

## NEW 'C' Series

### 'BSM' Brushless ac Servo Motors

- High performance Brushless ac Servo Motors provide fast response and are designed to ensure maximum in-field durability and reliability. They offer an extremely high torque to inertia ratio in a compact and well thought-out package.
- 'BSM 63A/80A/90A/100A' motors incorporate ultra low inertia 'samarium cobalt' (rare earth) magnets to ensure optimum acceleration and operational performance for the most demanding applications.
- 'BSM 50N/63N/80N/90N/100N' incorporate ultra low inertia 'niodymium' magnets which provide performance comparable to 'rare earth' magnets and lower cost advantages.
- 'BSM 80B/90B/100B' motors provide the high performance and economy for normal applications.
- 'BSM C Series Motors' are the most cost effective Baldor brushless servo motor per unit of torque. They have been developed with a new 'Ring Magnet' rotor design which incorporates Neodymium magnet material. Major advantages include a 20-50% increase in torque and a reduced length of the motor (when compared with B series ferrite magnet motors). C series motors will also be available in the BSM100 size in the near future.

Also see additional features on page 8



'BSM 63A' ac Servomotor

Catalogue Number	Cont. Stall Torque Nm	Current at Cont. Stall Torque A	Peak Stall Torque Nm	Current at Peak Stall Torque A	Rated Tqe at 2000rpm Nm	Rated Tqe at 4000rpm Nm	Rated Tqe at 6000rpm Nm	Max Speed rpm
BSM50N-175AA	<b>0.45</b>	0.69	1.42	2.00	0.40	0.30	—	7000
BSM63N-150AA	<b>0.77</b>	1.98	3.08	7.14	0.67	0.65	0.63	7000
BSM63N-175AA	<b>0.77</b>	1.08	3.08	3.91	0.68	0.65	—	7000
BSM63A-150AA	<b>0.77</b>	1.90	3.00	7.80	0.64	0.60	0.52	7000
BSM63A-175AA	<b>0.77</b>	1.10	3.00	4.00	0.72	0.69	—	7000
BSM50N-275AA	<b>0.91</b>	1.40	3.62	5.00	0.85	0.78	—	7000
BSM50N-375AA	<b>1.36</b>	2.20	5.42	8.00	1.28	1.12	—	7000
BSM63N-250AA	<b>1.47</b>	3.05	5.88	10.99	1.25	1.23	1.23	7000
BSM63N-275AA	<b>1.47</b>	2.11	5.88	7.61	1.25	1.23	—	7000
BSM63A-250AA	<b>1.47</b>	3.30	5.42	13.00	1.44	1.42	1.36	7000
BSM63A-275AA	<b>1.47</b>	2.10	5.42	8.00	1.39	1.28	—	7000
BSM80B-150AA	<b>1.63</b>	3.70	4.75	11.00	1.49	1.34	1.20	7000
BSM80B-175AA	<b>1.63</b>	2.60	4.75	8.00	1.38	1.13	—	7000
