

Axial Flow Fans - Low Voltage dc - continued

Miniature, 'Ultraslim' - continued

Voltage V dc	Power Watts	Air Flow cu ft/min	ltrs/sec	Noise dBA@1m	Mfrs. List No.	Order Code
12 ± 15%	0.72	2.0	0.9	24	GM1202PFV2-8.GN	960-6491
12 ± 15%	0.84	3.0	1.4	20.5	GM1203PFV2-8.GN	960-6505
12 ± 15%	0.84	4.5	2.1	21	GM1235PFV2-8.GN	960-6513
12 ± 15%	0.6	6.2	2.9	24.5	KDE1204PFV2.11.MS.A.GN	960-6521

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Dimension H W D	Voltage V dc	Order Code	1+	10+	25+	50+	+	+
25 25 10	12	960-6491	924.00	804.00	764.00	662.00	--	--
30 30 10	12	960-6505	924.00	804.00	764.00	662.00	--	--
35 35 10	12	960-6513	924.00	804.00	764.00	662.00	--	--
40 40 10	12	960-6521	682.00	597.00	566.00	495.00	--	--

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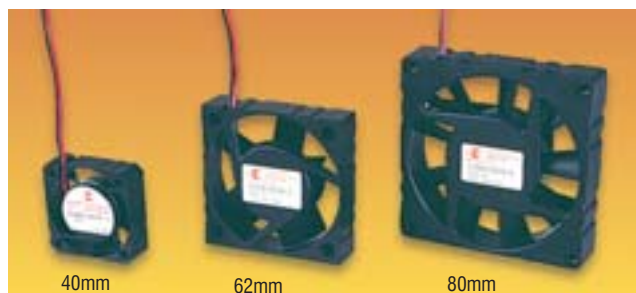
Voltage V dc	Power Watts	Air Flow Cu. ft./min.	ltrs/sec	Noise dB(A)C/M	Mfrs. List No.	Order Code
5	0.7	4.7	2.2	26	405F	960-0620
5	0.9	5.9	2.8	18	405	960-0639
12	0.7	4.7	2.2	26	412F	960-1260
12	0.8	5.6	2.6	29	412FH	960-1279
12	0.9	5.9	2.8	18	412	960-1287
24	0.7	4.7	2.2	26	414F	960-1295
24	0.9	5.9	2.8	18	414	960-1309

Size H W D	Voltage V dc	Order Code	1+	5+	10+	25+	+
40 40 10	5	960-0620	978.00	837.00	754.00	654.00	--
40 40 20	5	960-0639	1,035.00	886.00	799.00	693.00	--
40 40 10	12	960-1260	831.00	711.00	653.00	556.00	--
40 40 10	12	960-1279	856.00	733.00	661.00	574.00	--
40 40 20	12	960-1287	882.00	755.00	680.00	590.00	--
40 40 10	24	960-1295	831.00	711.00	653.00	556.00	--
40 40 20	24	960-1309	882.00	755.00	680.00	590.00	--

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Fans

'Ultra Slim'



- Brushless, low noise 'ultra slim' fans
- Glass-fibre reinforced plastic housing
- Reverse polarity protected
- 80mm 12 and 24V fans are suitable for both AC and DC operators

Life expectancy >30000 hours (sleeved bearings (SB))
>30,000 hours (ball bearings (BB))

Voltage	Power Watts	Air Flow cu ft/min	ltrs/sec	Noise dBA@1m	Operating Temp °C	Lead Length	Bearing Type	Mfrs. List No.	Order Code
40mm									
5V dc	0.7	6.1	2.9	21	-20 to +60	300	BB	F41MM-005XK-9	117-5746
12V dc	1	6.1	2.9	21	-20 to +60	300	BB	F41MM-012XK-9	117-5747
24V dc	1.3	6.1	2.9	21	-20 to +60	300	BB	F41MM-024XK-9	117-5748
62mm									
5V dc	0.8	14.8	7	25	-10 to +65	320	SB	F62MM-005GK-0	117-5751
12V dc	1.1	14.8	7	25	-10 to +65	320	SB	F62MM-012GK-0	117-5752
24V dc	1.2	14.8	7	25	-10 to +65	320	SB	F62MM-024GK-0	117-5753
80mm									
5V dc	1.3	21.2	10	32	-20 to +65	200	SB	F75EM05VDCP	151-077
12V ac/dc	1.5	21.2	10	32	-20 to +65	200	SB	F75EM12VDAP	151-078
24V ac/dc	1.4	21.2	10	32	-20 to +65	200	SB	F75EM24VDAP	151-079

