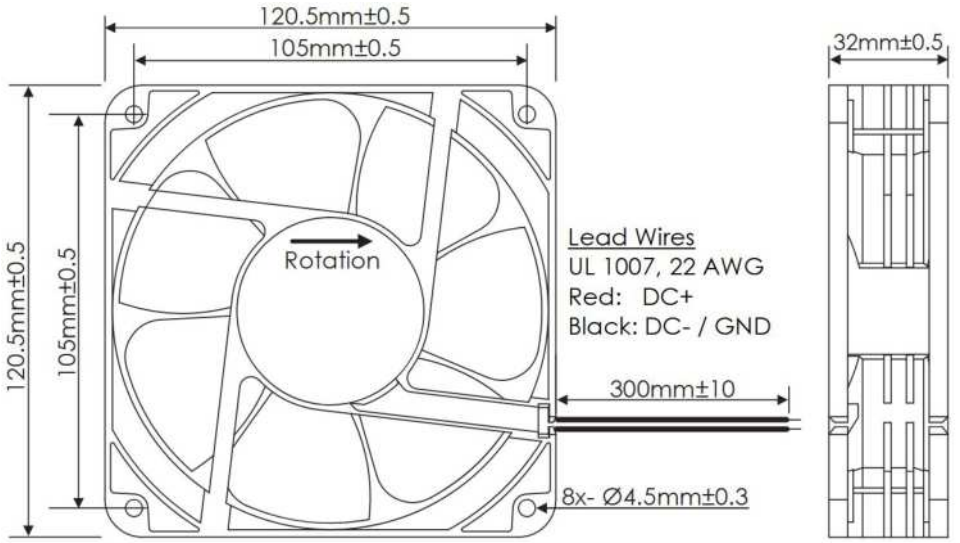
OD1232 Series

DC Fans - 12, 24, 48V
120.5mm x 120.5mm x 32mm
(4.75” x 4.75” x 1.26”)





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	2x Wire Leads, 22 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Ball Bearings
Dielectric Strength	500VDC/min, <3mA
Insulation Resistance	≥10MΩ @ 500 VDC

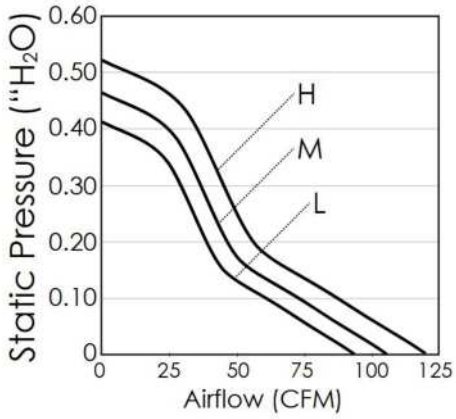
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

Life Expectancy
70,000 Hours (L10 at 40°C)

Available Options
PWM Speed Control
Thermal Speed Control
Tachometer Output
Alarm Output
IP Ratings
5V Versions

Weight: 0.59 lbs



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD1232-12HB	12	9 ~ 13.8	10.1	0.84	3700	120	45.4	0.52
OD1232-12MB	12	9 ~ 13.8	8.5	0.70	3250	107	40.1	0.46
OD1232-12LB	12	9 ~ 13.8	6.0	0.50	2850	93	34.8	0.41
OD1232-24HB	24	16 ~ 26	10.1	0.42	3700	120	45.4	0.52
OD1232-24MB	24	16 ~ 26	8.5	0.35	3250	107	40.1	0.46
OD1232-24LB	24	16 ~ 26	7.2	0.30	2850	93	34.8	0.41
OD1232-48HB	48	30 ~ 52	10.1	0.21	3700	120	45.4	0.52
OD1232-48MB	48	30 ~ 52	8.6	0.18	3250	107	40.1	0.46
OD1232-48LB	48	30 ~ 52	6.0	0.12	2850	93	34.8	0.41

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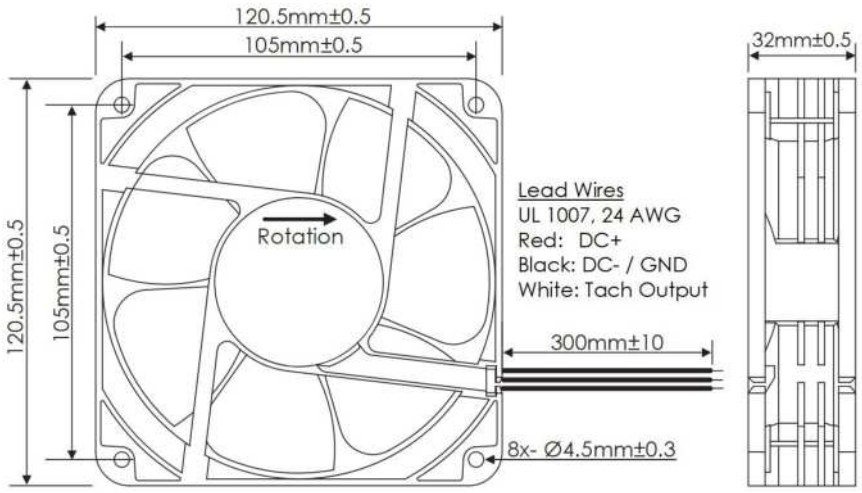
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OD1232 Series with Tachometer

