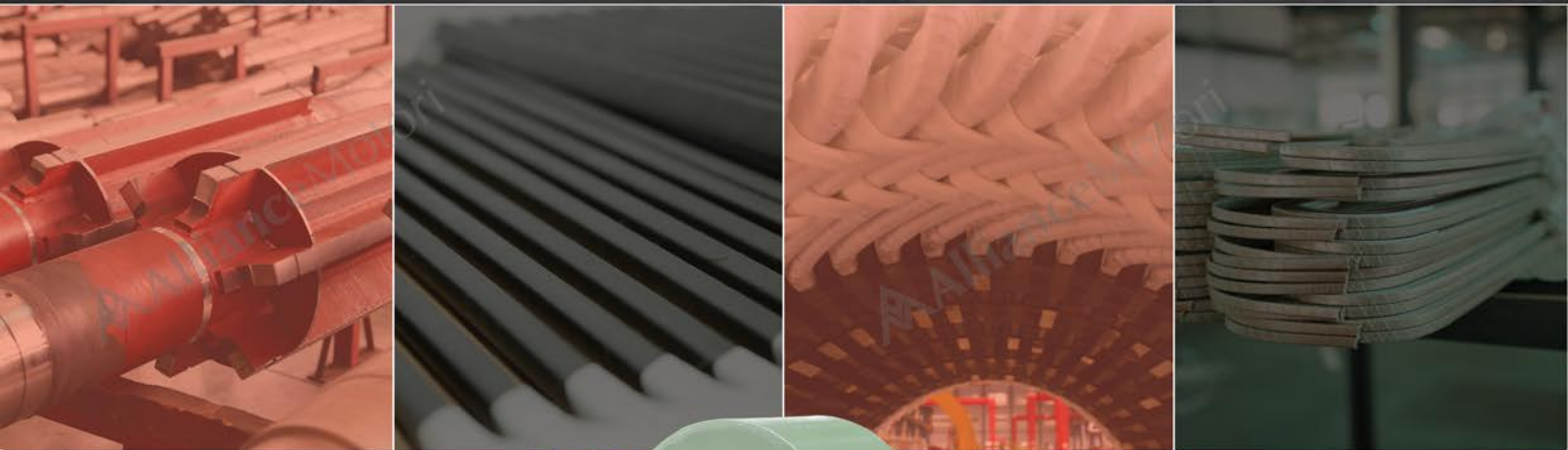


Alliance

HEAVY INDUSTRY ELECTRIC MOTOR



DC MOTOR
A-ZZJ SERIES



DC Motor - A-ZZJ Series

Features & Uses

ZZJ-800 motors are a kind of DC motors used for metallurgy & hoisting, available for steel rolling machine, crane, elevator and electric excavator etc.

The motors have lower moment of inertia(GD),higher overload capacity,and quicker speed response so that it is possible to undergo frequent starting, braking, and repeated change of direction of rotation. Moreover, the motors are reliable, perform well in speed regulating, and can be operated suitably on thyristor continue rolled supplies.

The sturdy unitary round frame structure is highly resistant to shock impact.All the windings are vacuum pressure impregnated with class F insulation, to form an integral construction with the laminated cores,ensuring high dielectric stability and excellent heat dissipation.Besides,the connection between armature winding and segment risers is employed by TIG welding (inert gas tungsten arc welding), thereby improving the electromechanical reliability.

Basic type of construction is horizontal foot-mounted and 2 shaft-end's which are 1:10 tapered. Terminal box is located at the right side of motor viewed from motor viewed from the main drive end.

Rating,performance and outline mounting dimension all conform to the standard of IEC publication 34-13 (edition 1980) "pecification for mill auxiliary motor", and national standard GB5227 "Specification for mill auxiliary D.C motor"

Modes of protection and cooling have 6 kinds:

- 1.Totally enclosed,self-cooling.IP44、 IC410
- 2.Drip-proof,force ventilated with built-on blower.IP23S、 IC06
- 3.Drip-proof,single pipe ventilated.IP23S、 IC17
- 4.Totally enclosed,double pipes ventilated.IP44、 IC37
- 5.Drip-proof, self-ventilated.IP23S、 IC01
- 6.Totally enclosed,force ventilated with air-to-water heat exchanger.IP44、 ICW37A86(only for ZZJ804-818).It many also be made into other different types on request.

