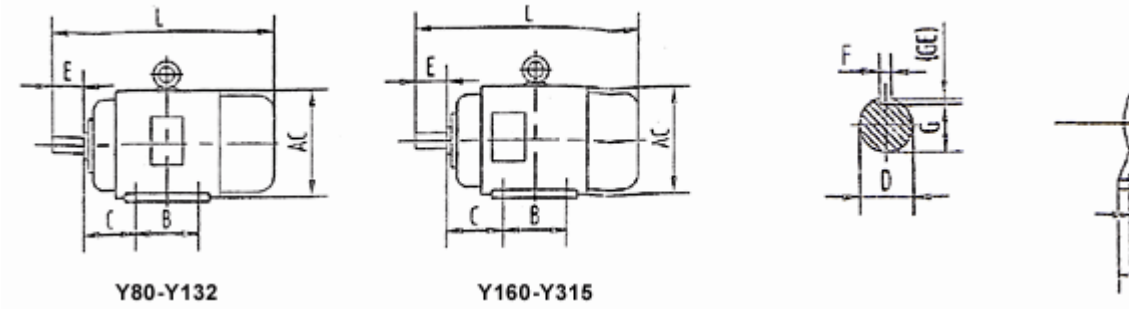
Y series three-phase induction motor

Frame with foot end shield without flange



Y80-Y132 Y160-Y315

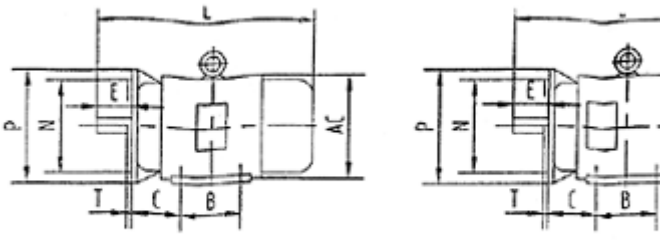
Frame No.	Poles	Mounting dimension and tolerance															
		A	A/2		B	C		D		E		F		G1)		H	
		Basic size	Basic size	Limit deviation	Basic size	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Lim deviat
80M	2、4	125	62.5		100	50		19		40		6		15.5	0 -0.10	80	
90S		140	70		100	56	±1.5	24	+0.009 -0.004	50	±0.310	8	0 -0.030	20		90	
90L	2、4、6				125												
100L		160	80	±0.50	140	63		28		60				24		100	
112M		190	95		140	70	±2.0				±0.370		0 -0.036			112	
132S		216	108		140	89		38		80		10		33		132	0 -0.5
132M					178												
160M	2、4、6、8	254	127		210	108	±3.0	42	+0.018 +0.002	110	±0.430	12		37		160	
160L					254												
180M		279	139.5		241	121		48				14		42.5		180	
180L					279												

200L		318	159	±0.75	305	133	±4.0	55	+0.030 +0.011			16	0 -0.043	49	0 -0.20	200	
225S	4、8	356	178		286	149		60		140	±0.500	18		53		225	
225M	2				311			55		110	±0.430	16		49			
	4、6、8							60		140	±0.500	18		53			
250M	2	406	203	±1.00	349	168		60				18		53		250	
	4、6、8							65						58			
280S	2	457	228.5		368	190		65				18	0 -0.043	58		280	0 -0.1
	4、6、8							75				20	0 -0.052	67.5			
280M	2				419			65				18	0 -0.043	58			
	4、6、8							75				20	0 -0.052	67.5			
315S	2	508	254		406	216		65				18	0 -0.043	58		315	
	4、6、8、10							80		170		22	0 -0.052	71			
315M	2				457			65		140		18	0 -0.043	58			
	4、6、8、10							80		170		22	0 -0.052	71			
315L	2				508			65		140		18	0 -0.043	58			
	4、6、8、10							80		170		22	0 -0.052	71			

1) G＝D-GE and the maximum tolerance of GE is ($^{+0.10}_{0}$) for frame NO.80 and is ($^{+0.20}_{0}$) for other ones.

2) Location tolerance of K hole is based on axial line.