BSM80N-150AA	<b>1.65</b>	3.05	6.60	11.00	1.57	1.57	1.57	7000
BSM80N-175AA	<b>1.65</b>	2.14	6.60	7.69	1.57	1.57	—	7000
BSM80A-150AA	<b>1.65</b>	3.20	6.10	12.00	1.64	1.64	1.62	7000
BSM80A-175AA	<b>1.65</b>	2.20	6.10	9.00	1.65	1.64	—	7000
BSM63N-350AA	<b>2.09</b>	4.40	8.36	15.86	1.89	1.77	1.75	7000
BSM63N-375AA	<b>2.09</b>	3.09	8.36	11.15	1.75	1.61	—	7000
BSM63A-350AA	<b>2.09</b>	4.50	7.68	17.00	1.99	1.91	1.82	7000
BSM63A-375AA	<b>2.09</b>	3.00	7.68	12.00	2.07	2.01	—	7000
BSM80B-250AA	<b>2.20</b>	4.30	6.44	14.00	2.21	2.17	2.13	7000
BSM80B-275AA	<b>2.20</b>	3.50	6.44	13.00	2.11	2.03	1.91	7000
BSM90B-175AA	<b>2.35</b>	3.70	6.44	11.00	2.17	2.09	1.96	6000
BSM90B-1150AA	<b>2.35</b>	1.90	6.44	6.00	2.15	2.02	1.88	6000
BSM90B-1250AA	<b>2.35</b>	1.40	6.44	4.00	1.89	1.51	—	6000
BSM80C-275AA	<b>2.40</b>	3.24	7.20	9.72	2.26	1.13	—	7000
BSM80B-350AA	<b>3.08</b>	7.00	8.43	21.00	2.93	2.76	2.60	7000
BSM80B-375AA	<b>3.08</b>	5.20	8.43	16.00	2.70	2.40	—	7000
BSM80N-250AA	<b>3.20</b>	5.60	12.80	20.20	3.00	2.85	2.70	7000
BSM80N-275AA	<b>3.20</b>	3.90	12.80	14.00	3.00	2.80	—	7000
BSM80A-250AA	<b>3.20</b>	6.00	11.86	25.00	3.10	2.95	2.83	7000
BSM80A-275AA	<b>3.20</b>	4.30	11.86	16.00	3.19	3.13	—	7000
BSM80C-375AA	<b>3.60</b>	6.29	10.80	18.87	3.40	3.26	—	7000
BSM90B-275AA	<b>4.30</b>	7.10	12.32	21.00	3.62	3.00	—	6000
BSM90B-2150AA	<b>4.30</b>	3.70	12.32	11.00	4.22	4.15	4.04	6000
BSM90B-2250AA	<b>4.30</b>	2.00	12.32	6.00	3.34	2.37	—	6000
BSM80N-350AA	<b>4.52</b>	8.61	18.08	31.01	4.00	3.80	3.60	7000
BSM80N-375AA	<b>4.52</b>	5.54	18.08	19.96	4.00	3.90	—	7000
BSM80A-350AA	<b>4.52</b>	9.10	16.95	35.00	4.33	4.17	4.00	7000
BSM80A-375AA	<b>4.52</b>	5.70	16.95	22.00	4.33	4.13	—	7000
BSM90C-275AA	<b>5.20</b>	9.02	15.70	27.06	4.97	4.75	—	6000
BSM90C-2150AA	<b>5.20</b>	4.41	15.70	13.23	5.08	4.52	—	6000
BSM90N-175AA	<b>6.00</b>	8.00	24.00	29.00	6.00	6.00	—	6000
BSM90N-1150AA	<b>6.00</b>	4.10	24.00	15.00	6.00	6.00	—	6000
BSM90N-1250AA	<b>6.00</b>	2.60	24.00	9.68	6.00	—	—	4000
BSM90A-175AA	<b>6.00</b>	8.60	22.60	33.00	5.25	4.38	—	6000
BSM90A-1150AA	<b>6.00</b>	4.50	22.60	17.00	5.00	4.13	—	6000

Continued on Page 8 and 9.

NOTE — For a detailed explanation of motor nomenclature see page 10.

