

Excellent Integrated System Limited

Stocking Distributor

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Delta Electronics AFB1212SH

For any questions, you can email us directly: sales@integrated-circuit.com



Distributor of Delta Electronics: Excellent Integrated System Limited Datasheet of AFB1212SH - FAN AXIAL 120X25.4MM 12VDC WIRE

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

DELTA ELECTRONICS, INC. 252, SHANG YING ROAD, KUEI SAN

TEL: 886-(0)3-3591968 TAOYUAN SHIEN 333, TAIWAN, R. O. C. FAX : 886-(0)3-3591991

SPECIFICATION FOR APPROVAL

Customer:			
Description:	DC FAN		·
Customer P/N:		REV:	
Delta Model NO.:	AFB1212SH		
Sample Rev:	00	Issue NO:	
Sample Issue Date:	APR.19.2004.	Quantity:	

1. SCOPE:

THIS SPECIFICATION DEFINES THE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS AXIAL FLOW FAN. THE FAN MOTOR IS WITH TWO PHASES AND FOUR POLES.

2. CHARACTERS:

ITEM	DESCRIPTION
RATED VOLTAGE	12 VDC
OPERATION VOLTAGE	7.0 – 13.8 VDC
INPUT CURRENT	0.53 (MAX. 0.80) A
INPUT POWER	6.36 (MAX. 9.60) W
SPEED	3400 R.P.M. (REF.)
MAX. AIR FLOW (AT ZERO STATIC PRESSURE)	3.203 (MIN. 2.883) M ³ /MIN. 113.11 (MIN. 101.81) CFM
MAX. AIR PRESSURE (AT ZERO AIRFLOW)	10.92 (MIN. 8.85) mmH ₂ 0 0.430 (MIN. 0.348) inchH ₂ 0
ACOUSTICAL NOISE (AVG.)	46.5 (MAX. 49.5) dB-A
INSULATION TYPE	UL: CLASS A

(continued)

A00 page: 1



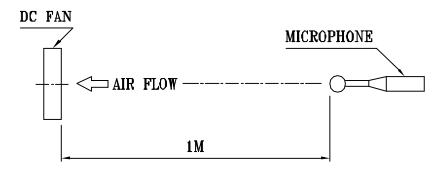


PART NO:
DELTA MODEL: AFB1212SH

	<u> </u>
INSULATION STRENGTH	10 MEG OHM MIN. AT 500 VDC (BETWEEN FRAME AND (+) TERMINAL)
DIELECTRIC STRENGTH	5 mA MAX. AT 500 VAC 60 Hz ONE MINUTE, (BETWEEN FRAME AND (+) TERMINAL)
EXTERNAL COVER	OPEN TYPE
LIFE EXPECTANCE	70,000 HOURS CONTINUOUS OPERATION AT 40 °C WITH 15 ~ 65 %RH.
ROTATION	CLOCKWISE VIEW FROM NAME PLATE SIDE
OVER CURRENT SHUT DOWN	THE CURRENT WILL SHUT DOWN WHEN LOCKING ROTOR
LEAD WIRE	UL 1007 -F- AWG #24 BLACK WIRE NEGATIVE(-) RED WIRE POSITIVE(+)

NOTES: 1. ALL READINGS ARE MEASURED AFTER STABLY WARMING UP THROUGH 10 MINUTES.

- 2. THE VALUES WRITTEN IN PARENS, (), ARE LIMITED SPEC.
- 3. ACOUSTICAL NOISE MEASURING CONDITION:



NOISE IS MEASURED AT RATED VOLTAGE IN FREE AIR IN ANECHOIC CHAMBER WITH B & K SOUND LEVEL METER WITH MICROPHONE AT A DISTANCE OF ONE METER FROM THE FAN INTAKE.



