

AllianceMotori

# YG2 RSKF

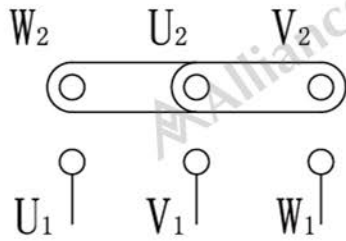


## PRODUCT DESCRIPTION

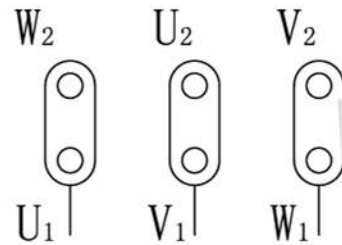
Site conditions	Motors are suitable for most working environment at temperature from -15°C to +40°C and altitude below 1000 meters.
Insulation	The motors' insulation system is set to Class F(105K), examined by Class B(80K), which ensure the life span and reliability of the motors.
Motor protection	Motors can be installed with PTC, PT100 ect. used as winding and bearing temperature measurement on request.
Voltage and frequency	Standard voltage and frequency is 380V 50HZ, and can be set to any single voltage in the range of 200-660V at a frequency of 50 or 60HZ. The motors work well within variations of $\pm 5\%$ from the rated voltage.
Vibration	Motors are designed to vibration class A, vibration class B is available on request.
Duty	Continuous(S1)
Cooling and ventilation	The standard cooling method is totally enclosed fan cooled(TEFC) in accordance with IC411 of IEC60034-6. Standard motors are equipped with auxiliary plastic fans.
Winding	100% Cooper Wire
Protection class	The standard protection class is IP54/IP55, which can be used in humid and dusty environment. Higher degrees of protection is available.
Quality assurance	From the first line of production designing till the finishing procedure, obey ISO9001 documented quality system.



## THREE PHASE MOTOR CONNECTING DIAGRAMS



Star Connection



Delta Connection

## MOUNTING TYPE

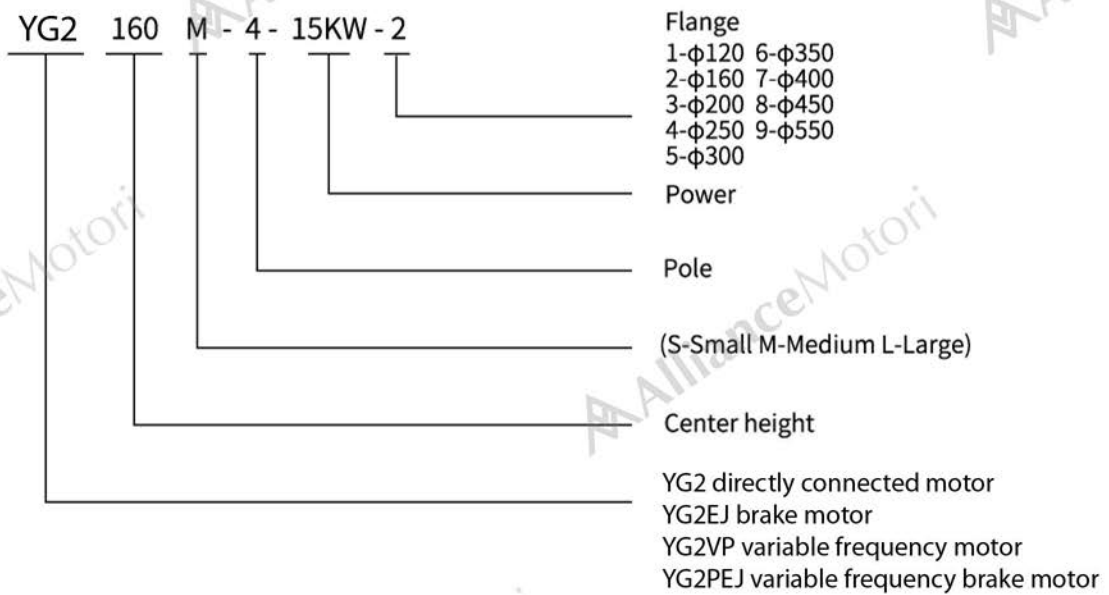
<b>IM V1</b> <b>IM 3011</b> 63-355		<b>IM V3</b> <b>IM 3031</b> 63-160		<b>IM V5</b> <b>IM 1011</b> 63-160		<b>IM V6</b> <b>IM 1031</b> 63-160	
<b>IM B14</b> <b>IM 3601</b> 63-132		<b>IM V15</b> <b>IM 2011</b> 63-160		<b>IM V17</b> <b>IM 2111</b> 63-132		<b>IM V18</b> <b>IM 3611</b> 63-132	
<b>IM V19</b> <b>IM 3631</b> 63-132		<b>IM B34</b> <b>IM 2101</b> 63-132		<b>IM V35</b> <b>IM 2031</b> 63-160		<b>IM V37</b> <b>IM 2131</b> 63-132	
<b>IM B3</b> <b>IM 1001</b> 63-355		<b>IM B5</b> <b>IM 3001</b> 63-280		<b>IM B6</b> <b>IM 1051</b> 63-160		<b>IM B7</b> <b>IM 1061</b> 63-160	
<b>IM B8</b> <b>IM 1071</b> 63-160		<b>IM B35</b> <b>IM 2001</b> 63-355		Fundamental arrangement Mounting arrangement Range of manufacture (frame size)			

