

IEC MOTORS ALUMINUM FRAME 63-132

NEW DESIGNS INTRODUCED

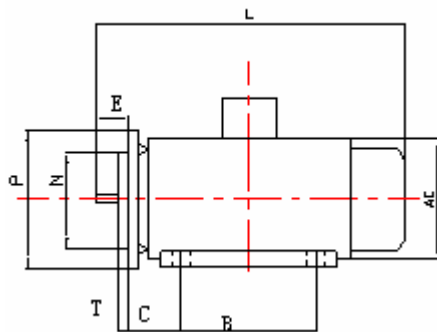
A completely new line of European style AC metric motors meeting IEC dimensional standards is now available. These high efficiency motors meet North American performance standards, including 1.15 service factors and EPACT energy efficiency mandates.

Typically used for replacement on machine tools, textile machinery and other equipment with metric dimensions but requiring the heavy-duty torque and performance of motors designed for use in North America.

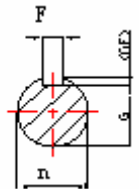
ALUMINUM FRAME

Aluminum frame models are AMS series. Construction details are shown below.

This type of motor is built to meet international standards and feature IP55 weatherproof enclosures, 60/50 Hz interchangeability, dual stamped nameplates, CE mark, and F2 conduit box location. Kits are available for field conversion from B3 to B3/B5 or B3/B14. Full information is available in this section.

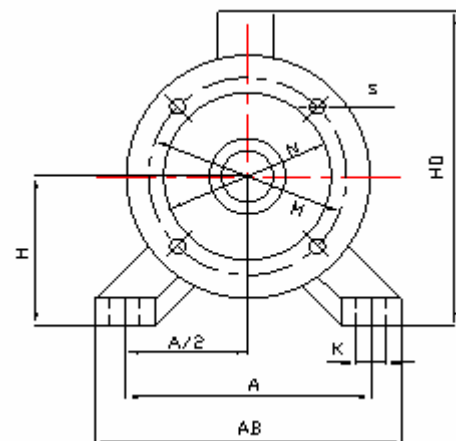


- **IP55 weatherproof enclosure** allows for use in a wide range of applications.
- **Class F insulation system** with class B temperature rise or lower.
- **Special design steel fan cover** and low-noise fan maximize airflow efficiency.
- **Aluminum nameplate** with information on motor efficiency and power factor. Stamped with 60 Hz and



50 Hz data.

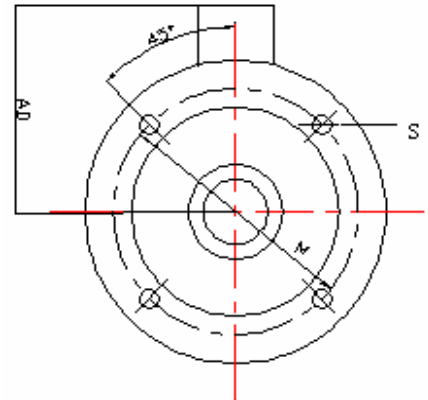
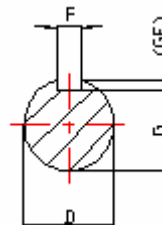
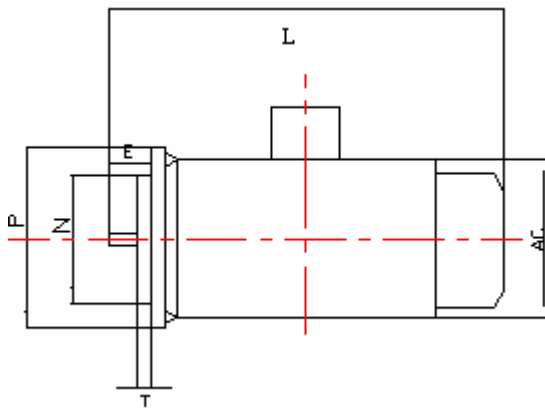
- **External grounding provision.**
- **Multi-mount repositionable feet** allow for three conduit box positions.
- **Roomy conduit box** is fully gasketed and has four-position conduit box entry (90 degree increments). NPT threaded entrance.
- **Oil seals** on both the drive end and non drive end.
- **Enclosed keyway**
- **Drain holes** located in multiple locations.
- **Drilled and tapped shaft.**
- **D flange (B5) and C face (B14)** models available. Field conversion kits also offered.
- **Imported bearings such as SKF, TNT**
- **High efficiency design** utilizes low-loss steel laminations for optimum power and performance.



