

DC Input MDS Series, MD Series



[UL (For MDS625H, MDS825H, MDS1238, MDS1751H, MDS1751FH)
UL (For MDS925H, MDS1238H) UL (For MDS1451)]

● For detailed information about regulations and standards, please see the Oriental Motor website.



The **MDS/MD** Series DC axial flow fans are compact axial flow fans offering good overall performance and value. Available in 8 frame sizes from □42 mm (□1.65 in.) up to φ172 mm (φ6.77 in.) and depending on frame size are available with a stall alarm as a standard fan type. Also different speed types are available, from Low Speed, Middle Speed to Standard Speed.

Lead wire or connector type products are also available for easy and simple installation.



See Full Product Details Online
www.orientalmotor.com

- Manual
- Specifications
- Dimensions
- CAD
- Characteristics
- Connection and Operation

Features

Product Line

A product line of 9 fan sizes are available, with frame sizes from □42 mm (□1.65 in.) to φ172 mm (φ6.77 in.).

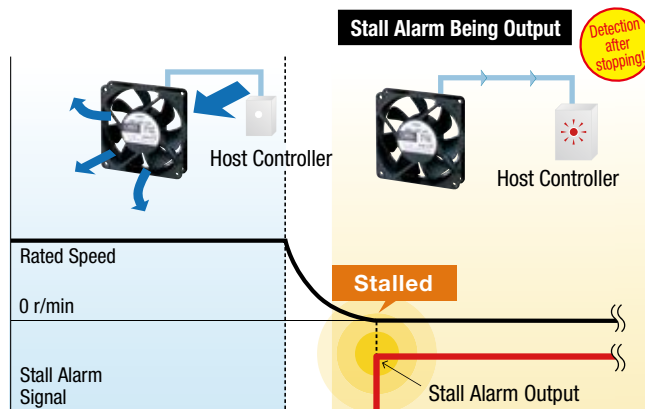
		MDS410	MDS510	MDS625/ MD625	MDS825/ MD825	MDS925/ MD925	MDS1225/ MD1225	MDS1238	MDS1451	MDS1751*
Frame Size	[mm (in.)]	□42 (□1.65)	□52 (□2.05)	□60/62 (□2.36/2.44)	□80 (□3.15)	□92 (□3.62)	□119 (□4.69)	□119/120 (□4.69/4.72)	□140 (□5.51)	φ172 (φ6.77)
Frame Thickness	[mm (in.)]	10 (0.39)	10 (0.39)	25/25.4 (0.99/1.00)	25/25.4 (0.99/1.00)	25.2/25.4 (0.99/1.00)	25.4 (1.00)	38 (1.50)	51 (2.01)	51 (2.01)
Speed Type	High Speed	—	—	●	●	●	—	●	—	●
	Standard Speed	●	●	●	●	●	●	●	●	●
	Middle Speed	●	●	●	●	●	—	—	—	—
	Low Speed	—	—	—	●	●	—	—	—	—
Alarm Type		Stall Alarm	Stall Alarm	Stall Alarm	Stall Alarm	Stall Alarm	—	Stall Alarm	Stall Alarm	—
Power Supply Voltage	5 VDC	●	●	—	—	—	—	—	—	—
	12 VDC	●	●	●	●	●	●	—	—	—
	24 VDC	●	●	●	●	●	●	●	●	●
	48 VDC	—	—	—	—	—	—	—	●	—

*Side cut type is also available.

