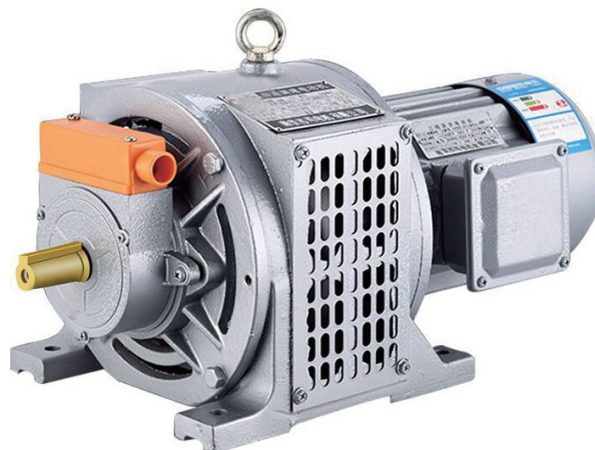


YCT

YCT 系列电磁调速电动机 series speed-adjusting electromagnetic motor

YCT系列电磁调速电动机广泛应用于恒转矩无级调速的各种场合，如：纺织、化工、电影制片、化学纤维、冶金、造纸、水泥、橡胶、电线、制糖、塑料、发电厂等工业设备，适用于拖动转矩递减的离心式水泵和风机负载。功率范围：0.55~90kW 电动机中心高：112~335mm

YCT series of electromagnetic speed motor is widely used in constant torque stepless speed regulation of various occasions, such as: textile, chemicals, film production, chemical fiber, metallurgy, paper, cement, rubber, wire, sugar, plastic, Power plants and other industrial equipment for drag torque reduction of the centrifugal pump and fan load. Power range: 0.55 ~ 90kW Motor Center High: 112 ~ 335mm

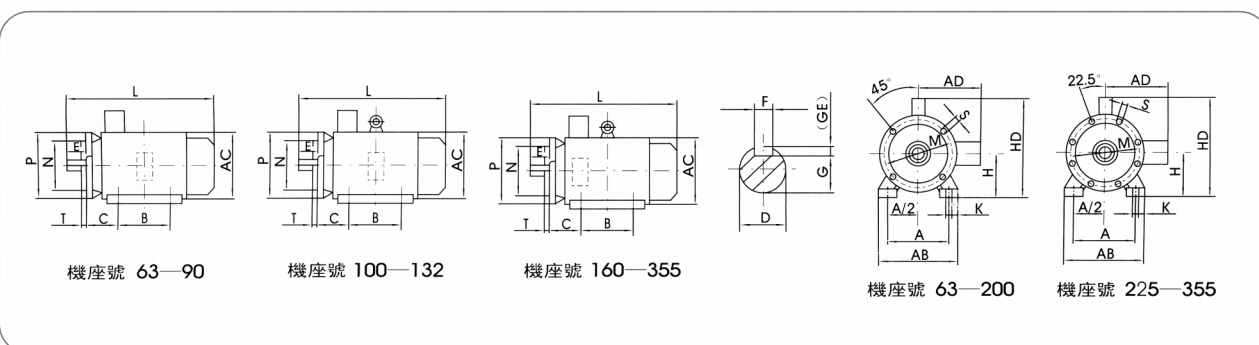


型号 Type	标称功率 Nominal output kW	额定转矩 Rated Torque N.m	额定调速范围 Speed Range r/min	型号 Type	标称功率 Nominal output kW	额定转矩 Rated Torque N.m	额定调速范围 Speed Range r/min
YCT112-4A	0.55	3.6	1230~125	YCT225-4B	15	94	1250~125
YCT112-4B	0.75	4.9	1230~125	YCT250-4A	18.5	110	1320~132
YCT132-4A	1.1	7.1	1230~125	YCT250-4B	22	137	1320~132
YCT132-4B	1.5	9.7	1230~125	YCT280-4A	30	189	1320~132
YCT160-4A	2.2	14.1	1250~125	YCT315-4A	37	232	1320~132
YCT160-4B	3	19.2	1250~125	YCT315-4B	45	282	1320~132
YCT180-4A	4	25.2	1250~125	YCT355-4A	55	344	1340~440
YCT200-4A	5.5	36.1	1250~125	YCT355-4B	75	469	1340~440
YCT200-4B	7.5	47.7	1250~125	YCT225-4B	90	564	1340~600
YCT225-4A	11	69	1250~125				

