXXX

Design	
Commutator	Copper/5-segments
RFI Protection	
Insulation class	Winding F, Other wise A
Protection class	IP 20
Commutation	Graphite/copper-carbon brushes
Armature	straight slot
Magnet system	Ferrite magnets, 2-pole
Bearings	2 sintered bronze Oil bearings
Housing	Steel, corrosion protected
End shields	PA66+16GF(or steel)

Type RS-365SH-XXXXX			2080	12190
Characteristics*				
Rated voltage	V	V	18.0	24.0
Rated power	P _N	W	11.9	4.44
Rated torque	T _N	mNm	7.09	5.04
Rated speed	n _N	rpm	16060	8430
Rated current	I _N	A	1.06	0.32
No load characteristics*				
No load speed	n ₀	rpm	19400	10500
No load current	I ₀	A	0.22	0.08
Starting characteristics*				
Starting torque	T _s	mNm	41.2	25.5
Starting current	I _s	A	5.1	1.32
Motor parameters*				
Weight	G	g	54	54
Temperature range	T	°C	-10~55	-10~55
Humidity at room temperature	rel.F	%	15%~60%	15%~60%



Usable machine screw length 3.0 max. from motor mounting surface.



UNIT: MILLIMETERS

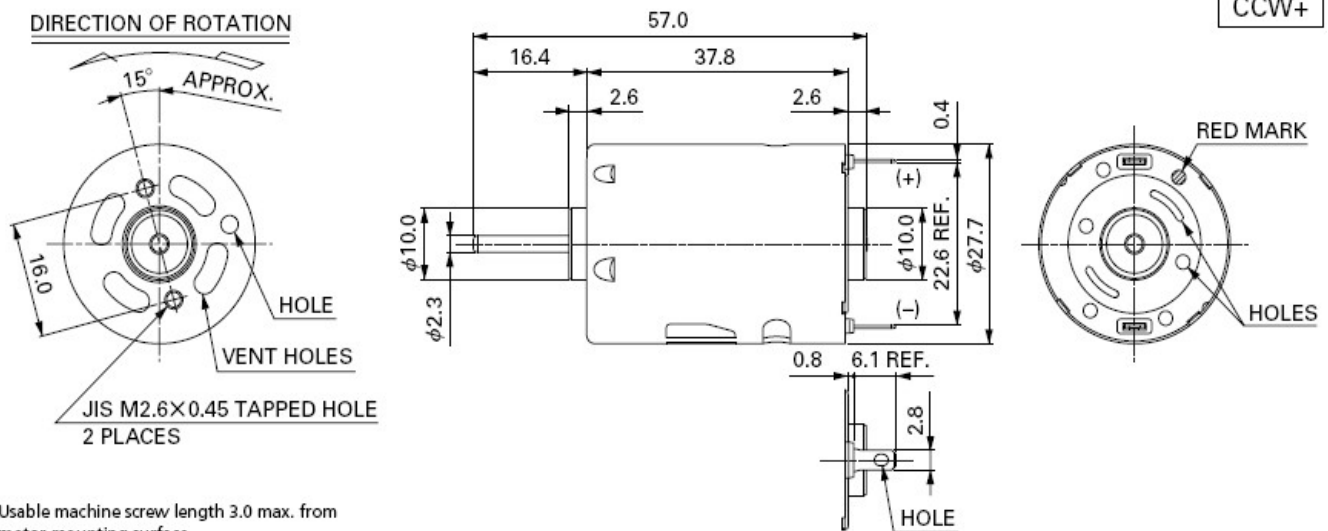
DC Motor $\Phi 28$



RS-385SH/SA-XXXXX

Design	
Commutator	Copper/5-segments
RFI Protection	
Insulation class	Winding F, Other wise A
Protection class	IP 20
Commutation	Graphite/copper-carbon brushes
Armature	straight slot
Magnet system	Ferrite magnets, 2-pole
Bearings	2 sintered bronze Oil bearings
Housing	Steel, corrosion protected
End shields	PA66+16GF (or steel)