**YG2 SPECIAL THREE - PHASE ASYNCHRONOUS MOTOR FOR SERIES GEAR REDUCER**



**MOTOR MODEL MEANING**

**YG2 160 M - 4 - 15KW - 2**



## WORKING CONDITIONS

- A) Ambient temperature: -15%°C~40°C
  - B) Altitude: not more than 1200m
  - C) Working mode: S1
  - D) Voltage: 380V (400V, 415V, 220/440V, 220-440/380-420V, etc.)
  - E) Frequency: 50Hz (or 60Hz as required)
  - F) Insulation grade: F
  - G) Protection level: IP55
  - H) Cooling method: 1C411
  - I) Optional accessories: encoder, rainproof wind hood, thermistor, thermal protector, etc
- Note: If you have special requirements on the above conditions please consult before placing an order

## PRODUCT FEATURES

- 1) The motors below 132 adopt the square aluminum chassis which is popular in the market at present, with beautiful appearance and compact structure. The motors adopt the design principle of double locking of shaft extension. The axial movement of the motor is eliminated, and the axial bearing capacity of the motor is increased. The shaft extension oil seal adopts the structure of double oil seal position, thus increasing the service life of the reducer.
- 2) The shaft material is quenched, the oil seal position is quenched at high frequency, the motor shaft extension step is adopted at R Angle transition, effectively avoid stress concentration phenomenon, the motor oil seal installation place is adopted guide Angle treatment, effectively avoid oil seal damage caused by oil seal assembly.
- 3) The motor has strong interchangeability. The motor flange can be interchanged arbitrarily with the same frame size; The motor junction box can be rotated in four directions; Greatly meet the personalized requirements of customers.
- 4) The motors are F grade insulated, safe, reliable, long life, etc.
- 5) Directly connected braking motor can brake quickly, position accurately and prevent sliding, etc., which can meet customers' different requirements and working conditions.
- 6) The direct-connected frequency conversion motor adopts special electromagnetic design. Through the frequency converter, the motor can be stepless speed regulation with wide speed range, small vibration, easy to realize various automatic control and other characteristics.