DC Motor - A-ZZJ Series

(220V, 440V) Standardized Motors Rating (220V, 440V)

Frame size	Continuous rates (S1), ventilated or duty type (S2) 60min, totally enclosed			Duty type(S2) 30min, totally enclosed, series wound			Duty cycle(S3)30% totally enclosed②				Ventilation			Max starting torque④			Max armature moment of inertia GD ² (kg.m ²)	Max safe operating speed (r/min)	Excit Power (kw)	Weight (kg)					
	Speed at rated voltage			Series wound			Comp. Wound		Shunt Wound		风量 Volume (m ³ /s)	风压 Pressure (Pa)	Series wound (N.m)	Comp. Wound (N.m)	Shunt Wound (N.m)										
	Output (kw)	Series wound (r/min)	Comp. Wound (r/min)	Basic Speed (r/min)	Speed regulating via field weakening②		功率 Output (kw)	转速 Speed (r/min)	功率 Output (kw)	转速 Speed (r/min)						功率 Output (kw)					转速 Speed (r/min)				
					220V(r/min)	440V(r/min)					功率 Output (kw)	转速 Speed (r/min)													
802A①	3.75	900	1025	1025	1025/2050	1025/2050	5.0	750	4.1	840	3.75	1080	3.75	1130	0.052	190	157	125	158	123	102	0.50	3600	0.27	250
802B①	5.6	800	900	900	900/1800	900/1800	7.5	675	6.0	780	5.6	950	5.6	1000	0.052	190	270	216	268	210	177	0.72	3600	0.52	260
802C①	7.5	800	900	900	900/1800	900/1800	10.0	675	7.5	800	7.1	940	6.7	1000	0.076	250	360	237	360	280	220	0.72	3600	0.55	260
803	11.2	725	800	800	800/2000	800/1600	14.1	620	11.2	725	10.8	840	10.5	880	0.094	320	740	400	600	470	360	1.30	3300	0.60	390
804	15.0	650	725	725	725/1800	725/1450	19.5	580	15.0	650	13.8	775	12.7	800	0.12	320	1100	880	880	685	530	2.15	3000	0.70	490
806	22.4	575	650	650	650/1950	650/1300	29.0	500	22.4	575	21.2	690	18.6	715	0.16	380	1870	1500	1490	1170	880	4.15	2600	0.90	770
808	37.3	525	575	575	575/1725	575/1150	48.5	450	30.0	570	28	625	26.0	630	0.20	380	3400	2800	2700	2150	1650	8.6	2300	1.5	930
810	52	500	550	550	550/1650	550/1100	67.0	440	45.0	550	39	615	33.5	600	0.25	440	5000	4000	4000	3100	2450	12.6	2200	2.0	1370
812	75	475	515	515	515/1300	515/1050	100	420	63.5	525	56	580	45.0	565	0.35	500	7450	6250	6000	4900	3750	23	1900	2.2	1690
814	112	460	500	500	500/1250	500/1000	149	400	86	515	82	656	63.5	560	0.42	560	1600	9600	6400	9300	7500	39	1700	2.5	2500
816	150	450	480	480	480/1200	480/9600	200	400	112	500	104	540	82	535	0.57	630	16000	13300	8900	12600	10400	58	1600	3.8	3050
818	186	410	435	435	435/1100	435/870	243	360	138	485	123	490	97	470	0.75	750	17000	18400	12300	17400	14400	88	1500	4.2	4050

Note:

- (1) Frame size 802 is assigned 3 ratings. Mounting dimensions are identical for each rating, but electrical designs will be different.
- (2) A stabilizing series winding may be used to obtain these speed ranges.
- (3) Intermittent rating S3 is that: Assume FC=30%ED; within 5 minutes, load on for 1.5 min, stopped with power off for 3.5 min-cycling, with shunt field continuously excited.
- (4) Maximum attainable values with respect to other specified performance limitation, not applicable to voltage rising or field weakening.
- (5) The rated 220V motors can be run with boosting voltage up to 440V under condition that the rated current is not changed.
- (6) GD in the table is the calculated value.

DC Motor - A-ZZJ Series

Dimensions of Standardized Motors																						
Frame size	AB	BB	LC	H	A	B	XG	K	XH	BC BD	HD	ventilating Surface of flange							Coil-leads of motors			
												VB	VF	VD	VE	VC	VG	YA	YE	YH	YK	
802	381	521	831	193.5-0.5	318	419	95	22	20	304.5	400	22	10	10	184	121	56	10	127	219	76	
803	432	597	932	215.8-0.5	356	457	114	22	20	342.5	444	44	13	10	216	127	83	10	127	241	76	
804	457	648	983	228.5-0.5	381	483	127	22	20	368.5	470	57	13	10	229	140	70	10	127	254	76	
806	508	698	1073	254.0-1	419	533	127	26	24	393.5	521	54	13	10	260	152	86	10	127	179	76	
808	578	794	1200	285.5-1	476	629	130	33	30	444.5	584	51	13	19	292	165	89	10	178	318	76	
810	622	826	1274	311.0-1	521	660	146	33	30	476	635	54	13	19	305	178	92	10	178	343	76	
812	686	914	1388	339.5-1	572	724	159	33	30	521	692	64	16	19	349	210	124	10	178	371	76	
814	762	1054	1538	374.5-1	635	813	184	39	36	590.5	762	86	16	19	387	235	140	10	229	413	76	
816	826	1187	1703	406.2-1	686	889	216	39	36	660.5	829	114	25	19	406	279	168	10	229	444	114	
818	914	1264	1795	450.8-1	762	991	203	45	42	698.5	918	98	25	19	457	305	181	10	229	489	114	