Frame with fo



Y80-Y132

Frame NO.	Flange No.	Poles	Mounting															
			A	A/2		B	C		D		E		F		G1)			
			Basic size	Basic size	Limit deviation	Basic size	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basi size
80M	FF165	2、4	125	62.5	±0.50	100	50	±1.5	19	+0.009 -0.004	40	±0.310	6	0 -0.030	15.5	0 -0.10	80
90S		2、4、6	140	70		100	56		24		50		8		20		90
90L						125											
100L	FF215		160	80		140	63	±2.0	28		60	±0.370		0 -0.036	24		100
112M			190	95		140	70										112
132S	FF265		216	108		140	89		38	+0.018 +0.002	80		10		33		132
132M						178											
160M	FF300	2、4、6、8	254	127		210	108	±3.0	42		110	±0.430	12	0 -0.043	37		160
160L						254											
180M			279	139.5		241	121		48				14		42.5		180
180L						279											
200L	FF350		318	159	±0.75	305	133		55				16		49		200
225S	FF400	4、8	356	178		286	149	±4.0	60	+0.030 +0.011	140	±0.500	18		53	0 -0.20	225
225M		2				311			55		110	±0.430	16		49		
		4、6、8							60		140	±0.500	18		53		
250M	FF500	2	406	203	±1.00	349	168										250
		4、6、8							65						58		
280S		2	457	228.5		368	190										280
		4、6、8							75				20	0 -0.052	67.5		
280M		2				419			65				18	0 -0.043	58		
		4、6、8							75				20	0 -0.052	67.5		
315S	FF600	2	508	254		406	216		65		140		18	0 -0.043	58		315
		4、6、8、10							80		170		22	0 -0.052	71		
315M		2				457			65		140		18	0 -0.043	58		
		4、6、8、10							80		170		22	0 -0.052	71		
315L		2				508			65		140		18	0 -0.043	58		
		4、6、												0			

		8、10							80		170		22	-0.052	71	

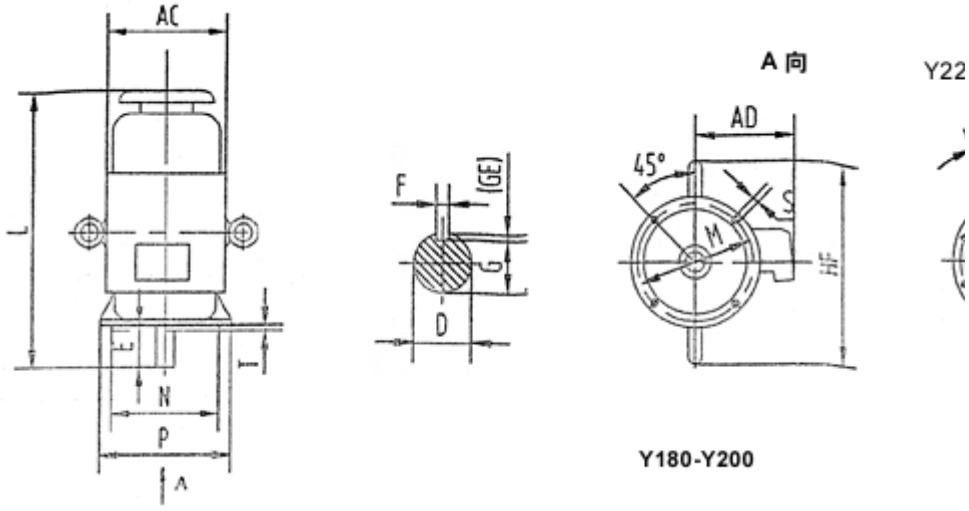
1)G＝D-GE and the maximum tolerance of GE is ($^{+0.10}_{0}$) ,for frame NO.80 and is (

2) Location tolerance of K,S holes is based on axial line.

3) P size is the maximum limit value.

4) R is the distance from flange nating surface to axial extending shoulder.