**YG2 PRODUCT PERFORMANCE DATA**

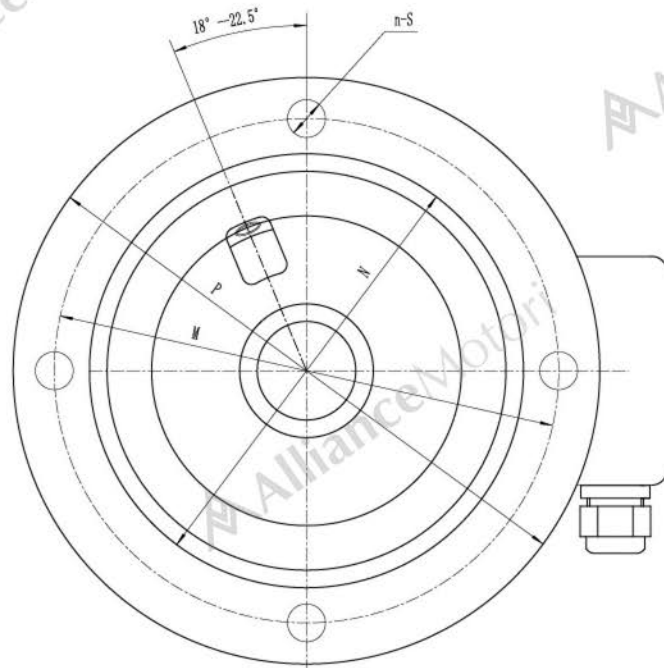
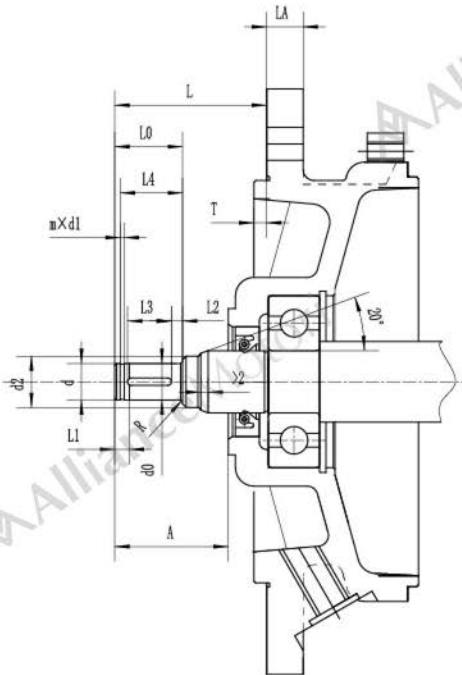
Model	Rated Power		Rated Speed	Efficiency 100%	Power Factor	Rated Current (A)			Rated Torque (NM)	Ts/Tn	Tmax/Tn	Is/In	Weight kg
	kW	HP				380V	400V	415V					
YG2-631-4	0.12	0.18	1310	60	0.63	0.51	0.48	0.46	0.87	2.4	2.4	6	4.2
YG2-632-4	0.18	0.25	1310	64	0.66	0.66	0.62	0.6	1.31	2.4	2.4	6	4.5
YG2-711-4	0.25	0.37	1330	67	0.68	0.83	0.79	0.76	1.8	2.4	2.4	6	6
YG2-712-4	0.37	0.5	1330	69.5	0.72	1.14	1.08	1.04	2.66	2.4	2.4	6	7
YG2-801-4	0.55	0.75	1390	77.1	0.75	1.4	1.37	1.32	3.75	2.3	2.3	5.2	14
YG2-802-4	0.75	1	1390	79.6	0.76	1.9	1.79	1.72	5.12	2.4	2.5	5	15
YG2-90S-4	1.1	1.5	1400	81.4	0.77	2.7	2.53	2.44	7.3	2.4	2.5	6	19
YG2-90L-4	1.5	2	1400	82.8	0.78	3.5	3.35	3.23	9.91	2.7	3	6.8	22
YG2-100L1-4	2.2	3	1430	84.3	0.80	5.0	4.71	4.54	14.6	2.7	3	7	30
YG2-100L2-4	3	4	1430	85.5	0.81	6.6	6.25	6.03	19.9	2.6	2.8	7	33
YG2-112M-4	4	5.5	1440	86.6	0.81	8.7	8.23	7.93	26.4	2.6	2.8	7.5	41
YG2-132S-4	5.5	7.5	1440	87.7	0.82	11.6	11.04	10.64	36.1	2.2	2.8	6.4	56
YG2-132M-4	7.5	10	1440	88.7	0.83	15.5	14.70	14.17	49.2	2.2	2.8	7	67
YG2-160M-4	11	15	1460	89.8	0.83	22.4	21.30	20.53	72	2.1	2.8	6.9	101
YG2-160L-4	15	20	1460	90.6	0.84	29.9	28.45	27.42	98.1	2.1	2.8	7.5	132
YG2-180M-4	18.5	25	1470	91.2	0.85	36.3	34.45	33.20	120.2	2.1	2.8	7.8	140
YG2-180L-4	22	30	1470	91.6	0.85	42.9	40.78	39.31	142.9	2.1	2.8	7.5	160
YG2-200L-4	30	40	1470	92.3	0.85	58.1	55.19	53.20	194.9	2	2.5	7.1	222
YG2-225S-4	37	50	1480	92.7	0.86	70.5	66.99	64.57	238.8	2	2.5	7.5	272
YG2-225M-4	45	60	1480	93.1	0.86	85.4	81.13	78.19	290.4	2	2.5	7.6	296
YG2-250M-4	55	75	1480	93.5	0.86	103.9	98.73	95.16	354.9	1.8	2.2	7.3	372
YG2-280S-4	75	100	1480	94.0	0.87	139.3	132.38	127.59	484	1.8	2.2	7.6	546
YG2-280M-4	90	125	1480	94.2	0.88	165.0	156.71	151.05	580.7	1.8	2.2	7.5	638