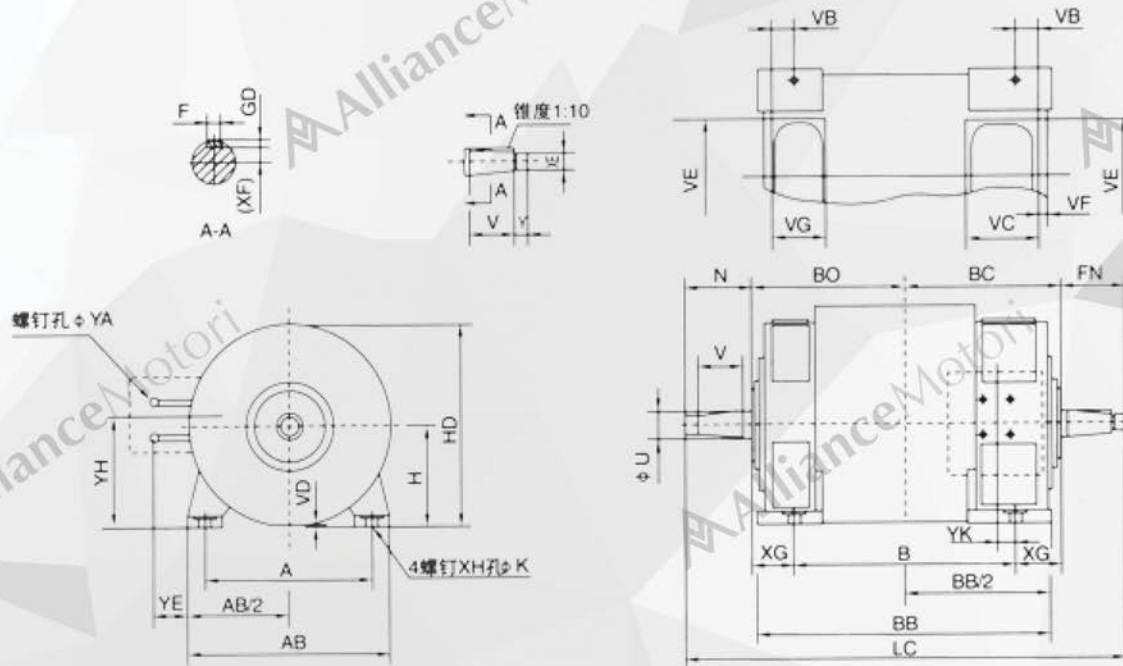
*Coil-leads are only for motor without terminal box

DC Motor - A-ZZJ Series

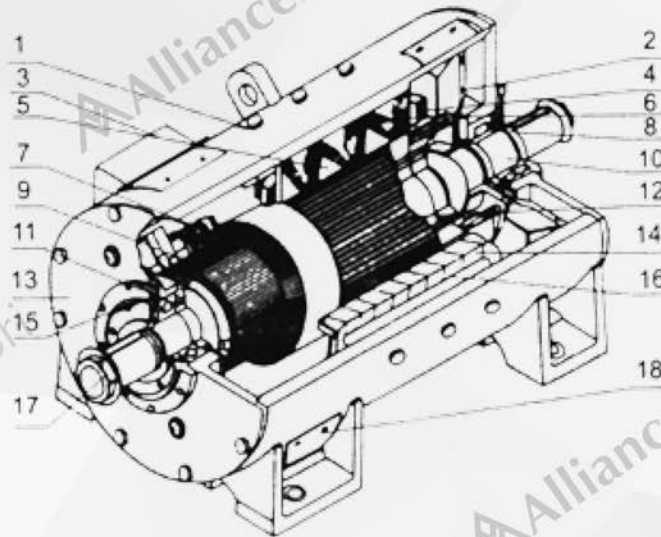
Shaft-end Dimensions of Standardized Motors

Frame size	Comical shaft-end(1:10) taper								
	Shaft-end dimension				Shaft-end thread			Key	
	N FN	U	V	(XF)	Y	XE	Pitch	F	GD
802	111	45	82	15.4	28	M30	2	12	8
803	123.5	50	82	17.9	28	M36	3	12	8
804	123	50	82	17.9	28	M36	3	12	8
806	143	65	105	23.9	35	M42	3	16	10
808	155.5	75	105	27.9	35	M48	3	18	11
810	161	85	90	31.7	40	M56	4	20	12
812	173	95	90	35.2	40	M64	4	22	14
814	178.5	110	120	41.9	45	M80	4	25	14
816	191	120	120	45.9	45	M90	4	28	16
818	199	130	150	50	40	M100	4	28	16

