



Y2 series three-phase induction motor

B3 Frame with foot end shield without flange

Frame No.	Poles	Mounting dimension and tolerance															
		A	A/2	B	C		D		E		F		G1)		H		
		Basic size	Basic size	Basic size	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	
63M	2、4	100	50	80	40		11	+0.006	23	±0.260	4		8.5		63		7
71M	2、4、6	112	56	90	45		14	-0.003	30		5	0 -0.030	11	0 -0.10	71		
80M	2、4、6、8	125	62.5	100	50	±1.5	19		40	±0.310	6		15.5		80		10
90S		140	70	100	56	24	+0.009	50	8		20	90					
90L				125													
100L		160	80	140	63	28	60	±0.370	8	0 +0.036	24	100					
112M	190	95	140	70	±2.0									±0.370	10	33	112
132S	216	108	140	89	38	80	10	33	132								
132M			178														
160M	254	127	210	108	42	+0.018	12	37	160	0 -0.5							

160L				254				+0.002										
180M				241														15
180L		279	139.5	279	121	± 3.0	48		110	± 0.430	14		42.5			180		
200L		318	159	305	133		55				16		49			200		
225S	4、8			286			60		140	± 0.500	18	0 -0.043	53					19
225M	2 4、 6、8	356	178	311	149		55		110	± 0.430	16		49			225		
250M	2 4、 6、8	406	203	349	168		60						53					
280S	2 4、 6、8			368			65		140		18	0 -0.20	58			250		
280M	2 4、 6、8	457	228.5	419	190		75				20	0 -0.052	67.5			280	24	
315S	2 4、 6、 8、 10			406		± 4.0	65	+0.030 +0.011			18	0 -0.043	58					
315M	2 4、 6、 8、 10	508	254	457	216		80		± 0.500		22	0 -0.052	71					
315L	2 4、 6、 8、 10			508			65				18	0 -0.043	58				0 -1.0	
	2						80				22	0 -0.052	71			315	28	
	2						65				18	0 -0.043	58					
							80				22		57					
							75				20		67.5					

355M	4、 6、 8、 10	610	305	560	254	95	+0.035	170	25	0	86	355
							+0.013			-0.052		
355L	2	610	305	530	254	75	+0.030	140	20	67.5	355	
							+0.011					
	4、 6、 8、 10					95	+0.035	170	25	86		
							+0.013					

1.G=D-GE and the maximum tolerance of GE is($\begin{matrix} +0.10 \\ 0 \end{matrix}$)for frame NO.80 and is($\begin{matrix} +0.20 \\ 0 \end{matrix}$)for other ones 2.Location tolerance of K I

B5 Frame without foot end shield with flange

Frame No.	Flange No.	Poles	B5 Frame without foot end shield with flange																		
			D		E		F		G1)		M	N		P2)	R3)		Basic size	d			
			Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation		Basic size	Limit deviation		Basic size	Limit deviation					
63M	FF115	2、 4	11	+0.006	23	± 0.260	4	8.5	115	90	+0.013	140	10								
71M	FF130													2、 4、 6	14	-0.003	30	5	0	11	0
80M	FF165	2、 4、 6、 8	19	40	± 0.310	6	15.5	165	130	200	12										
90S												24	+0.009	50	8	20	215	180	250	0	15
90L																					
100L												FF215	28	60	± 0.370	10	33	265	230	300	15
112M	FF265	38	80	10	33	265	230	300	15												
132S										FF300	42	+0.018	110	± 0.430	12	37	300	250	350	15	
132M	+0.002	42	+0.014	12	37	300	250	350	15												
160M										FF300	48	42.5	14	42.5	300	250	350	15			
160L	+0.014	42	37	300	250	350	15														
180M								-0.013	42										37	300	250
180L	+0.014	42	37	300	250	350	15														

										0									
200L	FF350		55					16		49	-0.20	350	300	±0.016	400				
225S		4、8	60		140	±0.500	18	0	53										
225M	FF400	2	55		110	±0.430	16		49			400	350	±0.018	450				
		4、6、8	60						53										
250M		2		+0.030			18												
		4、6、8		+0.011															
280S	FF500	2			140	±0.500													
		4、6、8	65						58			500	450	±0.020	550				
280M		2	65				18	0	58										
		4、6、8	75					20	0	67.5									

1) G+D-GE, and the maximum tolerance of GE is (+0.10) for frame NO.80 and is (+0.20) for other ones.