YG2 INTERFCE DIMENSION DATA

Stand No.	Power kW	Flange							Shaft extension			Guide		Oil seal
		P	M	N	T	LA	S	n	L	L0	D0	D	L1	
63	0.18	120	100	80	3	8	6.6	4	36	18.5	10	10	4	17×30×7
71	0.25	160	130	110	3.5	10	9	4	41.5					
		0.37	200	160	130	3.5	12	11	4	47.5	20.5	12	12	4.5
80M	0.55	120	100	80	3	8	6.6	4	36					
		160	130	110	3.5	10	9	4	41.5					
		200	160	130	3.5	12	11	4	47.5					
		250	215	180	4	15	14	4	52.5					
	0.75	300	265	230	4	16	14	4	62	22.5	14	14	6.5	30×47×7
90S	1.1	120	100	80	3	8	6.6	4	36					
		160	130	110	3.5	10	9	4	41.5					
		200	160	130	3.5	12	11	4	49.5					
90L	1.5	250	215	180	4	15	14	4	53.5	26	16	16	6	30×47×7
100L	2.2	120	100	80	3	8	6.6	4	36					
		160	130	110	3.5	10	9	4	44					
		200	160	130	3.5	12	11	4	52					
		250	215	180	4	15	14	4	56					
		300	265	230	4	16	14	4	62					
	3	350	300	250	5	18	18	4	68	29	18	18	6	35×52×7
112M	4	160	130	110	3.5	10	9	4	44					
		200	160	130	3.5	12	11	4	53					
		250	215	180	4	15	14	4	58					
		300	265	230	4	16	14	4	63					
		350	300	250	5	18	18	4	69	36	22	22	8.5	40×62×7
132S	5.5	160	130	110	3.5	10	9	4	44					
		200	160	130	3.5	12	11	4	56					
		250	215	180	4	15	14	4	61					
		300	265	230	4	16	14	4	66					
		350	300	250	5	18	18	4	72					
		400	350	300	5	20	18	8	79					
132M	7.5	450	400	350	5	22	18	8	87	41	28	28	11	55×90×10
160M	11	200	160	130	3.5	12	11	4	61					
		250	215	180	4	15	14	4	66					
		300	265	230	4	16	14	4	71					
160L	15	350	300	250	5	18	18	4	77					