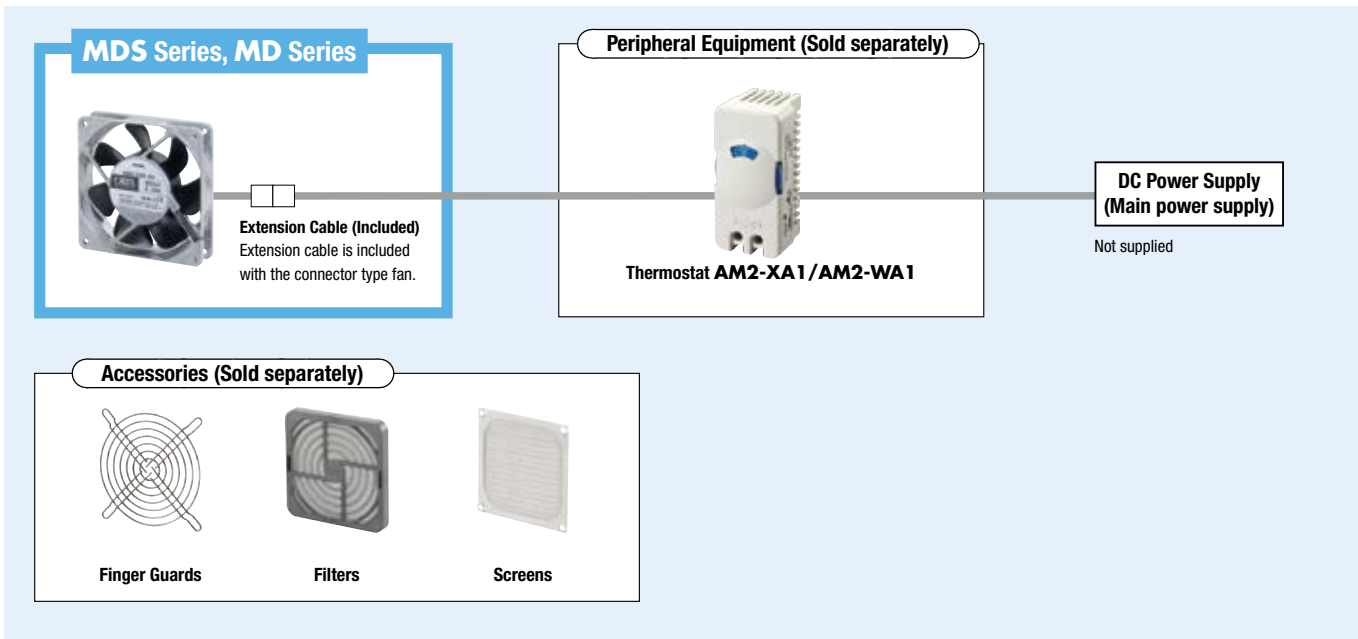
Fans with Stall Alarm

Outputs an alarm when the cooling fan stops.

This allows for quick detection of a problem and replacement if needed.



System Configuration



Product Number

Fan Only

MDS 17 51 F H - 24

① ② ③ ④ ⑤ ⑥

MD 9 25 A - 12 L H

① ② ③ ⑤ ⑥ ⑦ ⑧

Fan Kit

T - MDS1751FH-24 G

① ② ③

①	Series	MDS: MDS Series MD: MD Series
②	Frame Size	4: 42 mm (1.65 in.), 5: 52mm (2.05 in.), 6: 60 mm (2.36 in.) or 62 mm (2.44 in.), 8: 80 mm (3.15 in.), 9: 92 mm (3.62 in.), 12: 119 mm (4.69 in.) or 120 mm (4.72 in.), 14: 140 mm (5.51 in.), 17: φ172 mm (φ6.77 in.)
③	Frame Thickness	10: 10 mm (0.39 in.), 25: 25 mm (0.99 in.), 25.2 mm (0.99 in.) or 25.4 mm (1.00 in.), 38: 38 mm (1.50 in.), 51: 51 mm (2.01 in.)
④	Frame Shape	F: Side-cut
⑤	Speed Type	H: High Speed Blank, A, B: Standard Speed AM, BM: Middle Speed AL, BL: Low Speed
⑥	Power Supply Voltage	5: 5 VDC, 12: 12 VDC, 24: 24 VDC, 48: 48 VDC
⑦	Additional Function	L: Stall Alarm, Electronic Alarm Type Blank: No additional functions
⑧	Connection Type	Blank: Lead Wire Type H: Connector Type

①	Fan Kit Order Code
②	Fan Product Name
③	G, -G: With finger guard and installation screws