Stand fixing measurement,frame without foot end shield



Frame NO.	Flange No.	Poles	Mounting dimension and tolerance															
			D		E		F		G1)		M	N		P3)	R4)			
			Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation		Basic size	Limit deviation		Basic size	Limit deviation	Basic size	d
180M	FF300	2、4、6、8	48	+0.018 +0.002	110	±0.430	14	0 -0.043	42.5	0 -0.20	300	250	+0.016 -0.013	350	0	±3.0	19	
180L	FF350																	
200L			55	+0.030 +0.011			16		49		350	300	±0.016	400				
225S	FF400	4、8	60		140	±0.500	18		53		400	350	±0.018	450		±4.0		
225M		2	55		110	±0.430	16		49									
		4、6、8	60		140		18		53									
250M	FF500	2									500	450	±0.020	550				
		4、6、8	65						58									
280S		2																
		4、6、8	75				20	0 -0.052	67.5									
280M		2	65				18	0 -0.043	58									
		4、6、8	75				20	0 -0.052	67.5									
		2	65				18	0 -0.043	58									

315S	FF600	4、6、8、10	80		170	±0.500	22	0 -0.052	71		600	550	±0.022	660		24
315M		2	65		140		18	0 -0.043	58							
		4、6、8、10	80		170		22	0 -0.052	71							
315L		2	65		140		18	0 -0.043	58							
		4、6、8、10	80		170		22	0 -0.052	71							

1) G＝D-GE and the maximum tolerance of GE is ($^{+0.10}_{0}$), for frame NO.80 and is($^{+0.20}_{0}$) for other ones.

2) P size is the maximum limit value.

3) R is the distance from flange nating surface to axial extending shoulder.

4) Location tolerance of S hole is based on axial line.

Type	Power (KW)	Rated current IN (A)	Rated speed nN (rpm)	Efficiency η(%)	Power factor (cos)	Starting Torque / Rated Torque Tst/Tn	Starting Current / Rated Current Lst/In	Max Torque / Rated Torque Tmax/Tn
Synchronous Speed 3000r/min								
Y80M1-2	0.75	1.8	2830	75	0.84	2.2	6.5	2.3
Y80M2-2	1.1	2.5		77	0.86		7	
Y90S-2	1.5	3.4	2840	78	0.85			
Y90L-2	2.2	4.7		80.5	0.86			
Y100L-2	3	6.4	2870	82	0.87			
Y112M-2	4	8.2	2890	85.5				
Y132S1-2	5.5	11	2900		0.88	2		
Y132S2-2	7.5	15		86.2				
Y160M1-2	11	22	2930	87.2				
Y160M2-2	15	29		88.2				
Y160L-2	18.5	36		89	0.89			2.2
Y180M2	22	43	2940					
Y200L1-2	30	57	2950	90				
Y200L2-2	37	70		90.5				
Y225M-2	45	84	2970	91.5				
Y250M-2	55	103						

Y280S-2	75	140		92				
Y280M-2	90	167		92.5				
Y315S-2	110	200	2980			1.8	6.8	
Y315M-2	132	237		93				
Y315L1-2	160	286		93.5				
Y315L2-2	200	356						

Type	Power (KW)	Rated current IN (A)	Rated speed nN (rpm)	Efficiency η (%)	Power factor (cos)	Locked-rotor torque	Locked-rotor current	Pull-out torque	Pull-out torque
						Rated current Tst/TN	Rated current Lst/TN	Rated torque Tmin/TN	Rated torque Tmax/Tn
Synchronous Speed 1500r/min									
Y80M1-4	0.55	1.5	1390	73	0.76	2.4	6	1.7	2.3
Y80M2-4	0.75	2		74.5		2.3		1.6	
Y90S-4	1.1	2.8	1400	78	0.78		6.5		
Y90L-4	1.5	3.7		79	0.79				
Y100L1-4	2.2	5	1430	81	0.82	2.2	7	1.5	
Y100L2-4	3	6.8		82.5	0.81				
Y112M-4	4	8.8	1400	84.5	0.82			1.4	
Y132S-4	5.5	12		85.5	0.84				
Y132M-4	7.5	15		87	0.85				
Y160M-4	11	23	1460	88	0.84				
Y160L-4	15	30		88.5	0.85				
Y180M-4	18.5	36	1470	91	0.86	2		1.2	2.2
Y180L-4	22	43		91.5					
Y200L-4	30	57		92.2	0.87				
Y225S-4	37	70	1480	91.8		1.9		1.1	
Y225M-4	45	84		92.3	0.88				
Y250M-4	55	103		92.6		2			
Y280S-4	75	140		92.7		1.9		1	
Y280M-4	90	164		93.5	0.89				
Y315S-4	110	201		93.5		1.8	6.8		
Y315M-4	132	241	1490	94					
Y315L1-4	160	291		94.5					
Y315L2-4	200	354						0.9	