YG2 INTERFACE DIMENSION DATA

Stand No.	Power KW	Flange							Shaft extension			向Guide		Oil seal
		P	M	N	T	LA	S	n	L	L0	D0	D	L1	
160M 160L	11	400	350	300	5	20	18	8	84	41	28	28	11	55×90×10
	15	450	400	350	5	22	18	8	92					
		550	500	450	5	25	18	8	100					
180M 180L	18.5 22	250	215	180	4	15	14	4	66	41	32	32	11	55×90×10
		300	265	230	4	16	14	4	71					
		350	300	250	5	18	18	4	77					
		400	350	300	5	20	18	8	84					
		450	400	350	5	22	18	8	92					
		550	500	450	5	25	18	8	100					
200L 225S 225M	30	300	265	230	4	16	14	4	71	41	38	38	11	70×90×12
	47	350	300	250	5	18	18	4	77					
	45	400	350	300	5	20	18	8	84					
		450	400	350	5	22	18	8	92					
		550	500	450	5	25	18	8	100					
250M 280S 280M	55	400	350	300	5	20	18	8	86	46	48	48	12	70×90×12
	75	450	400	350	5	22	18	8	94					80×100×10
	90	550	500	450	5	25	18	8	102					





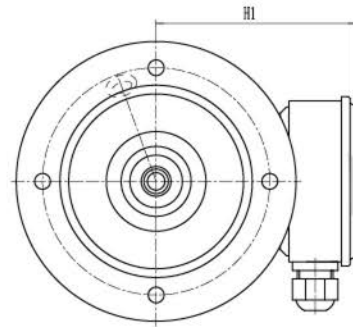
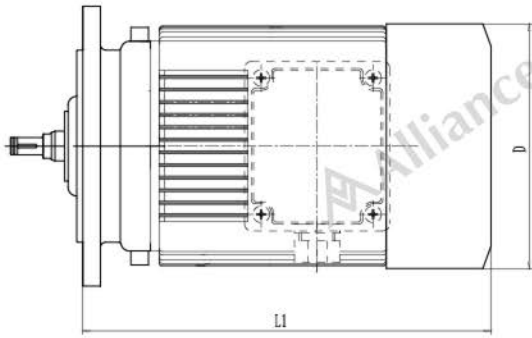
YG2 CONTOUR INSTALLATION DIMENSION DRAWING DATA

Center for high	Flange Diameter	L1	L2	L3	L4	D	H1	H2
63	120	221	266	279	328	123	/	98
	160	215.5	260.5	273.5	322.5			
	200	209.5	254.5	267.5	316.5			
71	120	239	297	297	344	140	114	104
	160	233.5	291.5	291.5	338.5			
	200	227.5	285.5	285.5	332.5			
80	120	270.5	317.5	314.5	377.5	150	119	124
	160	265	312	309	372			
	200	259	306	303	366			
	250	254	301	298	361			
	300	243.5	290.5	287.5	350.5			
90	120	318	391	358	425	171	139.5	126
	160	312.5	385.5	352.5	419.5			
	200	304.5	377.5	344.5	411.5			
	250	300.5	373.5	340.5	407.5			
	300	292	365	332	399			
100	120	367.5	437.5	395.5	467.5	195	152	134
	160	359.5	429.5	387.5	455.5			
	200	351.5	421.5	379.5	447.5			
	250	347.5	417.5	375.5	444.5			
	300	341.5	411.5	369.5	438.5			
	350	375.5	405.5	363.5	432.5			
112	160	368	431	396	476	216	169	162
	200	359	422	387	467			
	250	354	417	382	462			
	300	349	412	377	457			
	350	343	406	371	451			
132M	200	413	512	456	548	258	189.5	175
	250	408	507	451	543			
	300	403	502	446	538			
	350	397	496	440	532			
	400	390	489	437	525			
	450	382	481	429	517			
160M	200	509	609	544	629	314	262	232
	250	504	604	539	624			
	300	499	599	534	619			
	350	493	593	528	613			
	400	486	586	521	606			
	450	478	578	513	598			
	550	470	570	505	590			