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PART NO:	
DELTA MODEL: AFR1212SH	
3. MECHANICAL:	
3-1. DIMENSIONS	SEE DIMENSIONS DRAWING
3-2. FRAME	PLASTIC UL: 94V-0
3-3. IMPELLER	PLASTIC UL: 94V-0
3-4. BEARING SYSTEM	TWO BALL BEARINGS
3-5. WRIGHT	198 GRAMS
4. ENVIRONMENTAL:	
4-1. OPERATING TEMPERATURE	10 TO +60 DEGREE C
4-2. STORAGE TEMPERATURE	40 TO +75 DEGREE C
4-3. OPERATING HUMIDITY	5 TO 90 % RH
4-4. STORAGE HUMIDITY	5 TO 95 % RH
5. PROTECTION:	
5-1. LOCKED ROTOR PROTECTION	
IMPEDANCE OF MOTOR WINDING PROTHOURS OF LOCKED ROTOR CONDITION	
5-2. POLARITY PROTECTION	

AND NEGATIVE LEADS. 6. RE OZONE DEPLETING SUBSTANCES:

6-1. NO CONTAINING PBBs, PBBOs, CFCs, PBBEs, PBDPEs AND HCFCs.

BE CAPABLE OF WITHSTANDING IF REVERSE CONNECTION FOR POSITIVE

- 7. PRODUCTION LOCATION
 - 7-1. PRODUCTS WILL BE PRODUCED IN CHINA OR THAILAND OR TAIWAN.



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Datasheet of AFB1212SH - FAN AXIAL 120X25.4MM 12VDC WIRE

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PART NO:

DELTA MODEL: AFB1212SH

8. BASIC RELIABILITY REQUIREMENT:

8-1. THERMAL CYCLING LOW TEMPERATURE: -40°C HIGH TEMPERATURE: +80°C SOAK TIME: 30 MINUTES

TRANSITION TIME < 5 MINUTES

DUTY CYCLES: 5

8-2. HUMIDITY EXPOSURE

TEMPERATURE: +25°C ~ +65°C HUMIDITY: 90-98% RH ⊕ +65°C

FOR 4 HOURS/CYCLE

POWER: NON-OPERATING TEST TIME: 168 HOURS

8-3. VIBRATION

TEMPERATURE: +25°C ORIENTATION: X, Y, Z POWER: NON-OPERATING

VIBRATION LEVEL: OVERALL gRMS=3.2

FREQUENCY(Hz) PSD(G^2/Hz)

10 0.040

20 0.100

40 0.100

800 0.002

1000 0.002

TEST TIME: 2 HOURS ON EACH ORIENTATION

8-4. MECHANICAL TEMPERATURE: +20°C

SHOCK

ORIENTATION: X, Y, Z
POWER: NON-OPERATING
ACCELERATION: 20 G MIN.

PULSE: 11 ms HALF-SINE WAVE NUMBER OF SHOCKS: 5 SHOCKS

FOR EACH DIRECTION

8-5. LIFE

TEMPERATURE: MAX, OPERATING TEMPERATURE

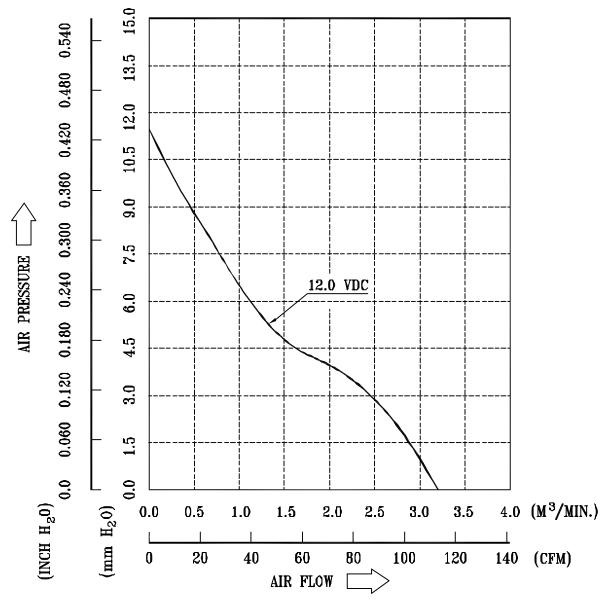
POWER: OPERATING

DURATION: 1000 HOURS MIN.