Catalogue Number	Motor Winding Constant Vrms/krpm	Motor Torque Constant Kt Nm/A	Resistance (L-L) ohms	Inductance (L-L) mH	Rotor Inertia kgcm <sup>2</sup>	N° of Motor Poles	Safe Amplifier Nom Current A	Combination Motor/Amplifier Stall Trq Nm	Peak Trq Nm
BSM50N-175AA	45.90	0.75	47.60	68.00	0.068	4	2.5*	0.45	1.42
BSM63N-150AA	26.04	0.43	12.10	17.20	0.203	4	2.5*	0.77	2.15
BSM63N-175AA	47.60	0.79	37.40	53.63	0.203	4	2.5*	0.77	3.08
BSM63A-150AA	24.90	0.41	12.10	17.20	0.203	4	2.5*	0.77	2.05
BSM63A-175AA	44.00	0.72	37.40	53.63	0.203	4	2.5*	0.77	2.88
BSM50N-275AA	45.90	0.75	16.20	35.10	0.124	4	2.5*	0.91	3.62
BSM50N-375AA	43.60	0.72	8.25	15.16	0.180	4	2.5*	1.36	3.95
BSM63N-250AA	32.33	0.54	5.60	11.47	0.384	4	2.5	1.34	2.68
BSM63N-275AA	46.71	0.77	11.60	24.77	0.384	4	2.5*	1.47	3.86
BSM63A-250AA	29.00	0.48	5.60	11.57	0.384	4	5*	1.47	4.80
BSM63A-275AA	44.60	0.73	11.60	24.77	0.384	4	2.5*	1.47	3.65
BSM80B-150AA	30.60	0.51	4.00	12.73	3.501	4	5*	1.63	4.75
BSM80B-175AA	44.70	0.74	7.80	26.77	3.501	4	2.5	1.63	3.70
BSM80N-150AA	36.30	0.60	5.10	13.97	0.915	4	2.5	1.50	3.00
BSM80N-175AA	51.80	0.85	9.53	28.00	0.915	4	2.5*	1.65	4.25
BSM80A-150AA	32.70	0.54	5.10	13.97	0.915	4	5*	1.65	5.40
BSM80A-175AA	47.40	0.78	9.50	28.00	0.915	4	2.5*	1.65	3.90
BSM63N-350AA	31.88	0.53	3.28	5.87	0.564	4	5*	2.09	5.27
BSM63N-375AA	45.36	0.75	5.92	13.67	0.564	4	2.5	1.88	3.75
BSM63A-350AA	29.80	0.49	3.20	5.87	0.564	4	5*	2.09	4.90
BSM63A-375AA	43.00	0.71	5.90	13.67	0.564	4	5*	2.09	7.10
BSM80B-250AA	32.70	0.54	2.50	7.66	5.649	4	5*	2.20	5.40
BSM80B-275AA	46.20	0.76	4.80	17.93	5.649	4	5*	2.20	6.44
BSM90B-175AA	45.00	0.74	3.80	14.19	4.519	8	5*	2.35	6.44
BSM90B-1150AA	84.00	1.38	12.70	49.45	4.519	8	2.5*	2.35	6.44
BSM90B-1250AA	116.30	1.92	21.40	92.56	4.519	8	2.5*	2.35	6.44
BSM80C-275AA	52.73	0.87	7.29	18.93	3.73	4	2.5	2.18	4.36
BSM80B-350AA	31.20	0.51	1.50	5.57	7.682	4	10*	3.08	10.20
BSM80B-375AA	41.80	0.69	2.70	9.41	7.682	4	5	3.08	6.90
BSM80N-250AA	38.29	0.63	0.81	5.30	1.717	4	5	3.17	6.33
BSM80N-275AA	54.70	0.90	3.20	12.73	1.717	4	5*	3.20	9.04
BSM80A-250AA	33.80	0.55	1.80	5.30	1.717	4	7.5*	3.20	8.25
BSM80A-275AA	47.50	0.78	3.20	12.75	1.717	4	5*	3.20	7.80
BSM80C-375AA	40.70	0.67	2.25	8.25	3.53	4	5	3.35	6.70
BSM90B-275AA	42.80	0.70	1.20	5.28	8.93	8	7.5*	4.30	10.50
BSM90B-2150AA	82.30	1.36	4.60	22.36	8.93	8	5*	4.30	12.32
BSM90B-2250AA	146.70	2.42	16.10	62.06	8.93	8	2.5*	4.30	12.10
BSM80N-350AA	35.20	0.58	0.94	4.00	2.519	4	7.5	4.37	8.75
BSM80N-375AA	54.70	0.91	2.22	9.30	2.519	4	5	4.52	9.06
BSM80A-350AA	31.20	0.51	0.90	4.00	2.52	4	10*	4.52	10.20
BSM80A-375AA	50.20	0.83	2.20	9.30	2.52	4	5*	4.15	8.30
BSM90C-275AA	40.99	0.68	2.25	8.25	8.81	8	7.5	5.10	10.00
BSM90C-2150AA	83.81	1.39	2.07	14.83	8.81	8	3	4.17	8.00
BSM90N-175AA	49.96	0.83	1.24	4.15	3.39	8	7.5	6.00	12.39
BSM90N-1150AA	96.79	1.60	4.33	17.60	3.39	8	5*	6.00	16.00
BSM90N-1250AA	149.89	2.47	10.66	43.50	3.39	8	2.5	6.00	12.35
BSM90A-175AA	44.20	0.73	1.20	4.15	3.39	8	7.5*	5.48	10.95
BSM90A-1150AA	85.50	1.41	4.30	17.60	3.39	8	5	6.00	14.10