Overview

Axial Flow Fans

AC Input Low-Power Consumption
EMU

AC Input Compact Size
MU

AC Input Large Size, Large Air Flow
MRS

AC Input Long-Life
MRE

DC Input MDS
MD

DC Input Alarm
MDA

DC Input Variable Flow
MDV

DC Input Long-Life
MDE

DC Input Splash proof
MDP

Centrifugal Blowers

AC Input
MB
DC Input
MBD

Cross Flow Fans

AC Input
MF
DC Input
MFD

Enclosure Fan Modules

Thermostat

Product Line

● **Lead Wire Type**

Size	Speed Type	Additional Function	Voltage VDC	Fan Only		Fan Kit	
				Product Name	List Price	Product Name	List Price
□42 mm – 10 mm Thick [□1.65 in. – 0.39 in. Thick]	Standard Speed	–	12	MDS410-12	\$23.00	T-MDS410-12-G	\$26.00
		Stall Alarm, Electronic Alarm Type	12	MDS410-12L	\$26.00	T-MDS410-12L-G	\$29.00
		–	24	MDS410-24	\$23.00	T-MDS410-24-G	\$26.00
		Stall Alarm, Electronic Alarm Type	24	MDS410-24L	\$26.00	T-MDS410-24L-G	\$29.00
	Middle Speed	–	5	MDS410M-5	\$23.00	T-MDS410M-5-G	\$26.00
	□52 mm – 10 mm Thick [□2.05 in. – 0.39 in. Thick]	Standard Speed	–	12	MDS510-12	\$24.00	T-MDS510-12-G
Stall Alarm, Electronic Alarm Type			12	MDS510-12L	\$27.00	T-MDS510-12L-G	\$31.00
–			24	MDS510-24	\$24.00	T-MDS510-24-G	\$28.00
Stall Alarm, Electronic Alarm Type			24	MDS510-24L	\$27.00	T-MDS510-24L-G	\$31.00
Middle Speed		–	5	MDS510M-5	\$24.00	T-MDS510M-5-G	\$28.00
		–	12	MDS510M-12	\$24.00	T-MDS510M-12-G	\$28.00
		–	24	MDS510M-24	\$24.00	T-MDS510M-24-G	\$28.00
		–	24	MDS510M-24L	\$24.00	T-MDS510M-24L-G	\$28.00
□60 (62) mm – 25 (25.4) mm Thick [□2.36 (2.44) in. – 0.99 (1.00) in. Thick]	High Speed	–	24	MDS625H-24	\$42.00	T-MDS625H-24-G	\$46.00
	Standard Speed	–	12	MD625B-12	\$25.00	T-MD625B-12-G	\$29.00
		Stall Alarm, Electronic Alarm Type	12	MD625B-12L	\$28.00	T-MD625B-12L-G	\$32.00
		–	24	MD625B-24	\$25.00	T-MD625B-24-G	\$29.00
		Stall Alarm, Electronic Alarm Type	24	MD625B-24L	\$28.00	T-MD625B-24L-G	\$32.00
	Middle Speed	–	12	MD625BM-12	\$25.00	T-MD625BM-12-G	\$29.00
		–	24	MD625BM-24	\$25.00	T-MD625BM-24-G	\$29.00
	□80 mm – 25 (25.4) mm Thick [□3.15 in. – 0.99 (1.00) in. Thick]	High Speed	–	24	MDS825H-24	\$42.00	T-MDS825H-24-G
Standard Speed		–	12	MD825B-12	\$25.00	T-MD825B-12-G	\$30.00