型号 Type		CTK-A30 (JD21A-40)	CTK-A90 (JD21A-90)	CTK-B30 (JD21B-40)	CTK-B90 (JD21B-90)
电源 Input power	电压V	220±10%			
	频率Hz	50±2%			
额定直流输出DC Rated Output	电压V	≥80			
	电流A	4	6.3	4	6.3
可控电机功率kW Power range of controlled motor		0.55~30	37~90	0.55~30	37~90
转速变化率% Speed variation ratio		2.5		1.0	
稳速精度% Accuracy of speed stability		≤1			
端子标志 Terminal Mark	输入 input 1相线 phase terminal 2零线 zero line	输出 output 3+ 4-		测速发电机 tachogenerator 5 6 7	

附录 II - YX3、YE3、YD2、YEJ2、YVF2系列电动机外形及安装尺寸

Appendix II-YX3、YE3、YD2、YEJ2、YVF2 series motor shapes and installation dimensions



機座帶底脚，端蓋上有凸緣(帶通孔)的電動機

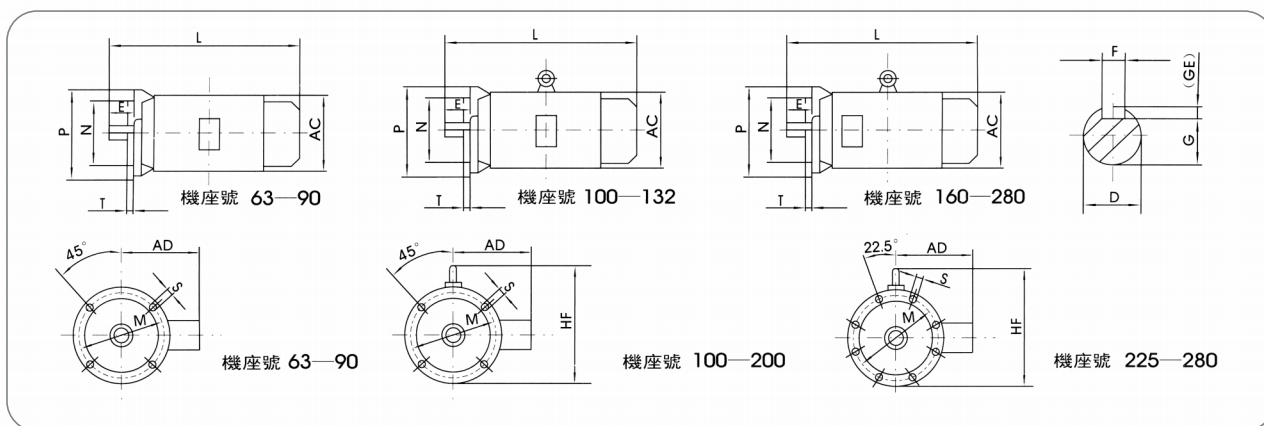
Frame with foot end, shield with flange(with through hole)