9. P & Q CURVE:



* TEST CONDITION: INPUT VOLTAGE ----- OPERATION VOLTAGE TEMPERATURE ----- ROOM TEMPERATURE HUMIDITY ------ 65%RH

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Datasheet of AFB1212SH - FAN AXIAL 120X25.4MM 12VDC WIRE

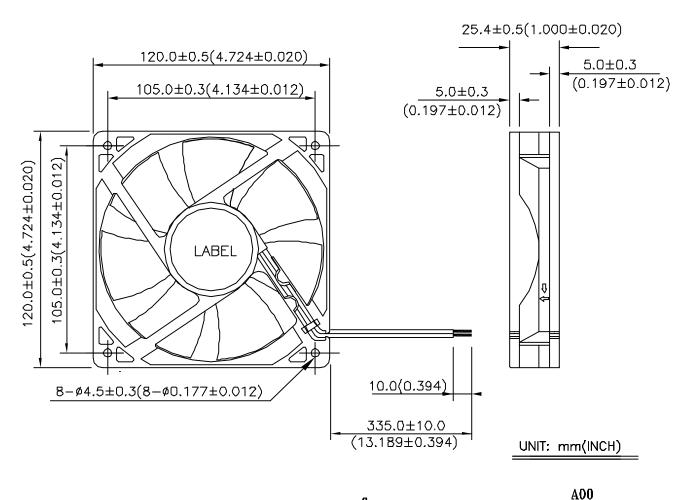
Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

PART NO:
DELTA MODEL: AFB1212SH

10. DIMENSION DRAWING:

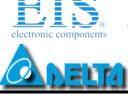
LABEL:





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Descriptions:

- 1. Delta will not guarantee the performance of the products if the application condition falls outside the parameters set forth in the specification.
- 2. A written request should be submitted to Delta prior to approval if deviation from this specification is required.
- 3. Please exercise caution when handling fans. Damage may be caused when pressure is applied to the impeller, if the fans are handled by the lead wires, or if the fans are hard-dropped to the production floor.
- 4. Except as pertains to some special designs, there is no guarantee that the products will be free from any such safety problems or failures as caused by the introduction of powder, droplets of water or encroachment of insect into the hub.
- 5. The above-mentioned conditions are representative of some unique examples and viewed as the first point of reference prior to all other information.
- 6. It is very important to establish the correct polarity before connecting the fan to the power source. Positive (+) and Negative (-). Damage may be caused to the fans if connection is with reverse polarity, as there is no foolproof method to protect against such error.
- 7. Delta fans are not suitable where any corrosive fluids are introduced to their environment.
- 8. Please ensure all fans are stored according to the storage temperature limits specified. Do not store fans in a high humidity environment. We highly recommend performance testing is conducted before shipping, if the fans have been stored over 6 months.
- Not all fans are provided with the Lock Rotor Protection feature. If you impair the rotation of the impeller for the fans that do not have this function, the performance of those fans will lead to failure.
- 10. Please be cautious when mounting the fan. Incorrect mounting of fans may cause excess resonance, vibration and subsequent noise.
- 11. It is important to consider safety when testing the fans. A suitable fan guard should be fitted to the fan to guard against any potential for personal injury.
- 12. Except where specifically stated, all tests are carried out at relative (ambient) temperature and humidity conditions of 25°C, 65%. The test value is only for fan performance itself.
- 13. Be certain to connect an "over $4.7\mu F$ " capacitor to the fan externally when the application calls for using multiple fans in parallel, to avoid any unstable power.



1248, followed by VHE; Model WFB followed by 1248, followed by HHE.

1248, followed by VHE; Model WFB followed by 1248, followed by HHE.

Model EFB followed by 0912 or 0924, followed by H, HH, L, M, SH or VH.

Model WFB followed by 1212 or 1224, followed by H, HE, HH, HHE, L, LE, M or ME; Model WFB followed by 1248, followed by HE, LE
or ME; Model WFC followed by 1212, 1212, followed by B or BE.

Model BFB followed by 1212, 1224 followed by HE.

Model BFB followed by 0305, 03505, followed by HP, LP, MP.

Model BFB followed by 0505 or 0512, followed by HA, LA or MA.

Model BFB followed by 0712, 0724, followed by H, L, M.

Model BFC followed by 1212, followed by A, B; Models BFC1212C, BFC1224C, BFC1248C.

Model EFB followed by 0512, followed by HHA, HA, LA or MA, and EFB0505HA, EFB0505MA, EFB0505LA, followed by FOO or STD.;

Model EFB followed by 0505, followed by HA, LA or MA, followed by FOO or STD.