Type RS-385SH/SA-XXXXX			2270	2073*
Characteristics*				
Rated voltage	V	V	24.0	20.0
Rated power	P_N	W	24	14.3
Rated torque	T_N	mNm	9.56	9.49
Rated speed	n_N	rpm	14010	14420
Rated current	I_N	A	1.06	1.04
No load characteristics*				
No load speed	n_0	rpm	16400	17200
No load current	I_0	A	0.18	0.2
Starting characteristics*				
Starting torque	T_s	mNm	65.7	58.8
Starting current	I_s	A	6.2	5.4
Motor parameters*				
Weight	G	g	70	70
Temperature range	T	°C	-10~60	-10~55
Humidity at room temperature	rel.F	%	15%~60%	15%~60%



UNIT: MILLIMETERS

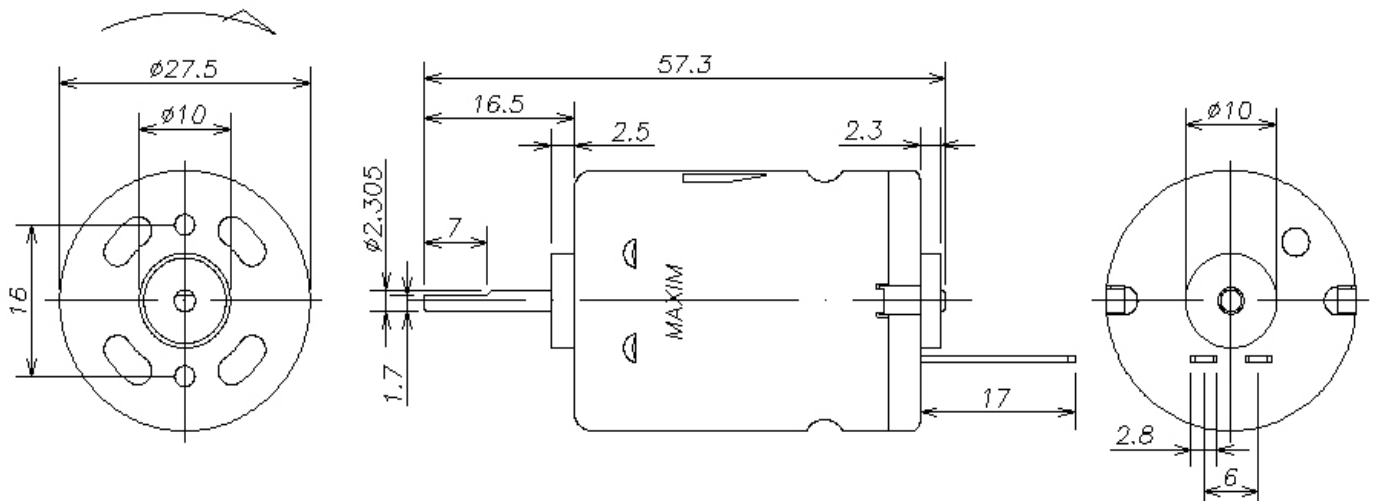
DC Motor Φ28



RT-385SA-XXXXX

Design	
Commutator	Copper/5-segments
RFI Protection	
Insulation class	Winding F, Other wise A
Protection class	IP 20
Commutation	Graphite/copper-carbon brushes
Armature	straight slot
Magnet system	Ferrite magnets, 2-pole
Bearings	2 sintered bronze Oil bearings
Housing	Steel, corrosion protected
End shields	PA66+16GF(or steel)