Continued on Page 8 and 9.

NOTE — For a detailed explanation of motor nomenclature see page 10.

## Brushless ac Servomotor & Servodriver 'Matched Performance'™ Selection Guide

The specification tables for BSM Servomotors on pages 6 to 9 provide some basic information which will assist with quick selection of a suitable Servodriver to suit individual motors in our range.

Before using these tables, ensure that all load and application information is analysed, and all calculations necessary to determine the correct motor for your application have been completed.

One critical selection criteria is 'Inertia Matching'. This is the 'motor's rotor inertia' matched to the 'load inertia reflected back to the motor shaft'. A ratio of 1:1 is ideal. Ratios of 1:5 are possible and in some circumstances higher ratios are possible, but may not be recommended due to stability problems.

**IMPORTANT – When using these tables, the information relating to 'Recommended Safe Amplifier Nominal Current' should be adhered to unless specific advice is obtained from our technical support team.**

**Safe Amplifier Nominal Currents marked with \* exceed the continuous current rating of the motor and could cause motor overheating if the load exceeds the motor torque.**

Using the correct motor as the basis of your system, determine the 'Recommended Safe Amplifier Nominal Current' figure from the table, then select a suitable Servodriver which has the same 'Nominal Current' from the various types offered on the following pages.

Some variations to these recommendations may be possible depending on the application characteristics. Further technical assistance is more likely to be needed where a particularly high peak torque output is required for rapid acceleration.

**IMPORTANT – Safe Amplifier Nominal Currents marked with \* exceed the continuous current rating of the motor and could cause motor overheating if the load exceeds the motor torque.**

**'C' Series**  
**'BSM' Brushless ac Servo Motors**  
(continued)



**'BSM 63A' ac Servomotor**

- Totally Enclosed Non Ventilated (TENV) casing prevents entry of any dust and other detrimental materials.
- Rugged integral feedback sensor/brushless resolver.
- Standard IEC mounting dimensions for easy integration into your equipment.
- NO BRUSHES, NO CARBON DUST and NO MAINTENANCE.
- Inertia of a typical ac servomotor is substantially less than its dc counterpart. This results in lower total inertia and more net usable power for the load.
- Excellent heat transfer design yields lower temperature rise and longer bearing life.
- Optimum rotor inertia mass through use of high quality permanent magnets.
- Up to 5 times the continuous torque is permissible.
- Rated speed range up to 7,000 rpm with constant torque up to rated speed.
- Small electrical and mechanical time constants.
- Protection IP 54 standard.