Model AFC followed by 0512, 0612, 0712, 0812, 0824, 0912 or 0924, followed by "A", "AB", "AD", "B", "BD" or "C"; Model AFC followed by 0912, followed by "A" or "B", followed by -(H), -(H), -(M); Model ASC followed by 0612, 0812, 0912 followed by "A" or "B".

Model ASB followed by H, HH, L, LL or M; Model ASB followed by 0912, followed by H, HH, L, L-V, M; Model ASB followed by 0912, followed by H, HH, L, L-V, M; Model ASB followed by 0912, followed by H, HH, L, L-V, M, M-N.

Model AFB followed by 0612, followed by H, HH, L, L, M, followed by SB; Model AFB followed by 0912, followed by H, L or M, followed by SB; Model AFB followed by 0912, followed by H, L or M, followed by SB; Model AFB followed by 0912, followed by H, L or M, followed by SB; Model AFB followed by 0912, followed by H, L or M, followed by SB; Model AFB followed by 0912, followed by H, L or M, followed by SB; Model AFB followed by 0912, followed by H, L or M, followed by SB; Model AFB followed by 0912, followed by H, L or M, followed by SB.

SB; Model AFB followed by 0912, followed by H, L or M, followed by SB; Model AFB followed by 0912, followed by H, L or M, followed by SB. Model AFB followed by 1212, followed by HE, HHE, LE, ME, SHE VHE; Model AFB followed by 1224, followed by HE, HHE, LE, ME, SHE, VHE; Model AFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1212, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; Model EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by 1248, followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by HE, HHE, LE, ME, SHE, VHE; MODEL EFB followed by HE, HHE, LE, ME, SHE, VHE; MODEL E HHE, LE, ME, SHE, VHE.

Model BFB followed by 1012, followed by H, HH, L, LL or M; Model BFB followed by 1024, followed by H, HH, L, LL or M; Model BFB followed by 1212, followed by H, HH, L, LL, M or VH; Model BFB followed by 1224, followed by H, HH, L, LL or M; Model BFB followed by 1248, followed by H, HH, L, LL or M.

Model BFB followed by 1212, 1224, followed by HE, HHE, LE, ME or VH; Model BFB followed by 1248, followed by HE, LE or ME; Model BFB followed by 1612, followed by H, L or M; Model BFB followed by H, L or M; Model BFB followed by 1624, followed by H, L or M; Model BFB followed by 1648, followed by H, L or M.

Models BFB0405HE, -LE, -ME, BFB0412HE, -HHE, -LE, -ME.
Models AUB0812H, -HH, -L, -LB, -M, -SHB, -VH, AUB0824H, -HH, -L, -LB, -M, -SHB, -VH.
Model BFB followed by 0505, 0512, 0524, followed by H, HH, L or M; Model BSB followed by 0505, 0512, 0524, followed by H, HH, L or

M.
Models EFB1212 -H, -HF, -HH, -HHF, -L, -LF, -M, -MF, -SH, -VH, -VHF, EFB1224 -H, -HF, -HH, -HHF, -L, -LF, -M, -MF, -SH, -VH, -VHF, EFB1248-H, -HH, -L, -M, -SH, -VH, -VHF, EFB1248-H, -HH, -L, -M, -SH, -VH.
Model EFB followed by 0405, followed by HD, HHD, LD, LLD, MD VHD; Model EFB followed by 0412, followed by HD, HHD, LD, LLD, MD, VHD.
Models BFB0305HA, -HHA, -LA, -MA, BFB0312HA, -HHA, -LA, -MA.
Models AFB1512H, -L, -M, AFB1548H, -L, -M, AFB1712H, -L, -M, AFB1748H, -L, -M, EFB1248HF, -HHF, -LF, -MF, -VHF, EFB1548HG, -HHG, -LG, -MG, -VHG.
Models AFB0305LK, -MK, -HK, AFB0405LK, -MK, -HK.
Model BFB03505 followed by HR, LR, MR; Model BFB03505 followed by HA, HHA, LA, MA; Model BFB03512 followed by HA, HHA, LA, MA

Models AFB02505LB, -MB, -HB, -HHB.

Model SFB followed by 0112, followed by H, HH, M or VH; Model SUB followed by 0112, 0212, followed by H, HH, M or VH.