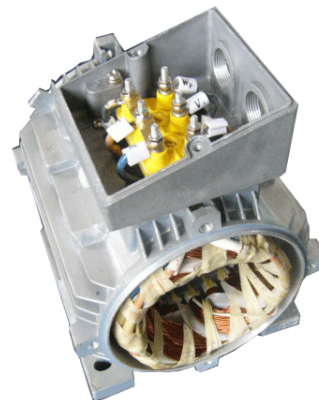
Performance data

B35 Mounting Dimensions and Tolerance																				Outline Dimensions											
Type	A				C	D		E		F		G		H		K			M	N		P	S			T		AB	AC	HD	L
	A/2	B	T	F		T	F	T	F	T	FS	T	FS	T	FS	T	PT	FS		T	FS		T	PT	FS	T	FS				
63M	100	50	80	40		11	+0.23		4		8.5		63					115	95		140					3	0-0.100	135	130	180	230
71M	112	56	90	45	±1.5	14	-0.030	±0.260	5	0	1	0	71	7	0	0.5	130	110	-0.009	160	10	0	0	0	0	0	150	145	195	255	
80M	125	62.5	100	50		19	+0.03	±0.310	6		15.5		80		0	0	165		+0.014	200	12			3.5		165	175	220	295		
90S	140	70	100	56		24	0.09	±0.310			20		90	10			180		-0.011	250	12			0-0.120		180	195	250	340		
90L			125			8		100		0		112		0				215								0		205	215	270	385
100L	160	80	140	63		28	0.04	±0.370			24		100				215	180		265	15			0-0.120		230	240	300	400		
112M	190	95	140	70	±2.0	38	0.18	±0.370	10		33		132	12	43	0	230		+0.016					0		4		270	275	345	510
132S	216	108	140	89		0.02					-0.036		-0.20				265		-0.013	300				0			270	275	345	510	
132M			178			0.02																									

- * "FS" is the meaning of "Frame Size".
- * "T" is the meaning of "Tolerance".
- * "PT" is the meaning of "Position Tolerance".



connection board



connection box

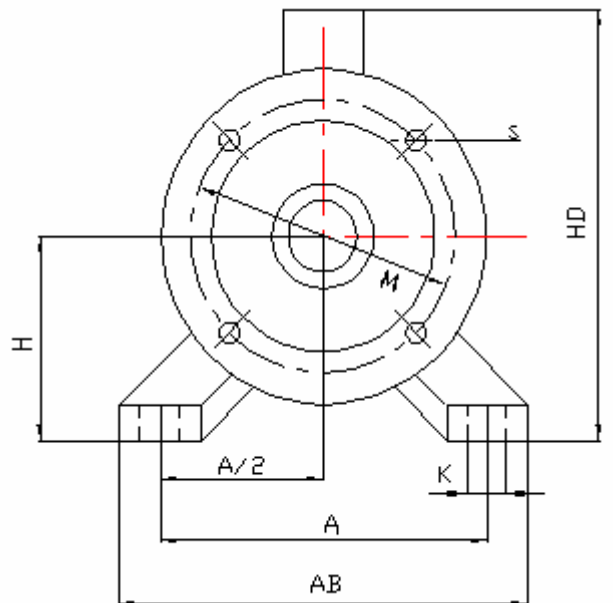
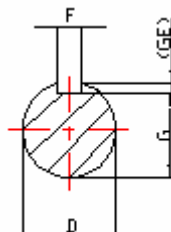
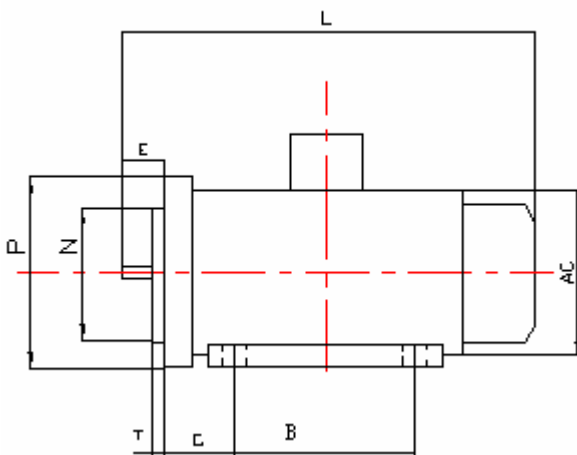