单位: mm

机座号 Frame size	凸 缘 号 Flange size	极数 Poles	安 装 尺 寸 Fixing Measurement																外 形 尺 寸 Figure size							
			A	A/2	B	C	D	E	F	G	H	K	M	N	P	R	S	T	凸緣孔數 Range holes	AB	AC	AD	HD	L		
			Y22, YK3, Y23, YD2	YVF2	YEJ2																					
63M	FF115	2、4	100	50	80	40	11	23	4	8.5	63	7	115	95	140		10	3		135	130	70	180	230	/	/
71M	FF130	2、4、6	112	56	90	45	14	30	5	11	71		130	110	160					150	145	80	195	255	/	/
80M	FF165	2、4、6、8	125	62.5	100	50	19	40	6	15.5	80	10	165	130	200		12	3.5		165	175	145	220	295	370	390
90S			140	70	100	56	24	50		20	90									180	195	155	250	320	380	420
90L					125																			345	410	445
100L			160	80	140	63	28	60		24	100	12	215	180	250					205	215	180	270	385	465	480
112M	190		95	140	70					112						15	4	4	230	240	190	300	400	480	510	
132S	FF265		216	108	140	89	38	80	10	33	132		265	230	300					270	275	210	345	470	530	585
132M					178																		510	570	625	
160M	FF300		254	127	210	108	42		12	37		15	300	250	350					320	330	255	420	615	660	720
160L					254																		670	715	765	
180M			279	139.5	241	121	48	110		14	42.5	180								355	380	280	455	700	775	825
180L				279																			740	815	875	
200L	FF350	318	159	305	133	55		16	49	200		350	300	400					395	420	305	505	770	850	900	
225S	FF400	4、8			286		60	140	18	53		19											815	885	1000	
225M		2	356	178		149	55	110	16	49	225		400	350	450					435	470	335	560	820	915	1000
		4、6、8			311												0	19	5					845		1030
250M	FF500	2	406	203	349	168			18		250									490	510	370	615	910	980	
280S		4、6、8				65				58																
		2				65																				
280M		4、6、8	457	228.5	368	190		140	20	67.5		24	500	450	550					550	580	410	680	985	1085	
	2				65				18	58	280												1035	1135		
315S	FF600	2				65			18	58								8						1178	1285	/
		4、6、8、10			406																					
315M		2	508	254	457	216						315	600	550	660					635	645	490	800	1208		
315L		4、6、8、10			508							28												1290	1395	/
355M	FF740	2				75	140	20	67.5															1500		
		4、6、8、10			560																			1530		
355L		2	610	305		254							740	680	800					730	710	530	880	1500	/	
		4、6、8、10			630																			1530		

附录 III - YX3、YE3、YD2、YEJ2、YVF2系列电动机外形及安装尺寸

Appendix III-YX3, YE3, YD2, YEJ2, YVF2 series motor shapes and installation dimensions