Outline Mounting Dimensions



DC Motor - A-ZZJ Series



- 1.Frame
- 2.Fan
- 3.Terminal box
- 4.Field winding
- 5.Main pole core
- 6.Armature winding
- 7.Brush rocker
- 8.Bearing
- 9.Commutator
- 10.Rotating shaft
- 11.Bearing cover
- 12.Armature
- 13.Endshield
- 14.Compole winding
- 15.Oil nipple
- 16.Compole core
- 17.Nut,washer
- 18.Viewing window

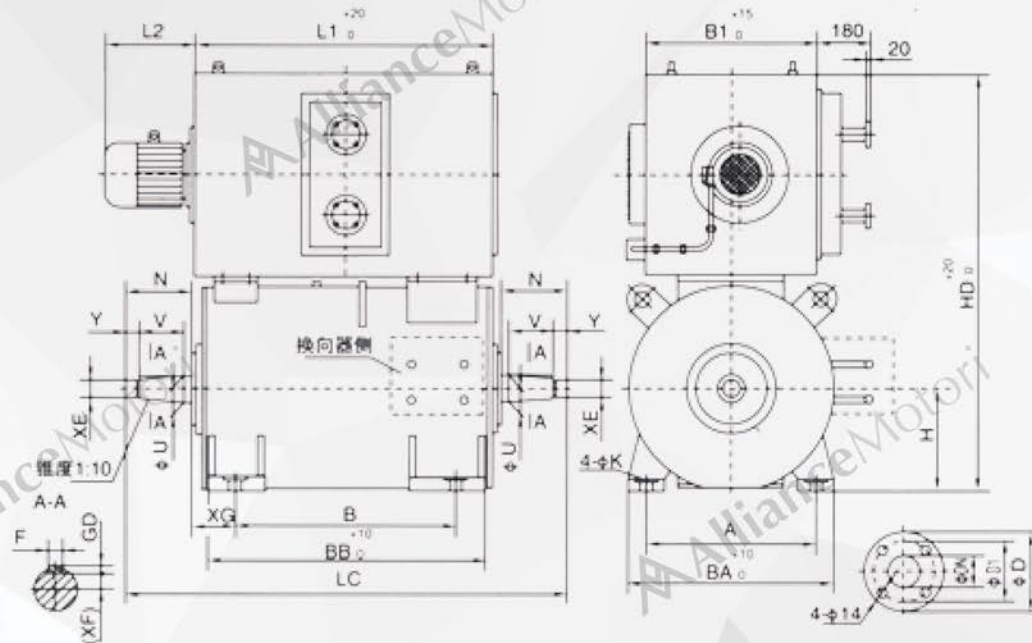
Unit of outlin mounting dimension:mm

Technical Data and Outline Mounting Dimensions of Air/water Cooling Machine

Frame size	L1	L2	B1	HD	DN	D1	D	Heat-exc hangin Power (kw)	Consumption of water (L/S)	Blower Power (kw)
804	720	250	570	1200	32	90	120	5	1.0	1.1
806	760	250	600	1240	32	90	120	6	1.2	1.1
808	810	250	600	1310	32	90	120	7	1.2	1.1
810	960	320	680	1360	32	90	120	13	2.2	3
812	960	320	680	1420	32	90	120	15	2.2	3
814	1030	340	680	1480	32	90	120	18	2.5	4
816	1140	340	680	1590	40	100	130	22	2.7	4
818	1240	400	720	1680	40	100	130	30	3.0	5.5

Note:The motors of the cooling blowers are all 3 phases, 380V,50HZ.

DC Motor - A-ZZJ Series



804-818 water inlet/outlet flange & connecting tube dimensions

Note to Customer on Ordering

1. Please refer to our catalogue before ordering. If the types, rating you need are not covered by our booklet, please contact us. Should you have specific needs, please offer us clear and concrete proposal in advance. A contract or pilot production agreement may be made, if the particular requirements are fixed by mutual consent.
2. Please write clearly the type, output, voltage, speed, excitation, exciting voltage, duty-cycle, type of construction, No. of shaft-end, location of terminal box, direction of rotation, as well as agreement No. name and quantity of necessary accessories and spare parts ect.
3. If the orders for export need foreign language operation instruction, please specify when ordering.
4. To match the advanced technology and raise the quality control as well as economic and technical factors so as to meet the increasing needs of our customers, the booklet is subject to relevant change without notice. If our literature does not answer all of your questions please contact us.



HEADLINE INDUSTRIA
ELECTRIC MOTOR



 www.alliancemotori.com