Performance data

B5 Mounting Dimensions and Tolerance

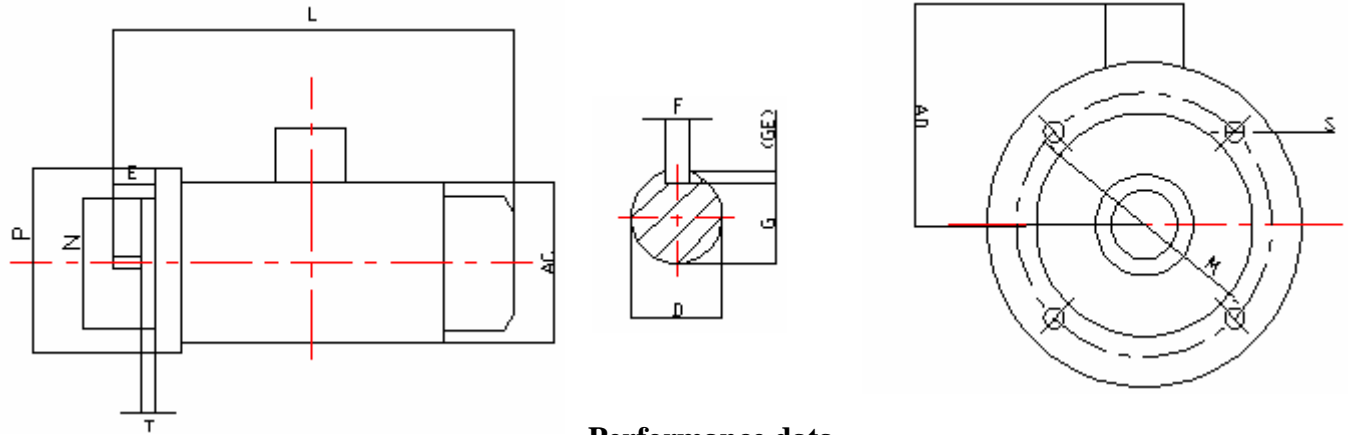
Outline
Dimensions

Type	D		E		F		G		M	N		P	S			T		AC	AD	L			
	Frame size	Tolerance	Frame size	Tolerance	Frame size	Tolerance	Frame size	Tolerance		Frame size	Tolerance		Frame size	Tolerance	Position tolerance	Frame size	Tolerance						
63M	11	+0.008	23	±0.260	4	0	8.5	0	115	95	+0.013	140	10	+0.360	0	0	3	0	-0.100	130	70	230	
71M	14	-0.003	30		5		-0.030		1	-0.10	130	110	-0.009							160			
80M	19	+0.009	40	±0.310	6	0	15.5	0		130	+0.014			+0.430	0	0	3.5	0	-0.120		175	145	295
90S	24		50		8		20		165	200		12	195							155	340		
90L	24		50		8		20		165	200		12	195							155	340		
100L	28	-0.004	60	±0.370	8	0	24	0	215	180	-0.011	250	15	+0.430	0	0	-0.120	4	-0.120	215	180	385	
112M			28				60		24	215		180								250	15	240	190
132S	38	+0.018	80	±0.370	10	0	33	-0.20	265	230	+0.016	300	15	+0.430	0	0	4	-0.120	-0.120	275	210	510	
132M		38					80		33	265	230	-0.013								300	15	275	210