		Stall Alarm, Electronic Alarm Type	12	MD825B-12L	\$28.00	T-MD825B-12L-G	\$33.00
		–	24	MD825B-24	\$25.00	T-MD825B-24-G	\$30.00
		Stall Alarm, Electronic Alarm Type	24	MD825B-24L	\$28.00	T-MD825B-24L-G	\$33.00
Middle Speed		–	12	MD825BM-12	\$25.00	T-MD825BM-12-G	\$30.00
		–	24	MD825BM-24	\$25.00	T-MD825BM-24-G	\$30.00
Low Speed		–	12	MD825BL-12	\$25.00	T-MD825BL-12-G	\$30.00
□92 mm – 25.2 (25.4) mm Thick [□3.62 in. – 0.99 (1.00) in. Thick]	High Speed	–	24	MDS925H-24	\$47.00	T-MDS925H-24-G	\$52.00
	Standard Speed	–	12	MD925A-12	\$27.00	T-MD925A-12-G	\$32.00
		Stall Alarm, Electronic Alarm Type	12	MD925A-12L	\$30.00	T-MD925A-12L-G	\$35.00
		–	24	MD925A-24	\$27.00	T-MD925A-24-G	\$32.00
		Stall Alarm, Electronic Alarm Type	24	MD925A-24L	\$30.00	T-MD925A-24L-G	\$35.00
	Middle Speed	–	12	MD925AM-12	\$27.00	T-MD925AM-12-G	\$32.00
		–	24	MD925AM-24	\$27.00	T-MD925AM-24-G	\$32.00
	Low Speed	–	12	MD925AL-12	\$27.00	T-MD925AL-12-G	\$32.00
–		24	MD925AL-24	\$27.00	T-MD925AL-24-G	\$32.00	
□119 mm – 25.4 mm Thick [□4.69 in. – 1.00 in. Thick]	Standard Speed	–	12	MDS1225-12	\$42.00	T-MDS1225-12-G	\$48.00
		–	24	MDS1225-24	\$42.00	T-MDS1225-24-G	\$48.00
		–	12	MD1225-12	\$34.00	T-MD1225-12-G	\$40.00
		–	24	MD1225-24	\$34.00	T-MD1225-24-G	\$40.00
□119 (120) mm – 38 mm Thick [□4.69 (4.72) in. – 1.50 in. Thick]	High Speed	–	24	MDS1238H-24	\$96.00	T-MDS1238H-24-G	\$102.00
	Standard Speed	–	24	MDS1238-24	\$65.00	T-MDS1238-24-G	\$71.00
		Stall Alarm, Electronic Alarm Type	24	MDS1238-24L	\$65.00	T-MDS1238-24L-G	\$71.00
□140 mm – 51 mm Thick [□5.51 in. – 2.01 in. Thick]	Standard Speed	–	24	MDS1451-24	\$72.00	T-MDS1451-24-G	\$79.00
		Stall Alarm, Electronic Alarm Type	24	MDS1451-24L	\$75.00	T-MDS1451-24L-G	\$82.00
		–	48	MDS1451-48	\$72.00	T-MDS1451-48-G	\$79.00
		Stall Alarm, Electronic Alarm Type	48	MDS1451-48L	\$75.00	T-MDS1451-48L-G	\$82.00
φ172 mm – 51 mm Thick (φ6.77 in. – 2.01 in. Thick)	High Speed	–	24	MDS1751H-24	\$135.00	T-MDS1751H-24-G	\$149.00
		–	24	MDS1751FH-24	\$135.00	T-MDS1751FH-24G	\$153.00
	Standard Speed	–	24	MDS1751-24	\$89.00	T-MDS1751-24-G	\$103.00