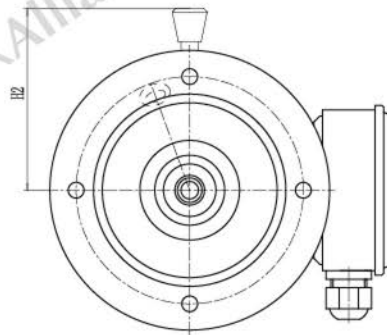
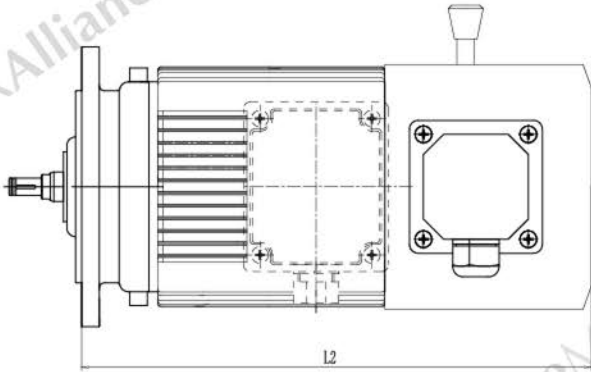
**YG2 CONTOUR INSTALLATION DIMENSION DRAWING DATA**

Center for high	Flange Diameter	L1	L2	L3	L4	D	H1	H2
160L	200	553	653	588	673	314	262	232
	250	548	648	583	668			
	300	543	643	578	663			
	350	537	637	572	657			
	400	530	630	565	650			
	450	522	622	557	642			
	550	514	314	549	634			
180M/L	250	578	378	608	720	355	277	/
	300	573	673	603	715			
	350	567	667	597	709			
	400	560	660	590	702			
	450	552	652	582	694			
	550	544	644	574	686			
200L	300	698	851	761	914	397	313.5	/
	350	692	845	755	808			
	400	685	838	748	807			
	450	677	830	740	799			
	550	669	822	732	791			
225S	300	716	849	789	921	446	334	/
	350	710	843	783	915			
	400	703	836	776	908			
	450	695	828	768	900			
	550	687	820	760	892			
225M	300	741	874	814	946	446	334	/
	350	735	868	808	940			
	400	728	861	801	933			
	450	720	853	793	925			
	550	712	845	785	917			
250M	350	806	970	850	1014	485	368	/
	400	799	963	843	1007			
	450	791	955	835	999			
	550	783	947	827	991			
280S	400	854	1014	899	1059	547	407	/
	450	846	1006	891	1051			
	550	838	998	883	1043			
280M	400	905	1065	950	1110	547	407	/
	450	897	1057	942	1102			
	550	889	1049	936	1094			

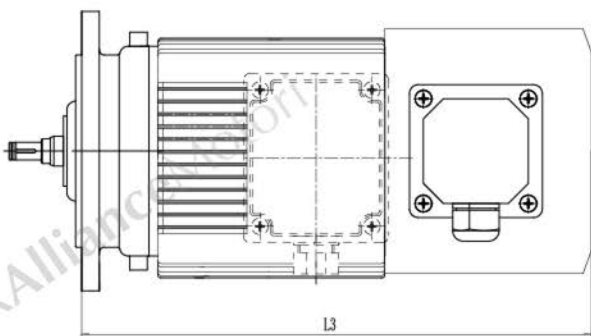
YG2 Sereis



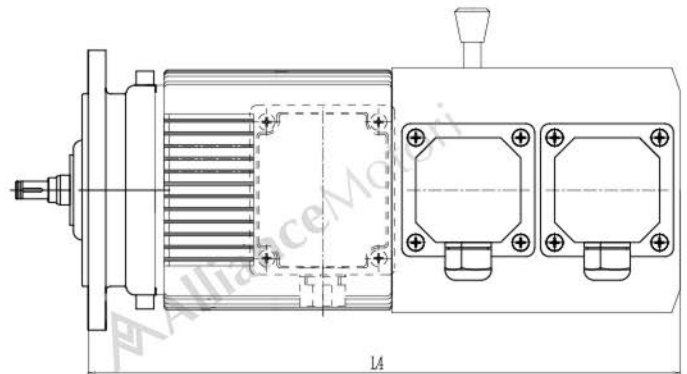
YG2EJ Series



YG2VP Series



YG2PEJ Series





# AllianceMotori



The company has an experienced technical operation team with more than 30 years of experience in industrial motor design and implementation.