Type RT-385SA-XXXXX			30105L	28105L
Characteristics*				
Rated voltage	V	V	13.0	13.0
Rated power	P _N	W	33	24.2
Rated torque	T _N	mNm	12.98	9.36
Rated speed	n _N	rpm	24300	24650
Rated current	I _N	A	3.92	3.07
No load characteristics*				
No load speed	n ₀	rpm	28300	29650
No load current	I ₀	A	0.64	0.63
Starting characteristics*				
Starting torque	T _s	mNm	91.23	55.35
Starting current	I _s	A	23.32	15.18
Motor parameters*				
Weight	G	g	74	74
Temperature range	T	°C	-10~60	-10~60
Humidity at room temperature	rel.F	%	15%~60%	15%~60%



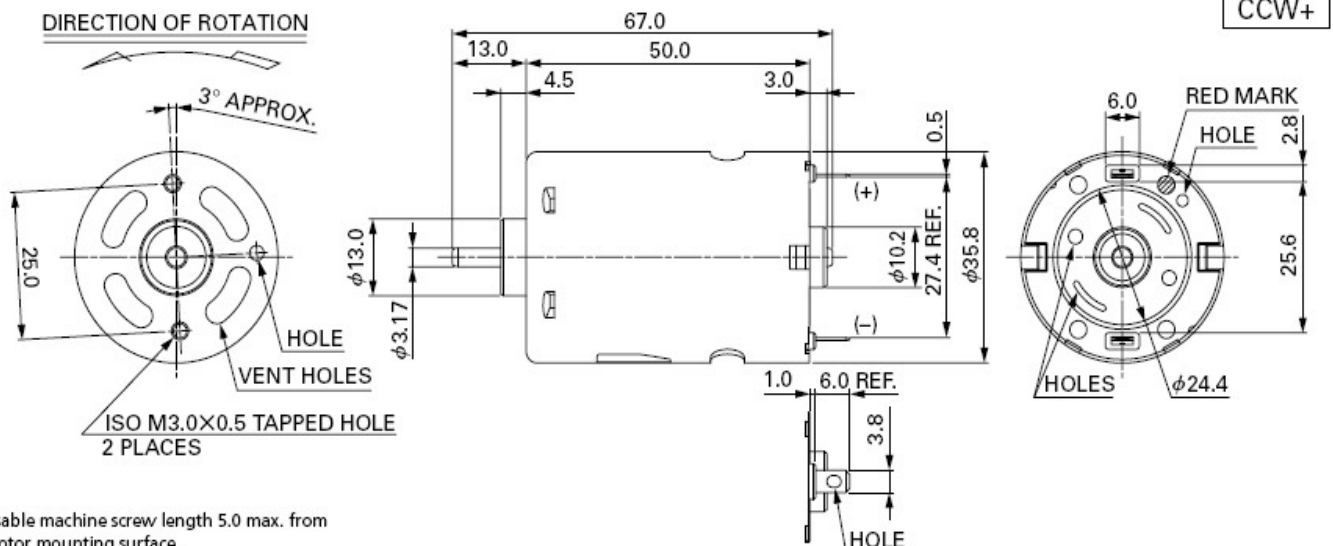
DC Motor Φ36



RS-540RH/SH-XXXXX

Design	
Commutator	Copper/3-segments
RFI Protection	
Insulation class	Winding F, Other wise A
Protection class	IP 20
Commutation	Graphite/copper-carbon brushes
Armature	straight slot
Magnet system	Ferrite magnets, 2-pole
Bearings	2 sintered bronze Oil bearings
Housing	Steel, corrosion protected
End shields	Steel, corrosion protected

Type RS-540RH/SH-XXXXX			7516	5045*
Characteristics*				
Rated voltage	V	V	3.6	12.0
Rated power	P _N	W	25.8	50.1
Rated torque	T _N	mNm	15.1	31.8
Rated speed	n _N	rpm	16310	15080
Rated current	I _N	A	12.2	5.93
No load characteristics*				
No load speed	n ₀	rpm	20200	17500
No load current	I ₀	A	2.9	0.95
Starting characteristics*				
Starting torque	T _s	mNm	78.5	230
Starting current	I _s	A	51	37
Motor parameters*				
Weight	G	g	160	160
Temperature range	T	°C	-10~65	-10~55
Humidity at room temperature	rel.F	%	15%~60%	15%~60%