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Dimension H W D	Voltage V dc	Order Code	1+	10+	25+	50+	+
40mm	5V	117-5746	2,188.00	1,955.00	1,844.00	1,614.00	--
	12V	117-5747	2,188.00	1,955.00	1,844.00	1,614.00	--
	24V	117-5748	2,188.00	1,955.00	1,844.00	1,614.00	--
62mm	5V	117-5751	2,188.00	1,955.00	1,844.00	1,614.00	--
	12V	117-5752	2,188.00	1,953.00	1,844.00	1,614.00	--
	24V	117-5753	2,188.00	1,953.00	1,844.00	1,614.00	--
80mm	5V	151-077	2,196.00	1,960.00	1,794.00	1,691.00	--
	12Vac/dc	151-078	2,196.00	1,960.00	1,794.00	1,691.00	--
	24Vac/dc	151-079	2,132.00	1,902.00	1,743.00	1,691.00	--

Miniature, 40mm



- High cooling performance, ideal for CPU's, small devices or heat-intensive areas on printed circuit boards
- Overload and electronic reverse polarity protected
- Fitted with sleeve bearings

'Slimline'



- Brushless, high airflow, low power fans
- Stall and reverse polarity protected
- Glass reinforced pocan (PTB) housings
- Slimline design only 25mm (1") deep, 60mm 15mm (0.59") deep
- Speed sensor options offer integrated speed monitoring using a square wave output which can be used for protection against overheating, component damage or intelligent cooling
- VDE and CSA approved, UL recognised
- 92mm versions UL recognised only

	50mm	60mm	80mm	92mm	119mm
Height	50	60	80	92	119
Width	50	60	80	92	119
Depth	15	15	25	25	25
Cut-out ∅	48	57	77	89	116
Fix Centres	42 x 42	50 x 50	71.5 x 71.5	82.5 x 82.5	104.8 x 104.8
Fix Centres ∅	3.7	3.7	4.5	4.5	4.5

*Speed sensor option: Square wave signal amplitude depends on pull up resistor used. 2 pulses per revolution, open collector without internal pull up resistor

Voltage V dc	Range V dc	Power Watts	Air Flow cu ft/min	ltrs/sec	Noise dBA@1m	Bearing type.	Mfrs. List No.	Order Code
50mm, Standard								
12	10.8 to 13.2	1	11.8	5.5	30	SB	512F	960-0191
24	21.6 to 26.4	1	11.8	5.5	30	SB	514F	960-0205
60mm, Low Noise								
12	10 to 13.2	1.1	17.1	8	27	SB	612F	960-0086
24	21.6 to 26.4	1.1	17.1	8	27	SB	614F	960-0094
80mm, Super Low Noise								
12	8 to 15	0.6	19.4	9.1	12	SB	8412NGL	960-0981
12*	8 to 15	0.6	19.4	9.1	12	SB	8412N/2GL	959-9983
24	18 to 28	0.7	19.4	9.1	12	SB	8414NGL	960-0990
24*	18 to 28	0.7	19.4	9.1	12	SB	8414N/2GL	960-0027
80mm, Low Noise								
12	8 to 15	1.3	34.1	16	26	SB	8412NGM	960-1007
12*	8 to 15	1.3	34.1	16	26	SB	8412N/2GM	959-9991
24	18 to 28	1.4	34.1	16	26	SB	8414NGM	960-1015
24*	18 to 28	1.4	34.1	16	26	SB	8414/2GM	960-0035
80mm, Standard								
12	8 to 15	2	40.6	19.1	32	SB	8412NG	960-1023
12*	8 to 15	2	40.6	19.1	32	SB	8412NG/2	960-0000
24	18 to 28	2	40.6	19.1	32	SB	8414NG	960-1031
24*	18 to 28	2	40.6	19.1	32	SB	8414N/2G	960-0043
12	7 to 15	2.8	46.5	21.9	37	SB	8412NGH	960-1040
12*	7 to 15	2.8	46.5	21.9	37	SB	8412N/2GH	960-0019
24	18 to 28	2.8	46.5	21.9	37	SB	8414NGH	960-1058
24*	18 to 28	2.8	46.5	21.9	37	SB	8414N/2GH	960-0051
92mm, Super Low Noise								
12	8 to 15	1.2	35.9	16.9	23	SB	3412NGL	960-0361
24	18 to 28	1.4	35.9	16.9	23	SB	3414NGL	960-0418
92mm, Low Noise								
12	8 to 15	1.6	42.4	20	28	SB	3412NGM	960-0370
24	18 to 28	1.8	42.4	20	28	SB	3414NGM	960-0426
92mm, Standard								
12	8 to 15	2.2	49.4	23.3	32	SB	3412NG	960-0388
12	8 to 15	2.2	49.4	23.3	32	BB	3412N	960-0396
24	18 to 28	2.3	49.4	23.3	32	SB	3414NG	960-0434
24	18 to 28	2.3	49.4	23.3	32	BB	3414N	960-0442
12	8 to 15	2.5	55.3	26.1	36	SB	3412NGH	960-0400
24	18 to 28	2.5	55.3	26.1	36	SB	3414NGH	960-0450
119mm, Low Noise								
12	7 to 12.6	3.2	82.4	38.8	38	SB	4412FGM	960-1066

Prices are in Thai Baht and exclude 7% VAT. Due to the volatile nature of certain products, prices are subject to change without notice.