● Connector Type

Size	Speed Type	Additional Function	Voltage VDC	Fan Only		Fan Kit	
				Product Name	List Price	Product Name	List Price
□42 mm – 10 mm Thick (□1.65 in. – 0.39 in. Thick)	Standard Speed	–	12	MDS410-12H	\$29.00	T-MDS410-12HG	\$32.00
		Stall Alarm, Electronic Alarm Type	12	MDS410-12LH	\$33.00	T-MDS410-12LHG	\$36.00
		–	24	MDS410-24H	\$29.00	T-MDS410-24HG	\$32.00
		Stall Alarm, Electronic Alarm Type	24	MDS410-24LH	\$33.00	T-MDS410-24LHG	\$36.00
□52 mm – 10 mm Thick (□2.05 in. – 0.39 in. Thick)	Standard Speed	–	5	MDS410M-5H	\$29.00	T-MDS410M-5HG	\$32.00
		–	12	MDS510-12H	\$30.00	T-MDS510-12HG	\$34.00
		Stall Alarm, Electronic Alarm Type	12	MDS510-12LH	\$34.00	T-MDS510-12LHG	\$38.00
		–	24	MDS510-24H	\$30.00	T-MDS510-24HG	\$34.00
□62 mm – 25.4 mm Thick (□2.44 in. – 1.00 in. Thick)	Standard Speed	Stall Alarm, Electronic Alarm Type	24	MDS510-24LH	\$34.00	T-MDS510-24LHG	\$38.00
		–	5	MDS510M-5H	\$30.00	T-MDS510M-5HG	\$34.00
		–	12	MD625B-12H	\$31.00	T-MD625B-12HG	\$35.00
		Stall Alarm, Electronic Alarm Type	12	MD625B-12LH	\$35.00	T-MD625B-12LHG	\$39.00
□80 mm – 25.4 mm Thick (□3.15 in. – 1.00 in. Thick)	Standard Speed	–	24	MD625B-24H	\$31.00	T-MD625B-24HG	\$35.00
		Stall Alarm, Electronic Alarm Type	24	MD625B-24LH	\$35.00	T-MD625B-24LHG	\$39.00
		–	12	MD825B-12H	\$31.00	T-MD825B-12HG	\$36.00
		Stall Alarm, Electronic Alarm Type	12	MD825B-12LH	\$35.00	T-MD825B-12LHG	\$40.00
□92 mm – 25.4 mm Thick (□3.62 in. – 1.00 in. Thick)	Standard Speed	–	24	MD825B-24H	\$31.00	T-MD825B-24HG	\$36.00
		Stall Alarm, Electronic Alarm Type	24	MD825B-24LH	\$35.00	T-MD825B-24LHG	\$40.00
		–	12	MD925A-12H	\$33.00	T-MD925A-12HG	\$38.00
		Stall Alarm, Electronic Alarm Type	12	MD925A-12LH	\$37.00	T-MD925A-12LHG	\$42.00
□119 mm – 25.4 mm Thick (□4.69 in. – 1.00 in. Thick)	Standard Speed	–	24	MD925A-24H	\$33.00	T-MD925A-24HG	\$38.00
		Stall Alarm, Electronic Alarm Type	24	MD925A-24LH	\$37.00	T-MD925A-24LHG	\$42.00
		–	12	MDS1225-12H	\$48.00	T-MDS1225-12HG	\$54.00
		–	24	MDS1225-24H	\$48.00	T-MDS1225-24HG	\$54.00
□140 mm – 51 mm Thick (□5.51 in. – 2.01 in. Thick)	Standard Speed	–	12	MD1225-12H	\$40.00	T-MD1225-12HG	\$46.00
		–	24	MD1225-24H	\$40.00	T-MD1225-24HG	\$46.00
		–	24	MDS1451-24H	\$78.00	T-MDS1451-24HG	\$85.00
		Stall Alarm, Electronic Alarm Type	24	MDS1451-24LH	\$82.00	T-MDS1451-24LHG	\$89.00
φ172 mm – 51 mm Thick (φ6.77 in. – 2.01 in. Thick)	Standard Speed	–	48	MDS1451-48H	\$78.00	T-MDS1451-48HG	\$85.00
		Stall Alarm, Electronic Alarm Type	48	MDS1451-48LH	\$82.00	T-MDS1451-48LHG	\$89.00
φ172 mm – 51 mm Thick (φ6.77 in. – 2.01 in. Thick)	Standard Speed	–	24	MDS1751-24H	\$95.00	T-MDS1751-24HG	\$109.00
		–	24				

Overview

Axial
Flow
FansAC Input
Low-Power
Consumption
EMUAC Input
Compact Size
MUAC Input
Large Size,
Large Air Flow
MRSAC Input
Long-Life
MREDC Input
MDS
MDDC Input
Alarm
MDADC Input
Variable Flow
MDVDC Input
Long-Life
MDEDC Input
Splash proof
MDPCentrifugal
BlowersAC Input
MB
DC Input
MBDCross
Flow
FansAC Input
MF
DC Input
MFDEnclosure
Fan Modules

Thermostat

For details (specifications, characteristics, dimensions and more) on these products, please either refer to our website or contact technical support or your nearest Oriental Motor sales office.

www.orientalmotor.com