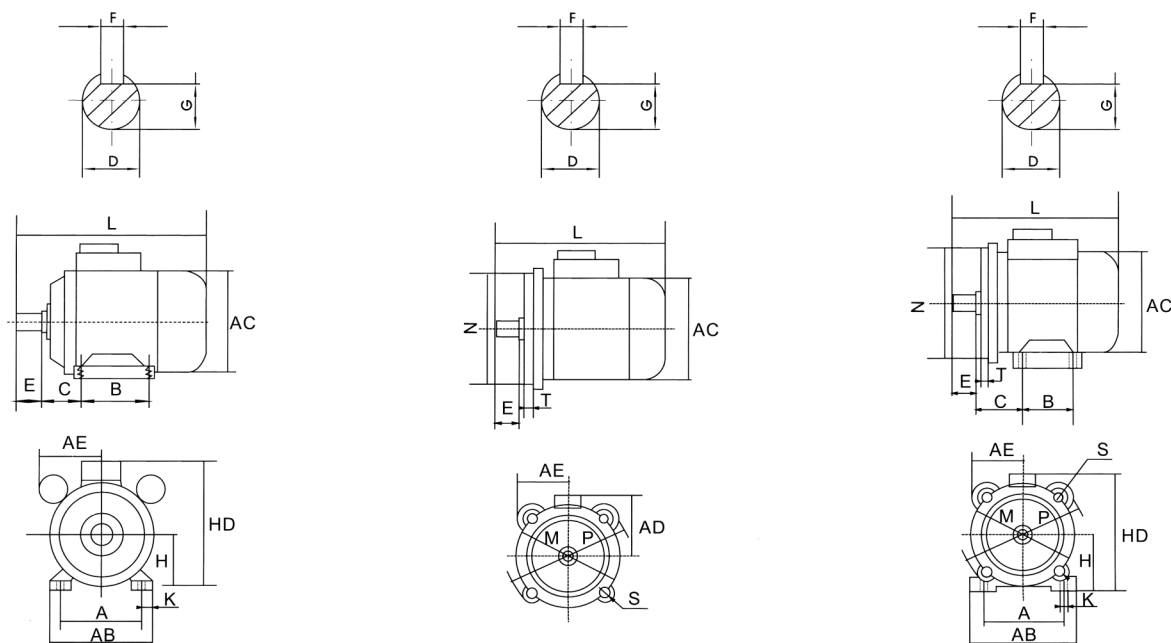


单位: mm

机座号 Frame size	凸缘号 Flange size	极数 Poles	安 装 尺 寸 Fixing Measurement											凸缘孔数 Flange holes	外 形 尺 寸 Figure size										
			D	E	F	G	M	N	P	R	S	T	AC		AD	HD	L								
																	YE2、YX3、YE3、YD2	YVF2	YEJ2						
63M	FF115	2、4	11	23	4	8.5	115	95	140		10	3		130	70	130	230	／	／						
71M	FF130	2、4、6	14	30	5	11	130	110	160					145	80	145	255								
80M	FF165	2、4、6、8	19	40	6	15.5	165	130	200	0	12	3.5	4	175	145	185	295	370	390						
90S			24	50	8	20								195	155	195	320	380	420						
90L														345	410	445									
100L	FF215		28	60	24	215	180	250	15		4	215		180	245	385	465	480							
112M												240		190	265	400	480	570							
132S	FF265		38	80	10	33	265	230	300		15	4		4	275	210	315	470	530	585					
132M															510	570	625								
160M	FF300		42	110	12	37	300	250	350		0	19		5	8	330	255	385	615	660	720				
160L																670	715	765							
180M			48		14	42.5										380	280	430	700	775	825				
180L																740	815	875							
200L	FF350		55		16	49	350	300	400			420		305		480	770	850	900						
225S	FF400	4、8	60	140	18	53	400	350	450			19	5	8		470	335	535	815	880	1000				
225M		2	55	110	16	49													820	915	1000				
		4、6、8	60	140	18	53													845			1030			
250M	2	4、6、8					65	58	500							450	550	510	370	595	910	980	／		
	280S		2		4、6、8	75												20	67.5	580	410	650		985	1085
280M		2	65				18	58																1035	1135
		4、6、8	75				20	67.5																	

附录 VI - YL系列单相双值电容异步电动机

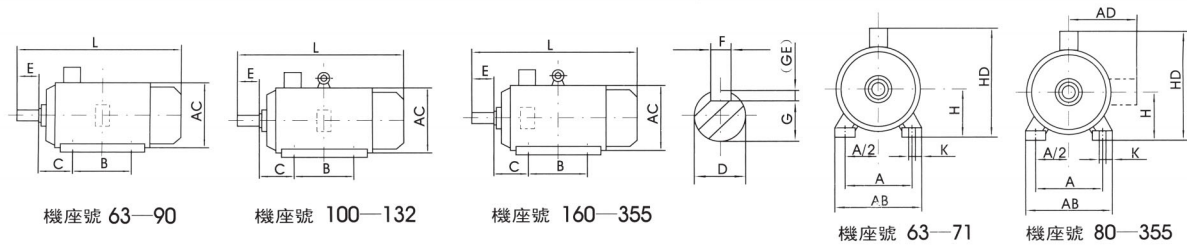
Appendix VI-YL series single-phase dual-value Capacitor Induction Motors