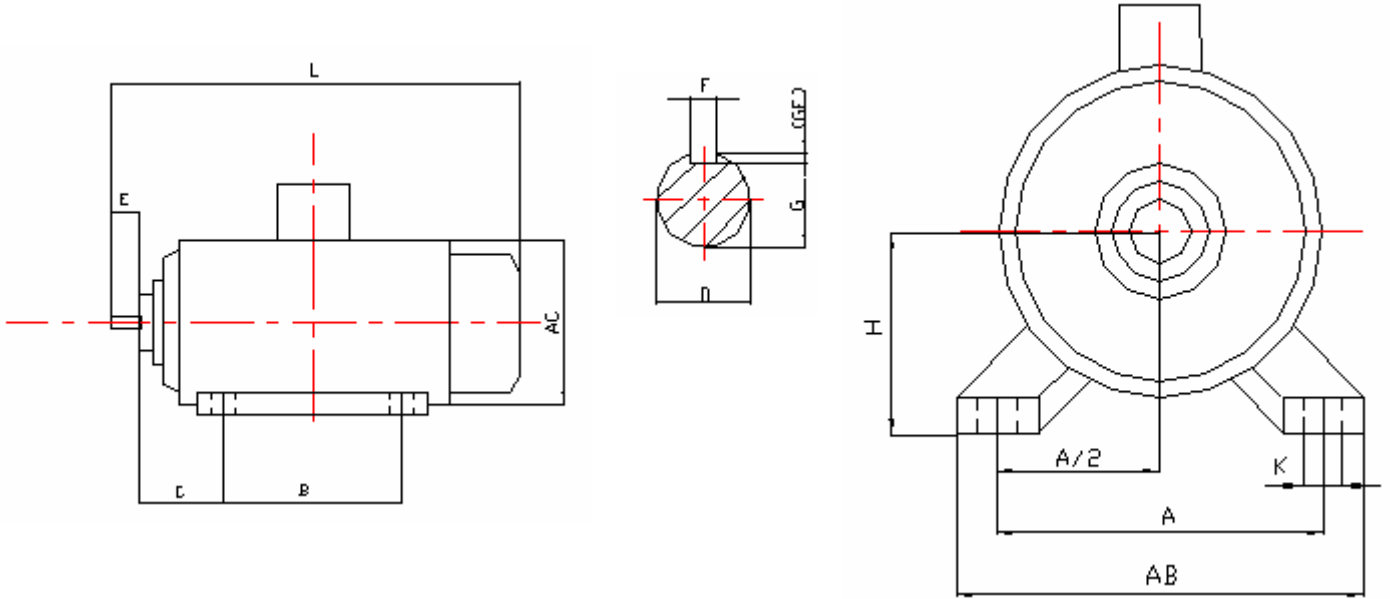
Performance data

B34 Mounting Dimensions and Tolerance																	Outline Dimensions												
Type	A	A/2	B	C		D		E		F		G		H		K		M	N		P	S		T		AB	AC	HD	L
	Frame Size				Tolerance	size	Tolerance	size	Tolerance	size	Tolerance	size	Tolerance	size	Tolerance	size	Position Tolerance		size	Tolerance		Hole	Position Tolerance	size	Tolerance				
63M	110	50	80	40		11	+0.0	23		4	0	8.5		63				75	60	+0.0	90	M5	0.4mm			135	130	180	230
71M	112	56	90	45	±1.5	14	-0.00	30	±0.2	5	-0.03	1	0	71	7	+0.3	0.5mm	85	70	-0.00	105	M6	0.5mm	2.5	0	150	145	195	255
							3		0	-0.10																			
80M	125	62.5	100	50		19		40		6	±0.3		15.5	80	0			100	80		120			-0.100	165	175	214	295	
90S	140	70	100	56	±1.5	24	+0.0	50		10		20		90	-0.5	10		115	95	+0.0	140			3		180	195	250	340
90L			125			09	0	0																					
100L	160	80	140	63			-0.00			8	-0.03			100						-0.00		M8	1.0mm			205	215	270	385
112M	190	95	140	70	±2.0	28		60	±0.3	6		24	-0.20	112				130	110		160			3.5	0	230	240	300	400
							4	70	0																				



Performance data

B14 Mounting Dimensions and Tolerance																	Outline Dimensions		
Type	D		E		F		G		M	N		P	S		T		AC	AD	L
	Frame size	Tolerance	Frame size	Tolerance	Frame size	Tolerance	Frame size	Tolerance		Frame size	Tolerance		Hole	Position Tolerance	Frame size	Tolerance			
63M	11	+0.008	23		4	0	8.5		75	60	+0.012	90	M5	0.4mm			130	70	230
71M	14	-0.003	30	±0.260	5	-0.030	1	-0.10	85	70	-0.007	105	M6	0.5mm	2.5	0	145	80	255
																	175	145	295
80M	19		40		6		15.5		100	80		120			-0.100		195	155	340
90S	24	+0.009	50	±0.310	8	0	20	0	115	95	+0.013	140	M8	1.0mm	3	0	215	180	385
90L																	195	155	340
100L	28	-0.004	60	±0.370	8	-0.036	24	-0.20	130	110	-0.009	160			3.5	0	240	190	400
112M																	240	190	400