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 mating surface to axial extending shoulder.

B5 Frame without foot end shield with flange

Frame No.	Flange No.	Poles	B5 Frame without foot end shield with flange														Whorl hole	S
			D		E		F		G1)		M	N		P2)	R3)			
			Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation		Basic size	Limit deviation		Basic size	Limit deviation		
63M	FT75	2、4	11	+0.006	23	±0.260	4		8.5		25	60	+0.012	90				M5
71M	FT85	2、4、6	14	-0.003	30		5	0	11	0	85	70	-0.007	105				M6
80M	FT100		19		40		6		15.5		100	80		120	0			
90S	FT115	2、4、	24		50	±0.310												
90L				+0.009				20		115	95	+0.013	140					
				-0.004				0	0				-0.009					

		6、8、10	80		170			20	-0.052	71									
315M	FF600	2	65		140			18	0	58			600	550	±0.022	660			
									-0.043										
315L	FF600	4、6、8、10	80		170			22	0	71									
									-0.052										
315L	FF600	2	65		140			18	0	58									
									-0.043										
355M	FF740	4、6、8、10	95	+0.035	170			25	0	86			740	680	±0.025	800			
				+0.013					-0.052										
355L	FF740	2	75	+0.030	140			20		67.5									
				+0.011															
355L	FF740	4、6、8、10	95	+0.035	170			25		86									
				+0.013															

±0.500

±4.0

24

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

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.

B35 Frame with foot end shield with fl

Frame No.	Flange No.	Poles	Mornting Jir															
			A	A/2	B	C		D		E		F		G1)		H		
			Basic size	Basic size	Basic size	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	Basic size	Limit deviation	
63M	FF115	2、4	100	50	80	40	±1.5	11	+0.006	23	±0.260	4		8.5		63		
71M	FF130	2、4、6	112	56	90	45		14	-0.003	30		5	0	11	0	71		
80M			125	63	100	50		19		40		6		16		80		

90S	FF165	2/4/6/8	140	70	100	56	± 2.0	24		50	± 0.310	8		20	90					
90L					125				+0.009				-0.004							
100L	FF215		160	80	140	63		28	60	± 0.370	10	33	100	0						
112M			190	95	140	70								+0.036	112					
132S	FF265		216	108	140	89		38	80	10	33	132	178							
132M					178															
160M	FF300		254	127	210	108		42	110	± 0.430	12	37	160	0						
160L					254									+0.018	-0.002					
180M					279									139.5	241	121	48	14	43	180
180L															279					
200L	FF350	318	159	305	133	55	16	49	200											
225S	FF400	4、8	356	178	286	149	60	140	± 0.500	18	53	0								
225M		2			311							-0.043	225							
250M	FF500	4、6、8	406	203	349	168	60	140	± 0.500	18	58	0								
		2										-0.20	250							
280S	FF500	2	457	228.5	368	190	65	140	± 0.500	20	68	0								
280M		4、6、8			-0.052							280								
		2			65								+0.030	-0.043						
		4、6、8			75							-0.052								
315S	FF500	2	406	190	65	170	18	58	0											
		4/6/8/10							80	-0.052	71									
	2	65	140	18	58	0														

315M			508	254	457	216	80	170	22	-0.043	71	315	-1.0
		4/6/8/10								0			
315L	FF600	2	508	254	508	216	65	140	18	0	58	315	
		4/6/8/10								-0.043			
355M		2	610	305	560	254	75	140	20		68	355	
		4/6/8/10								0			
355L	FF740	2	610	305	530	254	75	140	20		68	355	
		4/6/8/10								-0.052			
			610	305	560	254	95	170	25	0	86	355	
										+0.035			
			610	305	530	254	95	170	25		86	355	
										+0.013			

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

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.