Catalogue Number	Cont. Stall Torque Nm	Current at Cont. Stall Torque A	Peak Stall Torque Nm	Current at Peak Stall Torque A	Rated Tq <sub>e</sub> at 2000rpm Nm	Rated Tq <sub>e</sub> at 4000rpm Nm	Rated Tq <sub>e</sub> at 6000rpm Nm	Max Speed rpm
BSM90A-1250AA	6.00	2.80	22.60	11.00	5.38	4.75	—	4000
BSM100B-175AA	6.40	10.40	18.64	31.00	6.20	6.00	—	3000
BSM100B-1150AA	6.40	5.10	18.64	15.00	6.25	6.00	—	3000
BSM100B-1250AA	6.40	3.30	18.64	10.00	6.15	—	—	3000
BSM90B-375AA	6.50	11.10	18.98	33.00	5.45	4.49	—	6000
BSM90B-3150AA	6.50	5.30	18.98	16.00	6.02	5.57	5.28	6000
BSM90B-3250AA	6.50	3.00	18.98	9.00	5.06	3.81	—	6000
BSM90C-375AA	7.80	12.10	23.30	36.30	7.46	6.80	—	6000
BSM90C-3150AA	7.80	6.00	23.30	18.00	7.34	6.80	—	6000
BSM90N-275AA	10.00	12.00	40.00	43.29	9.50	9.00	—	6000
BSM90N-2150AA	10.00	6.30	40.00	22.90	9.00	8.00	—	5700
BSM90N-2250AA	10.00	4.30	40.00	15.58	8.50	—	—	4000
BSM90A-275AA	10.00	12.90	37.74	49.00	9.09	8.45	—	6000
BSM90A-2150AA	10.00	6.70	37.74	26.00	8.45	7.09	5.64	5700
BSM90A-2250AA	10.00	4.60	37.74	18.00	9.35	8.81	—	4000
BSM100B-275AA	12.00	18.70	35.25	56.00	11.42	11.00	—	3000
BSM100B-2150AA	12.00	9.20	35.25	27.00	11.23	11.00	—	3000
BSM100B-2250AA	12.00	6.10	35.25	18.00	11.52	—	—	3000
BSM90N-375AA	13.30	19.60	53.20	70.73	13.30	13.00	—	6000
BSM90N-3150AA	13.30	8.92	53.20	32.14	13.30	13.00	—	5800
BSM90N-3250AA	13.30	5.77	53.20	20.79	13.30	—	—	4000
BSM90A-375AA	13.30	20.30	49.70	78.00	12.64	11.93	—	6000
BSM90A-3150AA	13.30	9.30	49.70	35.00	12.07	10.91	9.77	5800
BSM90A-3250AA	13.30	6.30	49.70	24.00	12.41	11.45	—	4000
BSM100N-1150AA	14.00	10.20	56.00	36.95	11.00	—	—	3000
BSM100N-1250AA	14.00	6.40	56.00	23.09	10.80	—	—	3000
BSM100A-1150AA	14.20	10.30	53.67	39.00	11.61	—	—	3000
BSM100A-1250AA	14.20	6.20	53.67	24.00	11.21	—	—	3000
BSM100B-375AA	17.00	27.30	49.50	81.00	16.57	13.00	—	6000
BSM100B-3150AA	17.00	14.00	49.50	42.00	16.42	13.00	—	6000
BSM100B-3250AA	17.00	8.20	49.50	24.00	16.72	—	—	6000
BSM100B-475AA	20.00	35.00	58.75	104.00	19.26	15.00	—	6000
BSM100B-4150AA	20.00	16.40	58.75	48.00	19.07	15.00	—	6000
BSM100B-4250AA	20.00	9.80	58.75	29.00	19.26	—	—	6000
BSM100N-2150AA	23.00	16.80	92.00	60.73	22.00	—	—	3000
BSM100N-2250AA	23.00	10.80	92.00	39.00	20.50	—	—	3000
BSM100A-2150AA	23.10	17.60	87.00	64.00	21.00	—	—	3000
BSM100A-2250AA	23.10	10.80	87.00	41.00	21.00	—	—	3000
BSM100N-3150AA	33.90	22.90	136.00	82.47	19.50	—	—	3000
BSM100N-3250AA	33.90	16.03	136.00	57.73	20.00	—	—	3000
BSM100A-3150AA	33.90	22.90	128.20	87.00	21.00	—	—	3000
BSM100A-3250AA	33.90	16.60	128.20	63.00	21.00	—	—	3000
BSM100N-4150AA	40.00	28.90	160.00	104.23	27.50	—	—	3000
BSM100N-4250AA	40.00	18.00	160.00	48.84	27.50	—	—	3000
BSM100A-4150AA	41.40	31.70	162.00	120.00	27.50	—	—	3000
BSM100A-4250AA	41.40	19.00	162.00	72.00	27.50	—	—	3000
Refer to page 11 for options								