Model EFB followed by 1512, 1712, followed by HG, HHG, LG, MG; Model EFB followed by 1524, 1724, followed by HG, HHG, LG, MG,

SHG or VHG

Model EFB followed by 0912, 0924, followed by HE, HHE, LE or ME.

Model FFB followed by 0848, followed by SHE; Model FFB followed by 0912 or 0924, followed by EHE, HHE, SHE or VHE; Model FFB Model FFB followed by 0948, followed by HHE, SHE or VHE; Model FFB followed by 1212 or 1224, followed by EHE, HHE, SHE or VHE; Model FFB followed by 1248, followed by EHE, HE, SHE or VHE; Model FFB followed by 1248, followed by EHE, SHE or VHE; Model EFC followed by 1212 or 1224, followed by DE; Model EFC followed by 1212 or 1224, followed by DE; Model EFC0412 followed by AD or BD.

Model BFB followed by 0405, 0412, 04505, 04512, 0505 or 0512, followed by HA, HHA, LA or MA.

Model EUB followed by 0405, 0412 or 0424, followed by HD, HHD, LLD or MD; Model EUB followed by 0412 or 0424, followed by

Model ASB followed by 0605, followed by HB, HHB, LB or MB; Model ASB followed by 0612 or 0624, followed by HB, HHB, LB, MB or VHB; Model AUB followed by 0605, followed by HB, HHB, LB or MB; Model AUB followed by 0612 or 0624, followed by HB, HHB, LB, MB

Model AFB followed by 1524, 1724, followed by H, HH, L or M; Model EFC followed by 1248, followed by EE; Model FFB followed by 0812, 0824, followed by HHE, SHE or VHE; Model FFB0848 followed by HHE, VHE or SHE.

Model BFB followed by 0405, 0505 or 04505, followed by HP, LP or MP.

Model EFB followed by 0612, followed by HA, HHA, LA or MA.

Model AUB followed by 0612, followed by HB, HHE, LE or ME.

Model EFB followed by 0612 or 0824, followed by EH, SH or VH.

Model EFB followed by 0812 or 0824, followed by HE, HHE, LE or ME.

Model ASB followed by 0605, followed by HD, HHD, LD or MD; Model ASB followed by 0612 or 0624, followed by HD, HHD, LD, MD or VHD; Model AUB followed by 0605, 0612 or 0624, followed by HD, HHD, LD or MD; Model AUB followed by 0612 or 0624, followed by VHD, HHD, LD or MD; Model AUB followed by 0612 or 0624, followed by VHD.

Model EFB followed by 0912 or 0924, followed by HF, HHF, LF, MF, SHF or VHF.

Model EFB followed by 1312 or 1324, followed by HE, HHE, LE, ME, SHE or VHE; Model EFB followed by 1348, followed by HE, HHE, LE, ME or VHE

Model ASB followed by 0712 or 0724, followed by H, HH, L, M or VH; Model AUB followed by 0712 or 0724, followed by H, HH, L, M or

Model EFB followed by 0812 or 0824, followed by EHF, HF, HHE, LF, MF, SHF or VHE.

Model EFC followed by 0912, followed by AE or BE.

Model HFB followed by 0605, 0612 or 0624, followed by HB, HD, HHB, HHD, LB, LD, MB or MD.

Model AFB followed by 1212 or 1224, followed by H, HH, L, M, SH or VH.

Model KFB followed by 03205, followed by HP, LP or MP; Model KFB followed by 03205, followed by HA, LA or MA.

Model FFB followed by 1312, 1324, 1348, followed by EHE, SHE or VHE.