B35 Frame with foot end shield with flange

Frame No.	Flange No.	Poles	Mounting dimensions															
			A	A/2	B	C		D		E		F		G1)		H		
			Basic size	Basic size	Basic size	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
63M	FT75	2、4	110	50	80	40	±1.5	11	+0.006	23	±0.260	4		8.5		63		
71M	FT85	2、4、6	112	56	90	45		14	-0.003	30		5	0	11	0	71		
80M	FT100		125	62.5	100	50		19		40		6		15.5		80		
90S	FT115	2/4/6/8	140	70	100	56	±2.0	24		50	±0.310	8		20		90	0	
90L					125				+0.009						0		-0.5	
100L	FT130		160	80	140	63		28		60			±0.370		24	0	-0.20	100
112M					190	70				112								

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

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

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

Y3-315S-2	110	150	195.4	2975	94	0.91	353	1.8	2.2
Y3-315M-2	132	175	233	2975	94.5	0.92	424	1.8	2.2
Y3-315L1-2	160	220	279	2975	94.6	0.92	514	1.8	2.2
Y3-315L2-2	200	270	348	2980	94.8	0.92	641	1.8	2.2
Y3-355M-2	250	340	434	2985	95.2	0.92	800	1.8	2.2
Y3-355L-2	315	430	545	2985	95.4	0.92	1008	1.8	2.2
380V 50Hz 4P									
Y3-63M1-2	0.12	0.18	0.44	1130	57	0.72	0.863	2.1	2.2
Y3-63M2-2	0.18	0.25	0.62	1130	60	0.73	0.293	2.1	2.2
Y3-71M1-2	0.25	0.37	0.79	1345	65	0.74	1.776	2.1	2.2
Y3-71M2-2	0.37	0.5	1.12	1340	67	0.75	2.64	2.1	2.2
Y3-80M1-4	0.55	0.75	1.57	1390	71	0.75	3.78	2.4	2.3
Y3-80M2-4	0.75	1	2.05	1380	73	0.76	5.19	2.3	2.3
Y3-90S-4	1.1	1.5	2.85	1390	76.2	0.77	7.56	2.3	2.3
Y3-90L-4	1.5	2	3.72	1400	78.5	0.78	10.24	2.3	2.3
Y3-100L1-4	2.2	3	5.09	1420	81	0.81	20.2	2.3	2.3
Y3-100L2-4	3	4	6.73	1420	82.6	0.82	26.7	2.3	2.3
Y3-112M-4	4	5	8.8	1430	84.2	0.82	36.4	2.3	2.3
Y3-132S-4	5.5	7.5	11.7	1445	85.7	0.83	49.4	2.3	2.3
Y3-132M-4	7.5	10	15.6	1450	87	0.84	72.2	2.3	2.3
Y3-160M-4	11	15	25.5	1455	88.4	0.84	98.5	2.2	2.3
Y3-160L-4	15	20	30	1455	90	0.86	120.7	2.2	2.3
Y3-180M-4	18.5	25	30	1455	89.4	0.85	120.7	2.2	2.3
Y3-180M-2	22	30	36.3	1465	90.5	0.86	143.5	2.2	2.3
Y3-200L-4	30	40	58	1465	91.4	0.86	195	2.2	2.3
Y3-225S-4	37	50	70.2	1470	92	0.87	240	2.2	2.3
Y3-225M-4	45	60	85	1475	92.5	0.87	292	2.2	2.3

Y3-250M-4	55	75	103.38	1475	93	0.87	355	2.2	2.3
Y3-280S-4	75	100	139.9	1480	93.6	0.87	483	2.2	2.3
Y3-280M-4	90	120	167.4	1485	93.9	0.87	579	2.2	2.3
Y3-315S-4	110	150	201	1485	94.5	0.87	708	2.1	2.2
Y3-315M-4	132	175	240	1485	94.8	0.88	849	2.1	2.2
Y3-315L1-4	160	220	288	1485	94.9	0.88	1029	2.1	2.2
Y3-315L2-4	200	270	360	1490	94.9	0.89	1283	2.1	2.2
Y3-355M-4	250	340	443	1490	95.2	0.89	1603	2.1	2.2
Y3-355L-4	315	430	559	1490	95.2	0.9	2020	2.1	2.2
380V 50Hz 6P									
Y3-71M1-6	0.18	0.25	0.74	870	56	0.66	1.98	1.9	2
Y3-71M2-6	0.25	0.37	0.95	870	59	0.68	2.75	1.9	2
Y3-80M1-6	0.37	0.5	1.3	880	62	0.7	4.02	1.9	2
Y3-80M2-6	0.55	0.75	2.79	880	65	0.72	5.97	1.9	2.1
Y3-90S-6	0.75	1	2.29	905	69	0.72	7.92	2	2.1
Y3-90L-6	1.1	1.5	3.18	905	72	0.73	11.61	2	2.1
Y3-100L-6	1.5	2	4	930	76	0.75	15.41	2	2.1
Y3-112M-6	2.2	3	5.57	945	79	0.76	22.2	2	2.1
Y3-132S2-6	3	4	7.4	960	81	0.76	29.9	2.1	2.1
Y3-132M1-6	4	5.5	9.57	960	82	0.76	39.8	2.1	2.1
Y3-132M2-6	5.5	7.5	12.92	960	84	0.77	54.7	2.1	2.1
Y3-160M-6	7.5	10	17.21	970	86	0.77	73.9	2	2.1
Y3-160L-6	11	15	24.5	970	87.5	0.81	108.4	2	2.1
Y3-180L-6	15	20	31.6	975	89	0.81	147	2	2.1
Y3-200L1-6	18.5	25	38.6	980	90	0.83	180.4	2.1	2.1
Y3-200L2-6	22	30	44.7	980	90	0.84	215	2.1	2.1
Y3-225M-6	30	40	59.3	985	91.5	0.85	291	2	2.1
Y3-250M-6	45	60	85.9	985	92	0.86	359	2.1	2