单位: mm

机座号 Frame size	安 装 尺 寸 Fixing Measurement																			外 形 尺 寸 Figure size							
										IMB14.IMB34						IMB5.IMB35											
	A	B	C	D	E	F	G	H	K	M	N	P	R	S	T	M	N	P	R	S	T	AB	AC	AD	AE	HD	L
71	112	90	45	14	30	5	11	71	7	85	70	1.5	0	M6	2.5	-	-	-	-	-	-	145	145	140	105	180	255
80	125	100	50	19	40	6	15.5	80	10	100	80	120	0	M6	2.5	-	-	-	-	-	-	160	165	150	120	200	295
90S	140	100	56	24	50	8	20	90	10	115	95	140	0	M8	3	-	-	-	-	-	-	180	185	160	130	240	370
90L	140	125	56	24	50	8	20	90	10	115	95	140	0	M8	3	-	-	-	-	-	-	180	185	160	130	240	400
100L	160	140	63	28	60	8	24	100	12	-	-	-	-	-	-	215	180	250	0	15	4	205	220	180	130	260	430
112M	190	140	70	28	60	8	24	112	12	-	-	-	-	-	-	215	180	250	0	15	4	245	250	190	140	300	455
132S	216	140	89	38	60	10	33	132	12	-	-	-	-	-	-	215	180	250	0	15	4	280	290	210	155	300	525

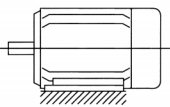
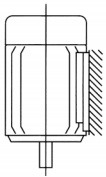
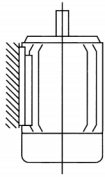
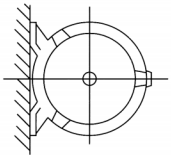
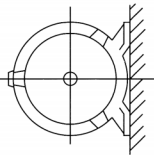
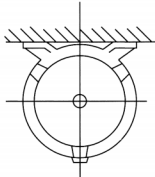
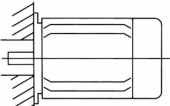
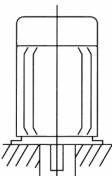
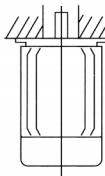
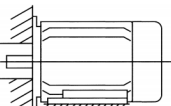
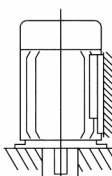
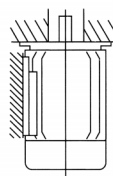
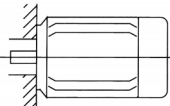
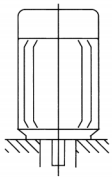
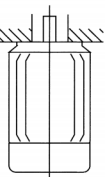
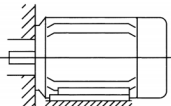
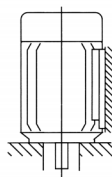
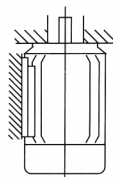
附录 I - YX3、YE3、YD2、YEJ2、YVF2系列电动机外形及安装尺寸