Performance data

B3Mounting Dimensions and Tolerance																		Outline Dimensions			
Type	A	A/2	B	C		D		E		F		G		H		K			AB	AC	L
	Frame size			Frame size	Tolerance	Frame size	Tolerance	Frame size	Tolerance	Frame size	Tolerance	Frame size	Tolerance	Frame size	Tolerance	Frame size	Tolerance	Position Tolerance			
63M	100	50	80	40	±1.5	11	+0.008	23	±0.260	4	0	8.5	0	63	0	7	+0.360	ø0.5 [Ⓜ]	135	130	230
71M	112	56	90	45		14	-0.003	30		5		-0.030		1					-0.10	71	150
80M	125	62.5	100	50		19	+0.009	40	±0.310	6	8	15.5	0	80		10	0	180	195	340	
90S	140	70	100	56		24		-0.004		50		20		90		205	215	385			
90L			125	63	28	60		24		-0.20		112		230	240	400					
100L	160	80	140	63	±2.0	28	+0.018	80	±0.370	10	33	132	12	+0.430	0	ø1.0 [Ⓜ]	270	275	510		
112M	190	95	140	70		38		+0.002		80		10					33	132	270	275	510
132S	216	108	140	89		38		+0.018		80		10					33	132	270	275	510
132M			178			89		38		+0.002		80					10	33	132	270	275



Performance data

Tech data of AMS Series electric motors														
Model	Output		Current(A)			Speed	Eff.	Power Factor	Tstart/ Tn	Ist/In	Tmax/Tn	NM	M.Of Inertia	KG
	KW	HP	380V	400V	415V	(r/min)	(%)						KGM ²	
50HZ Synchronous Speed 3000 r/min (2 Poles)														
AMS561-2	0.09	0.12	0.29	0.28	0.27	2610	51	0.7	4	1.8	2.2	0.319	0.00013	4.6
AMS562-2	0.12	0.16	0.37	0.35	0.34	2610	55	0.7	4	1.8	2.2	0.425	0.00014	4.8
AMS631-2	0.18	0.25	0.53	0.5	0.48	2610	57	0.73	5.5	2.2	2.2	0.632	0.00018	5
AMS632-2	0.25	0.34	0.69	0.66	0.63	2610	59	0.75	5.5	2.2	2.2	0.878	0.00019	5.3
AMS711-2	0.37	0.5	0.99	0.94	0.91	2730	61	0.8	6.1	2.2	2.2	1.29	0.0003	6.5
AMS712-2	0.55	0.75	1.4	1.33	1.28	2740	63	0.82	6.1	2.2	2.3	1.918	0.00035	7
AMS801-2	0.75	1	1.81	1.72	1.65	2845	76.9	0.814	5.8	2.4	2.3	2.471	0.00075	9.5
AMS802-2	1.1	1.5	2.55	2.42	2.34	2840	77.9	0.82	6.2	2.5	2.3	3.624	0.0009	11
AMS90S-2	1.5	2	3.43	3.26	3.14	2840	79.78	0.853	6	2.7	2.3	5.047	0.0012	14.5
AMS90L-2	2.2	3	4.83	4.59	4.42	2840	81.89	0.869	6	2.5	2.3	7.402	0.0014	17
AMS100L-2	3	4	6.3	5.99	5.77	2870	83.43	0.886	7.5	2.2	2.3	9.988	0.0029	24.5
AMS112M-2	4	5.5	8.19	7.78	7.5	2880	85.55	0.9	7.1	2.3	2.3	13.3	0.0055	30
AMS132S1-2	5.5	7.5	11.1	10.5	10.1	2895	85.7	0.88	7.5	2.3	2.3	18.1	0.0109	42
AMS132S2-2	7.5	10	14.8	14.1	13.6	2880	87	0.88	7.5	2.2	2.3	24.7	0.0126	50
50HZ Synchronous Speed 1500 r/min (4 Poles)														
AMS561-4	0.06	0.08	0.25	0.23	0.22	1200	49	0.68	4	1.4	2	0.441	0.00013	4.6
AMS562-4	0.09	0.12	0.34	0.32	0.31	1200	49	0.65	4	1.8	2	0.662	0.00014	4.8
AMS631-4	0.12	0.16	0.42	0.4	0.39	1220	49	0.65	4	1.8	2	0.875	0.00027	4.8
AMS632-4	0.18	0.25	0.58	0.55	0.53	1220	49.8	0.68	4	1.8	2	1.313	0.00032	5
AMS711-4	0.25	0.34	0.73	0.7	0.67	1320	58.3	0.68	5.2	2.2	2.1	1.796	0.00045	6.3
AMS712-4	0.37	0.5	1.07	1.02	0.98	1305	61.4	0.72	5.8	2.2	2.1	2.658	0.00051	7
AMS801-4	0.55	0.75	1.49	1.41	1.36	1390	72.57	0.76	5.3	2.2	2.5	3.649	0.0018	9.5
AMS802-4	0.75	1	1.98	1.88	1.82	1380	74.13	0.74	5.3	2.3	2.5	4.977	0.0021	11
AMS90S-4	1.1	1.5	2.85	2.71	2.61	1390	75.6	0.79	4.7	2.3	2.5	7.508	0.0021	14.5
AMS90L-4	1.5	2	3.68	3.49	3.37	1390	78.69	0.79	5.2	2.3	2.5	10.2	0.0027	16
AMS100L1-4	2.2	3	5.06	4.81	4.64	1415	80.67	0.82	6.8	2.3	2.5	14.7	0.0054	23
AMS100L2-4	3	4	6.73	6.39	6.16	1415	82.39	0.82	7.1	2.3	2.5	20	0.0067	27
AMS112M-4	4	5.5	8.78	8.34	8.04	1430	84.47	0.83	6.4	2.3	2.6	26.6	0.0095	33.5
AMS132S-4	5.5	7.5	11.6	11	10.6	1445	85.7	0.83	7	2.3	2.5	36.5	0.0214	49.5
AMS132M-4	7.5	10	15.4	14.6	14.1	1445	87	0.84	7	2.2	2.5	49.8	0.0296	57.5
50HZ Synchronous Speed 1000 r/min (6 Poles)														
AMS711-6	0.18	0.25	0.8	0.76	0.73	875	53.5	0.6	4	1	2	2.023	0.00065	6
AMS712-6	0.25	0.34	0.95	0.9	0.87	850	50	0.66	4	1	2	2.81	0.00074	6.3
AMS801-6	0.37	0.5	1.3	1.23	1.19	885	61.97	0.71	4	2	2.1	3.972	0.00158	10
AMS802-6	0.55	0.75	1.79	1.7	1.64	885	65.5	0.72	4	2	2.1	5.905	0.0021	11