Y3-280S-6	55	75	139.9	985	92.5	0.86	437	2.1	2
Y3-280M-6	75	100	104.79	985	92.8	0.86	534	2.1	2
Y3-315S-6	90	120	141.74	988	93.5	0.86	725	2	2
Y3-315M-6	110	150	169.5	988	93.8	0.86	570	2	2
Y3-315L1-6	132	175	207	988	94	0.86	1064	2	2
Y3-315L2-6	160	220	245	988	94.2	0.87	1277	2	2
Y3-355M1-6	160	220	292	990	94.5	0.88	1544	1.9	2
Y3-355M2-6	200	270	365	990	94.5	0.88	1930	1.9	2
Y3-355L-6	250	340	457	990	94.5	0.88	2413	1.9	2
380V 50Hz 8P									
Y3-80M1-8	0.18	0.25	0.88	645	51	0.61	2.67	1.8	1.9
Y3-80M2-8	0.25	0.37	1.15	645	54	0.61	3.7	1.8	1.9
Y3-90S-8	0.37	0.5	1.49	675	62	0.61	5.24	1.8	1.9
Y3-90L-8	0.55	0.75	2.17	675	63	0.61	7.79	1.8	2
Y3-100L-8	0.75	1	2.43	685	70	0.67	10.46	1.8	2
Y3-100L2-8	1.1	1.5	3.36	680	72	0.69	15.46	1.8	2
Y3-112M-8	1.5	2	4.46	680	74	0.69	20.8	1.8	2
Y3-132S-8	2.2	3	6.12	690	78	0.7	29.4	1.8	2
Y3-132M-8	3	4	8.01	715	79	0.72	40.1	1.8	2
Y3-132M1-8	4	5	10.3	715	81	0.73	53.1	1.9	2
Y3-160L-8	5.5	7.5	13.6	720	83	0.74	73	2	2
Y3-180L-8	7.5	10	17.8	720	85.5	0.75	99.5	2	2
Y3-200L1-8	11	15	25.5	720	87.5	0.75	144	2	2
Y3-200L2-8	15	20	34.1	730	88	0.76	195	2	2
Y3-225S-8	18.5	25	41.1	735	90	0.76	242	1.9	2
Y3-225M-8	22	30	47.4	730	90.5	0.78	288	1.9	2
Y3-250M-8	30	40	64.2	735	91	0.78	390	1.9	2
Y3-280S-8	37	50	77.8	738	91.5	0.79	497	1.9	2

Y3-280M-8	45	60	94.1	738	92	0.79	583	1.9	2
Y3-315S-8	75	100	111.2	740	92.8	0.81	710	1.8	2
Y3-315M-8	90	120	151.3	740	93	0.81	968	1.8	2
Y3-315L1-8	110	150	217	740	93.8	0.82	1162	1.8	2
Y3-315L2-8	132	175	217	740	94	0.82	1420	1.8	2
Y3-355M1-8	160	220	261	745	93.7	0.82	1693	1.8	2
Y3-355M2-8	200	270	315	745	94.2	0.82	2052	1.8	2
Y3-355L-8	250	340	387	745	94.5	0.83	2565	1.8	2