						Locked-rotor	Locked-rotor	Pull-out	Pull-out

Type	Power (KW)	Rated current IN (A)	Rated speed nN (rpm)	Efficiency η (%)	Power factor (cos)	torque	current	torque	torque
						Rated current Tst/TN	Rated current Lst/TN	Rated torque Tmin/TN	Rated torque Tmax/Tn
Synchronous Speed 1000r/min									
Y80M-6	0.55	1.8	910	71.5	0.7	2	5.5	1.5	2.2
Y90S-6	0.75	2.3		72.5	0.7				
Y90	1.1	3.2		73.5	0.72			1.3	
Y100L-6	1.5	4	940	77.5	0.74		6		
Y112M-6	2.2	5.6		80.5					
Y132S-6	3	7.2	960	83	0.76		6.5		
Y132M1-6	4	9.4		84	0.77				
Y132M2-6	5.5	13		85.3	0.78				
Y160M-6	7.5	17	970	86					2
Y160L-6	11	25		87				1.2	
Y180L-6	15	31		89.5	0.81	1.8			
Y200L1-6	18.5	38		89.8	0.83				
Y200L2-6	22	45		90.2					
Y225M-6	30	60	980		0.85	1.7			
Y250M-6	37	72		90.8	0.86	1.8			
Y280S-6	45	85		92	0.87			1.1	
Y280M-6	55	104							
Y315S-6	75	141	990	92.8		1.6		1	
Y315M-6	90	168		93.2					
Y315L1-6	110	204		93.5					
Y315L2-6	132	245		93.8					

Type	Power (KW)	Rated current IN (A)	Rated speed nN (rpm)	Efficiency η (%)	Power factor (cos)	Locked-rotor torque	Locked-rotor current	Pull-out torque	Pull-out torque
						Rated current Tst/TN	Rated current Lst/TN	Rated torque Tmin/TN	Rated torque Tmax/Tn
Synchronous Speed 750r/min									
Y132S-8	2.2	5.6	710	80.5	0.71	2	5.5	1.2	
Y132M-8	3	7.3		82	0.72				
Y160M1-8	4	9.5	715	84	0.73		6		
Y160M2-8	5.5	12.7		85	0.74				
Y160L-8	7.5	17		86	0.75		5.5		
Y180L-8	11	24.4	730	87.5	0.77	1.7			

Y200L-8	15	32.9		88	0.76	1.8	6	1.1	2
Y225S-8	18.5	39.7	735	89		1.7			
Y225M-8	22	46.4		90	0.78	1.8			
Y250M-8	30	61.6		90.5	0.8				
Y280S-8	37	76.1	740	91	0.79				
Y280M-8	45	90.8		91.7	0.8			1	
Y315S-8	55	111		92		1.6	6.5		
Y315M-8	75	150		92.5	0.81			0.9	
Y315L1-8	90	179		93	0.82				
Y315L2-8	110	219		93.3			6.3		

Type	Power (KW)	Rated current IN (A)	Rated speed nN (rpm)	Efficiency η (%)	Power factor (cos)	Locked-rotor torque	Locked-rotor current	Pul
						Rated current Tst/TN	Rated current Lst/TN	Ra
Synchronous Speed 600r/min								
Y315S-10	45	100	590	91.5	0.75	1.5	6.2	
Y315M-10	55	121		92	0.75			
Y315L1-10	75	162		92.5	0.76			