ASIA COMMERCE(SHANGHAI)
IMPORT&EXPORT
CORPORATION

Model	Output		Current(A)			Speed	Eff	Power Factor	Tstart/ Tn	Ist/In	Tmax/T n	NM	M.Of Inertia	KG
	KW	HP	380V	400V	415V	(r/min)	(%)						KGM ²	
AMS90S-6	0.75	1	2.18	2.07	1.99	915	71.08	0.72	4	2	2.2	7.875	0.0029	13
AMS90L-6	1.1	1.5	3.04	2.88	2.78	915	73.66	0.73	4	2	2.2	11.6	0.0035	14
AMS100L-6	1.5	2	3.92	3.72	3.59	920	76.76	0.76	6.2	2.1	2.2	15.2	0.0069	23
AMS112M-6	2.2	3	5.5	5.23	5.04	935	79.59	0.76	5	2.2	2.2	22.4	0.0138	25
AMS132S-6	3	4	7.35	6.98	6.73	960	81	0.76	6.3	2.2	2.2	29.9	0.0286	28
AMS132M1-6	4	5.5	9.6	9.12	8.79	965	82	0.76	6.4	2.4	2.9	39.8	0.0357	45
AMS132M2-6	5.5	7.5	12.8	12.1	11.7	965	84	0.77	6.5	2.4	2.8	54.7	0.0449	55
50HZ Synchronous Speed 750 r/min (8 Poles)														
AMS801-8	0.18	0.25	0.82	0.77	0.75	645	49.9	0.59	2.9	1.8	2	2.687	0.00158	10
AMS802-8	0.25	0.34	1.07	1.02	0.98	645	53.12	0.59	2.9	1.8	2	3.732	0.0021	11
AMS90S-8	0.37	0.5	1.44	1.37	1.32	670	63.61	0.59	3.2	1.9	2.3	5.357	0.0029	13
AMS90L-8	0.55	0.75	2.04	1.94	1.87	670	64.82	0.61	3.2	2	2.3	7.963	0.0035	14
AMS100L1-8	0.75	1	2.4	2.28	2.19	685	71.36	0.67	4.7	2	2.2	10.4	0.0069	23
AMS100L2-8	1.1	1.5	3.42	3.25	3.13	690	73.01	0.71	5	1.8	2.2	15.2	0.0107	25
AMS112M-8	1.5	2	4.4	4.18	4.03	730	75.02	0.68	5	2	2.5	20.8	0.0149	28
AMS132S-8	2.2	3	6.04	5.73	5.53	705	78	0.71	6	1.8	2.8	29.6	0.0314	45
AMS132M-8	3	4	7.82	7.43	7.16	710	81	0.73	6	1.8	2.8	40.4	0.0395	55