NOTE — For a detailed explanation of motor nomenclature see page 10.

## Brushless ac Servomotor & Servodriver 'Matched Performance'™ Selection Guide

The specification tables for BSM Servomotors on pages 6 to 9 provide some basic information which will assist with quick selection of a suitable Servodriver to suit individual motors in our range.

Before using these tables, ensure that all load and application information is analysed, and all calculations necessary to determine the correct motor for your application have been completed.

One critical selection criteria is 'Inertia Matching'. This is the 'motor's rotor inertia' matched to the 'load inertia reflected back to the motor shaft'. A ratio of 1:1 is ideal. Ratios of 1:5 are possible and in some circumstances higher ratios are possible, but may not be recommended due to stability problems.

**IMPORTANT – When using these tables, the information relating to 'Recommended Safe Amplifier Nominal Current' should be adhered to unless specific advice is obtained from our technical support team.**

**Safe Amplifier Nominal Currents marked with \* exceed the continuous current rating of the motor and could cause motor overheating if the load exceeds the motor torque.**

Using the correct motor as the basis of your system, determine the 'Recommended Safe Amplifier Nominal Current' figure from the table, then select a suitable Servodriver which has the same 'Nominal Current' from the various types offered on the following pages.

Some variations to these recommendations may be possible depending on the application characteristics. Further technical assistance is more likely to be needed where a particularly high peak torque output is required for rapid acceleration.

**IMPORTANT – Safe Amplifier Nominal Currents marked with \* exceed the continuous current rating of the motor and could cause motor overheating if the load exceeds the motor torque.**