单位: mm

机座号 Frame size	极数 Poles	安 装 尺 寸 Fixing Measurement										外 形 尺 寸 Figure size								
		A	A/2	B	C	D	E	F	G	H	K	AB	AC	AD	HD	L				
																YE2、YX3、YE3、YD2	YVF2	YEJ2		
63M	2、4	100	50	80	40	11	23	4	8.5	63	7	135	130	70	180	230	/	/		
71M	2、4、6	112	56	90	45	14	30	5	11	71		150	145	80	195	255				
80M		125	62.5	100	50	19	40	6	15.5	80	10	165	175	145	220	295	370	390		
90S	2.4.6.8	140	70	100	56	24	50	20	90	100		12	180	195	155	250	320	380	420	
90L				125													345	410	445	
100L		160	80	140	63	28	60	24	112	205	215	180	270	385	465	480				
112M		190	95	140	70												230	240	190	300
132S		216	108	140	89	38	80	10	33	132	15	270	275	210	345	470	530	585		
132M				178												510	570	625		
160M		254	127	210	108	42	110	12	37	160	15	320	330	255	420	615	660	720		
160L				254												670	715	765		
180M		279	139.5	241	121	48	110	14	42.5	180	15	355	380	280	455	700	775	825		
180L				279												740	815	875		
200L	318	159	305	133	55	110	16	49	200	19	395	420	305	505	770	850	900			
225S	4、8	356	178	286	149		60	18	53		225	24	435	470	335	560	815	885	1000	
225M	2			311		55	110	16	49	820							915	1000		
	4、6、8	406	203	349	168	60	140	18	53	250	24	490	510	370	615	910	980	/		
250M	2					65													18	58
280S	2	457	228.5	368	190	140	20	67.5	280	28	550	580	410	680	985	1085	/			
280M	4、6、8			419			65	18										58	1035	1135
	2						75	20										67.5		
315S	2			508			254	406										216	65	18
315M	4、6.8.10	457	80		22	71		1208												
	2		65		170	22		71	1290	1395										
315L	4、6.8.10	508	65		140	18		58	1290											
	2		80		170	22		71	1320											
355M	2	610	305		560	254		75	140	20	67.5	355	730	710	530	880	1500		/	/
355L	4、6.8.10			630	95		170	25	86	1530										
	2				75		140	20	67.5	1500										
	4、6.8.10			95	170		25	86	1530											

国家电工委员会 IEC 60034-7 标准规定的电机安装方式
Mounting arrangements according to IEC 60034-7 standard

电机安装方式 Mounting arrangements	机座带底脚，端盖上无凸缘的电动机 Feet mounting without Flange					
	B3(IM1001)	V5(IM1011)	V6(IM1031)	B6(IM1051)	B7(IM1061)	B8(IM1071)
制造范围 Range	H63~H355	H63~H160	H63~H160	H63~H160	H63~H160	H63~H160
示意图 Diagram						
电机安装方式 Mounting arrangements	机座不带底脚，端盖上有大凸缘的电动机 Large flange mounting without feet			机座带底脚，端盖上有大凸缘的电动机 Large flange and mounting		
	B5(IM3001)	V1(IM3011)	V3(IM3031)	B35(IM2001)	V15(IM2011)	V36(IM2031)
制造范围 Range						
示意图 Diagram						
电机安装方式 Mounting arrangements	机座不带底脚，端盖上有小凸缘的电动机 Small flange mounting without feet			机座带底脚，端盖上有小凸缘的电动机 Small flange and feet mounting		
	B14(IM3601)	V18(IM3611)	V19(IM3631)	B34(IM2101)	V58(IM2111)	V69(IM2131)
制造范围 Range						
示意图 Diagram						