UNIT: MILLIMETERS

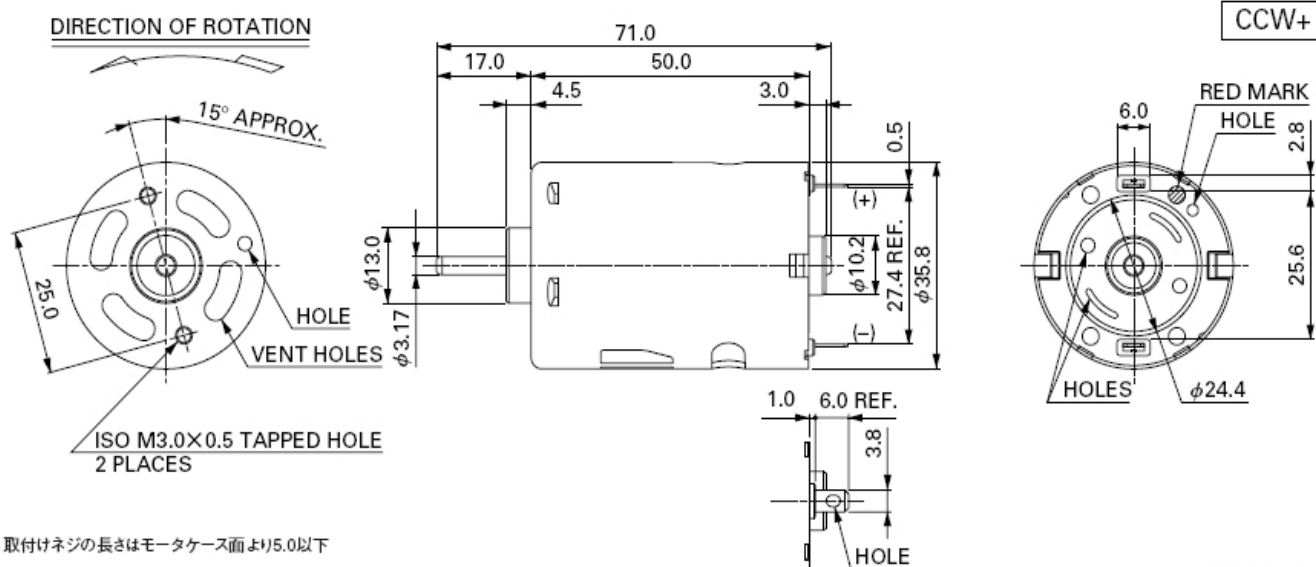
DC Motor Φ36



RS-545SH-XXXXX

Design	
Commutator	Copper/5-segments
RFI Protection	
Insulation class	Winding F, Other wise A
Protection class	IP 20
Commutation	Graphite/copper-carbon brushes
Armature	straight slot
Magnet system	Ferrite magnets, 2-pole
Bearings	2 sintered bronze Oil bearings
Housing	Steel, corrosion protected
End shields	Steel, corrosion protected

Type RS-545SH-XXXXX			5018	18150
Characteristics*				
Rated voltage	V	V	12.0	30.0
Rated power	P _N	W	66.7	10.9
Rated torque	T _N	mNm	31.1	18.2
Rated speed	n _N	rpm	20510	5720
Rated current	I _N	A	7.65	0.58
No load characteristics*				
No load speed	n ₀	rpm	24000	7000
No load current	I ₀	A	1.3	0.13
Starting characteristics*				
Starting torque	T _s	mNm	214	99.2
Starting current	I _s	A	45	2.59
Motor parameters*				
Weight	G	g	156	156
Temperature range	T	°C	-10~65	-10~55
Humidity at room temperature	rel.F	%	15%~60%	15%~60%



取付けネジの長さはモータケース面より5.0以下