Catalogue Number	Motor Winding Constant Vrms/krpm	Motor Torque Constant Kt Nm/A	Resistance (L-L) ohms	Inductance (L-L) mH	Rotor Inertia kgcm <sup>2</sup>	N <sup>o</sup> of Motor Poles	Safe Amplifier Nom Current A	Combination Motor/Amplifier Stall Trq Nm	Peak Trq Nm
BSM90A-1250AA	132.20	2.18	10.60	37.35	3.39	8	5*	6.00	21.80
BSM100B-175AA	43.50	0.72	0.90	5.44	21.29	8	10	6.40	14.40
BSM100B-1150AA	89.10	1.47	3.70	21.77	21.29	8	5	6.40	14.70
BSM100B-1250AA	137.80	2.28	8.40	48.99	21.29	8	5*	6.40	18.64
BSM90B-375AA	41.60	0.68	0.60	3.38	13.22	8	15*	6.50	20.40
BSM90B-3150AA	87.00	1.44	2.80	15.50	13.22	8	5	6.50	14.40
BSM90B-3250AA	152.60	2.52	9.40	46.70	13.22	8	5*	6.50	18.98
BSM90C-375AA	45.90	0.76	0.69	2.65	13.21	8	10	7.60	15.00
BSM90C-3150AA	91.80	1.52	2.74	11.43	13.21	8	5	7.60	15.00
BSM90N-275AA	55.88	0.92	0.52	2.66	6.33	8	10	9.24	18.48
BSM90N-2150AA	105.80	1.75	0.92	10.50	6.33	8	5	8.73	17.46
BSM90N-2250AA	155.25	2.57	3.94	22.50	6.33	8	5*	10.00	25.68
BSM90A-275AA	49.00	0.81	0.50	2.66	6.33	8	15*	10.00	24.30
BSM90A-2150AA	93.70	1.55	1.90	10.50	6.33	8	7.5	10.00	23.25
BSM90A-2250AA	136.40	2.25	3.80	22.50	6.33	8	5*	10.00	22.50
BSM100B-275AA	45.60	0.75	0.30	2.61	43.61	8	25*	12.00	37.50
BSM100B-2150AA	93.20	1.54	1.40	11.50	43.61	8	7.5	11.55	23.10
BSM100B-2250AA	140.40	2.32	3.20	24.10	43.61	8	5*	11.60	23.20
BSM90N-375AA	41.34	0.68	0.21	1.26	9.26	8	20	13.30	27.36
BSM90N-3150AA	90.97	1.51	1.02	5.53	9.26	8	10	13.30	30.10
BSM90N-3250AA	140.65	2.33	2.39	13.18	9.26	8	5	11.63	23.26
BSM90A-375AA	41.50	0.68	0.20	1.14	9.26	8	25*	13.30	34.00
BSM90A-3150AA	90.80	1.50	1.00	5.53	9.26	8	7.5	11.25	22.50
BSM90A-3250AA	132.60	2.32	2.30	13.18	9.26	8	7.5	13.30	34.80
BSM100N-1150AA	91.32	1.52	0.92	6.68	13.56	8	10	14.00	30.30
BSM100N-1250AA	146.59	2.43	2.36	17.57	13.56	8	5	12.13	24.25
BSM100A-1150AA	87.70	1.45	0.91	6.68	13.56	8	10	14.20	21.41
BSM100A-1250AA	145.00	2.39	2.30	18.50	13.56	8	7.5	14.20	34.35
BSM100B-375AA	44.30	0.73	0.20	1.53	66.14	8	25	17.00	36.50
BSM100B-3150AA	86.20	1.47	0.80	6.04	66.14	8	15*	17.00	44.10
BSM100B-3250AA	146.80	2.43	2.00	19.50	66.14	8	7.5	17.00	36.45
BSM100B-475AA	40.50	0.67	0.13	1.03	75.43	8	35	20.00	46.90
BSM100B-4150AA	87.10	1.44	0.65	5.58	75.43	8	15	20.00	43.20
BSM100B-4250AA	145.20	2.40	2.00	18.27	75.43	8	7.5	18.00	36.00
BSM100N-2150AA	91.56	1.52	0.40	3.33	22.15	8	15	22.73	45.45
BSM100N-2250AA	142.45	2.36	0.88	8.35	22.15	8	10	23.00	47.12
BSM100A-2150AA	87.20	1.44	0.41	3.58	22.15	8	25*	23.10	38.50
BSM100A-2250AA	135.60	2.24	0.89	7.66	22.15	8	15*	23.10	41.40
BSM100N-3150AA	99.69	1.65	0.25	2.74	30.84	8	20	32.98	65.96
BSM100N-3250AA	142.42	2.36	0.61	5.96	30.84	8	15*	34.00	70.68
BSM100A-3150AA	93.40	1.55	0.25	3.06	30.88	8	25*	33.90	77.50
BSM100A-3250AA	134.30	2.25	0.61	5.96	30.88	8	25*	33.90	106.50
BSM100N-4150AA	92.83	1.54	0.18	1.87	39.43	8	27.5*	40.00	84.43
BSM100N-4250AA	148.53	2.46	0.42	4.86	39.43	8	15	36.86	73.71
BSM100A-4150AA	86.50	1.43	0.18	1.95	39.43	8	35*	41.40	95.90
BSM100A-4250AA	138.50	2.29	0.42	4.86	39.43	8	25*	41.40	114.50
Refer to page 11 for options									

Details continued from over page

Details continued from over page