电机常见故障及排除方法 Frequent malfunctions and solutions

故 障	可能的原因	检查或校正方法
1、電動機空載時不能啟動	1、饋電路斷線（三相當中的一根） 2、定子三相繞組中的一相斷路（“Y”形連接時） 3、電源電壓或頻率不對	檢查電源電壓和個別連接處。 檢查保險絲，饋電線內電流和每一相繞組的電阻。 檢查電壓及頻率。
2、電動機在負載時不能啟動，在低負載或空載時能啟動，但在負載增加後轉速即大跌或甚至停下來	1、電源電壓低 2、定子繞組有匝間短路 3、定子三相繞組中異相斷線（“Δ”接線法時） 4、過載	檢查線路電壓。 檢查每相繞組和每相空載電流。 檢查每相繞組電阻。 檢查負載。
3、電機停留在低轉速	1、定子繞組一相接反，電動機發響聲 2、轉子端環和導杆中間有斷裂情況	檢查饋電線的電流和引出線標記。 檢查短路電流。
4、定子過熱	1、饋電線路三根中有一根斷線或定子繞組一相斷路 2、電源電壓過大或過低 3、過載 4、定子匝間或相同短路 5、通風不好	檢查保險絲，線間電壓和導線電流。 檢查饋電線內的電流，檢查定子相間和對地絕緣電阻。 檢查繞組電阻，檢查通風孔道。
5、軸承過熱	1、裝配不對 2、電動機軸與被拖動之軸不平行 3、沒有潤滑油，油內有雜物或油質不良 4、皮帶過緊 5、不平衡的磁性吸力大	檢查轉子是否容易轉動。 校正兩軸平衡。 用汽車洗刷更換潤滑油。 松皮帶或移動底腳。 檢查空氣隙偏心率。
6、合閘時保險設備跳閘	1、定子繞組一相接反 2、把應當接成“Y”形的定子三相繞組接成“Δ”形 3、繞組對機座短路或相間短路	檢查引出線標記和接法。 檢查引出線標記和接法。 檢查各相繞組對機座的絕緣以及相同絕緣。
7、機械振動大	1、轉子不平衡只在相當低的轉數時才不振動 2、軸向竄動大 3、傳動皮帶接頭接得不好 4、皮帶輪不平穩	檢查平衡情況。 檢查軸承外的間隙，並加以調整。 重新接皮帶。 檢查皮帶輪。

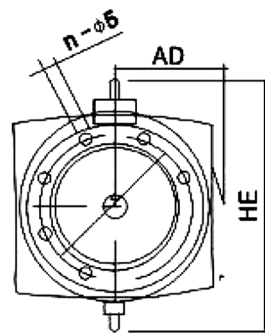
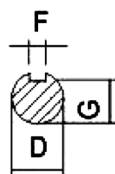
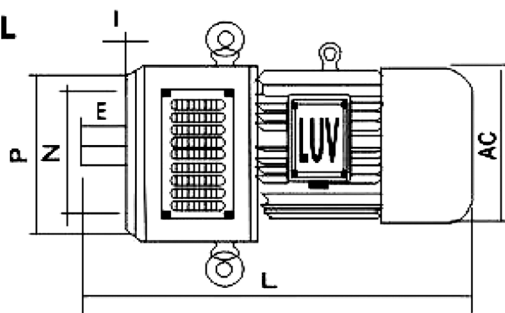
注：電動機的故障及產生的故障的原因很多，有時一個故障可能有幾個原因，一個原因也可以產生幾種故障，上表所列僅為常見的幾種，在檢查如發生疑問可參閱有關檢修維護書或與製造廠聯系。

Stoppage	Possible reasons	Check or calibration methods
1. No-load motor can't start	1. Circuit broken wires (one of the three is the root) 2. When the child three-phase winding of the a phase breakers ("Y" type of connection) 3. The power supply voltage and frequency is wrong	Check the power supply voltage or individual connection. Check the fuse, feeders of current and each phase of the winding resistance. Check voltage and frequency
2. Motor load in cannot begin at low load or no-load to start when, but in load increase speed that are even stop to plunge	1. The low voltage power supply 2. The group turns around the son between short circuit 3. The stator three-phase winding out-of-phase break line ("Δ" then method) 4. Overload	Check the line voltage; Check each phase windings and each phase no-load current; Check each phase winding resistance; Check the load
3. Motor stay in low rotation speed	1. A connect the stator winding, motor hair crosstalk 2. The rotor ring and guide bar among fracture	Check feeders current and lead wire mark; Check short-circuit current
4. Stator overheating	1. Feeders three roots there was a break or stator winding a phase open circuit 2. The power supply voltage too big or too low 3. overload 4. Same stator circle or short circuit 5. And ventilated bad	Check the fuse, line voltage and current between wire; Check the current in a feeders, Check the stator alternate with and ground insulation resistance; Check the winding resistance and stable wa
5. Bearing overheating	1. The assembly wrong 2. The motor shaft and the dragging is not parallel axis 3. No lubricating oil, oil impurities or oily bad there 4. Belts tight 5. Don't balance of magnetic big suction	Check whether the rotor to turn; Correction two axis balance; Use the car wash oil changing; The belt or loose move feet; Check the air gap eccentric degrees
6. When feeder insurance facilities trip	1. A connect the stator winding 2. Put a "Y" shall meet type stator windings to become "Δ" Δ 3. Winding base to short circuit or alternate with short circuit	Check mark and lead wire by law; Check mark and lead wire by law; Check the phase windings of the insulation and the same base of insulation
7. Mechanical vibration	1. Relet not only in balance quite a low speed don't vibration 2. the axial moving there 3. transmission belt joint answered the bad 4. pulley is not even	Check the balance situation; Check the clearance of bearing, and to make adjustments. To meet the belt; Check the pulley