Page 2 of 3 GPWV2/E132003 673621005 June 4, 2003







Certification Record No: 091949 0 000

Class No: 3812 01

			Class No: 38	312 01
FFB1324VHE	24	900	STD, F00, R00	
FFB1324SHE	24	1260	STD, F00, R00	
FFB1324EHE	24	1800	STD, F00, R00	
FFB1348VHE	48	500	STD, F00, R00	-
FFB1348SHE	48	680	STD, F00, R00	
FFB1348EHE	48	1000	STD, F00, R00	
AFB1212L	12	210	STD, F00, R00	÷
AFB1212M	12	270	STD, F00, R00	
AFB1212H	12	350	STD, F00, R00	•
AFB1212HH	. 12	500	STD, F00, R00	
AFB1212VH	12	600	STD, F00, R00	
AFB1212SH	12	800	STD, F00, R00	
AFB1224L	24	140	STD, F00, R00	
AFB1224M	24	180	STD, F00, R00	
AFB1224H	24	210	STD, F00, R00	
AFB1224HH	24	270	STD, F00, R00	,
AFB1224VH	24	350	STD, F00, R00	•
AFB1224SH	24	420	STD, F00, R00	
AUB0712L	12	80	STD, F00, R00	
AUB0712M	12	120	STD, F00, R00	
AUB0712H	12	180	STD, F00, R00	
AUB0712HH	12	210	STD, F00, R00	
AUB0712VH	12	300	STD, F00, R00	
AUB0724L	24	$ \begin{array}{c} Q \\ \hline PA \end{array} $	STD, F00, R00	

DQD No. 548 99/04/08



VDE Prüf- und Zertifizierungsinstitut Gutachten mit Fertigungsüberwachung

Ausweis-Nr. / Blatt / Licence No. page 128374 2

Name und Sitz des Genehmigungs-Inhabers / Name and registered seat of the Licence holder Delta Electronics Inc., 186 Ruey Kuang Road, NEIHU TAIPEI (114), TAIWAN

Aktenzeichen / File ref. 1164100-2611-0003 / 31147 / F131 / DO letzte Änderung / updated Datum / Date 2003-05-28 2000-05-26

Dieses Blatt gilt nur in Verbindung mit Blatt 1 des Gutachtens mit Fertigungsüberwachung Nr. 128374. This supplement is only valid in conjunction with page 1 of the Certificate of Conformity with factory surveillance No. 128374.

Einbauventilator, Büromaschinen Fan for building-in, office machines

Typ(en) / Type(s):

AUB0612VH/SH/EH	DÇ	12V	
AUB0624VH/SH/EH	DÇ	24V	
AUB0648VH/SH/EH	DC	48V	
FFB1324VHE/SHE/EHE	DC	24V	
FFB1348VHE/SHE/EHE	DC	48V	
AUB0605LD/MD/HD/HHD	DC	5V	
AUB0612LD/MD/HD/HHD/VHD	DC	12V	
AUB0624LD/MD/HD/HHD/VHD	DC	24V	
EFB1312LE/ME/HE/HHE/VHE/SHE	DC	12V	
EFB1324LE/ME/HE/HHE/VHE/SHE	DC	24V	
EFB1348LE/ME/HE/HHE/VHE	DC	48V	
EFB0912LF/MF/HF/HHF/VHF/SHF	DC	12V	
EFB0924LF/MF/HF/HHF/VHF/SHF	DC	24V	
AFB1512L/M/H	DC	12V	
AFB1712L/M/H	DC	12V	
FFB1312VHE/SHE/EHE	DC	12V	
AUB0505LB/MB/HB	DC	5V	
AUB0512LB/MB/HB/HHB	DÇ	12V	
AUB0524LB/MB/HB/HHB	DÇ	24V	
EFB1248L/M/H/HH/VH/SH	DC	48V	
KFB03205LA/MA/HA/LP/MP/HP	DC	5V	
EFB0812LF/MF/HF/HHF/VHF/SHF/EH	łF	DC	12V
EFB0824LF/MF/HF/HHF/VHF/SHF/EH	łF	DC	24V
HFB0605LB/LD/MB/MD/HB	DC	5V	
HFB0612LB/LD/MB/MD/HB/HD/HHB	/HHI	D DC	12V
HFB0624LB/LD/MB/MD/HB/HD	DC	24V	
AFB1212L/M/H/HH/VH/SH	DC	12V	
AFB1224L/M/H/HH/VH/SH	DC	24V	
AUB0712L/M/H/HH/VH	DC	12V	
AUB0724L/M/H/HH/VH	DC	24V	
EFC0912AE/BE	DC	12V	
AFB0505LD/MD/HD	DC	5V	
AFB0512LD/MD/HD/HHD/VHD	DC	12V	
AFB0524LD/MD/HD/HHD/VHD	DC	24V	
FUB0412MN/HN/HHN/VHN	DC	12V	
FUB0424MN/HN/HHN/VHN	DC	24V	

Fortsetzung siehe Blatt 3 /