Note: There are many reasons for the malfunctions, sometimes there might be several reasons for one problem, sometimes one reason might come several problems. These listed in the table are just those frequent appeared, please don't hesitate to contact us while in need.

型 号 Type	安 装 尺 寸 Installation dimensions									外形尺寸 External dimensions				
	A	WB	WC	E	H	D	F	G	K	AB	AC	AD	HD	L
YCT112-4A	190	210	40	40	112	19	6	15.5	12	240	260	150	280	520
YCT112-4B				50	132	24	8	20		285	310	165	330	570
YCT132-4A	216	241	45	60	28	24		15	330	350	185	385	665	
YCT132-4B									279	305	180	365	385	195
YCT160-4A	254	267	50	80	200	38	10	33	19	410	430	235	485	820
YCT160-4B										318	356	860		
YCT180-4A	318	356	56	110	225	42	12	37	24	465	485	270	545	980
YCT200-4A										406	457	63	520	540
YCT200-4B	406	457	70		250	48	14	42.5	575	595	320	665	1280	
YCT225-4A														457
YCT225-4B	457	508	89	315	60	18	53	28	58	755	780	420	890	1425
YCT250-4A														508
YCT250-4B	508	560	108	355	75	20	67.5	28	75	780	420	890	1630	
YCT280-4A														560
YCT315-4A	610	630	108	355	75	20	67.5	28	75	780	420	890	1630	
YCT315-4B														630
YCT355-4A	610	630	108	355	75	20	67.5	28	75	780	420	890	1630	
YCT355-4B														630
YCT355-4C	630	630	108	355	75	20	67.5	28	75	780	420	890	1680	

YCTL



型号 Type	安 装 尺 寸 Installation dimensions										外形尺寸 External dimensions			
	D	E	F	G	M	N	P	n	S	T	AC/2	AD	HD	L
YCT112-4A	19	40	6	15.5	215	180	250	4	15	4	125	150	333	515
YCT112-4B				20							142	155	391	580
YCT132-4A	24	50	8	24	265	230	300	6	19	5	165	185	445	620
YCT132-4B				24							180	190	485	665
YCT160-4A	28	60	10	33	300	250	350	8	19	5	205	210	530	670
YCT160-4B				40							225	255	582	740
YCT180-4A	38	80	12	37	350	300	400	8	19	5	225	255	582	740
YCT180-4B				40							250	285	642	840
YCT200-4A	42	110	14	42.5	400	350	450	8	19	5	250	285	642	840
YCT200-4B				49							286	320	740	970
YCT225-4A	48	110	16	49	450	400	500	8	19	5	250	285	642	840
YCT225-4B				49							286	320	740	1015
YCT250-4A	55	110	16	49	450	400	500	8	19	5	250	285	642	840
YCT250-4B				49							286	320	740	1130
YCT280-4A	55	110	16	49	450	400	500	8	19	5	250	285	642	840
YCT280-4B				49							286	320	740	1170
YCT315-4A	55	110	16	49	450	400	500	8	19	5	250	285	642	840
YCT315-4B				49							286	320	740	1270