DC Fans - 12, 24, 48V
120.5mm x 120.5mm x 32mm
(4.75” x 4.75” x 1.26”)





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Wire Leads, 24 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Ball Bearings
Dielectric Strength	500VDC/min, <3mA
Insulation Resistance	≥10MΩ @ 500 VDC

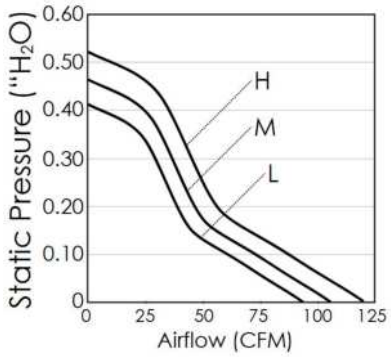
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

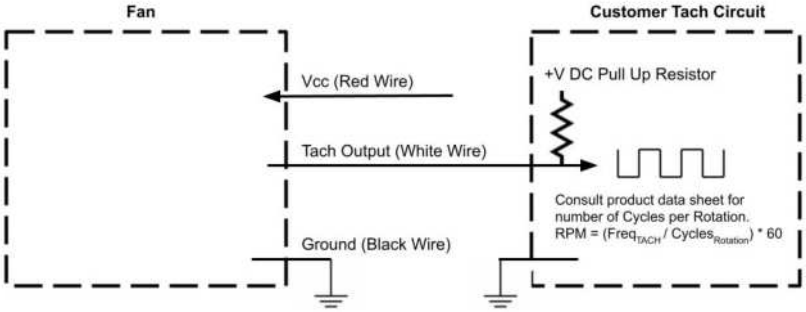
Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
Open Collector Tach Output

Weight: 0.59 lbs



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD1232-12HB01A	12	9 ~ 13.8	10.1	0.84	3700	120	45.4	0.52
OD1232-12MB01A	12	9 ~ 13.8	8.5	0.70	3250	107	40.1	0.46
OD1232-12LB01A	12	9 ~ 13.8	6.0	0.50	2850	93	34.8	0.41
OD1232-24HB01A	24	16 ~ 26	10.1	0.42	3700	120	45.4	0.52
OD1232-24MB01A	24	16 ~ 26	8.5	0.35	3250	107	40.1	0.46
OD1232-24LB01A	24	16 ~ 26	7.2	0.30	2850	93	34.8	0.41
OD1232-48HB01A	48	30 ~ 52	10.1	0.21	3700	120	45.4	0.52
OD1232-48MB01A	48	30 ~ 52	8.6	0.18	3250	107	40.1	0.46
OD1232-48LB01A	48	30 ~ 52	6.0	0.12	2850	93	34.8	0.41



Tach Max Pullup Voltage: Vcc of fan
Tach Max Sink Current: 5mA
Tach Cycles per Rotation: 2

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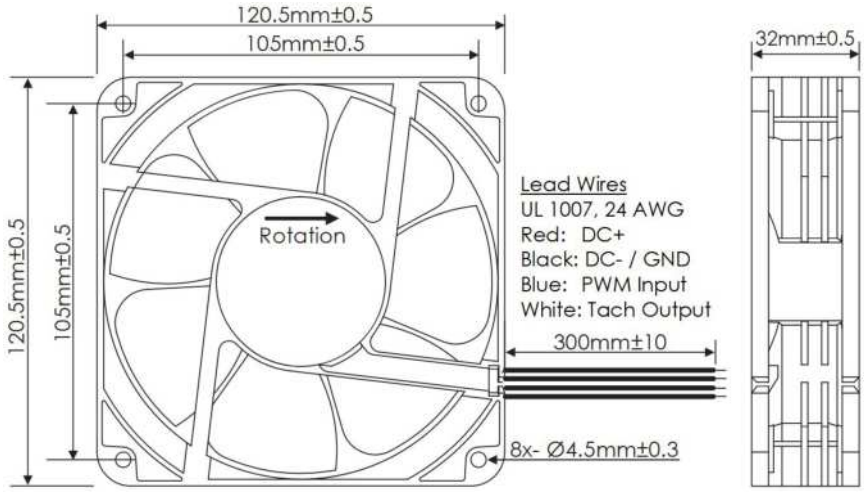
Orion Fans

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OD1232 Series with Tachometer and PWM

DC Fans - 12, 24, 48V
120.5mm x 120.5mm x 32mm
(4.75” x 4.75” x 1.26”)





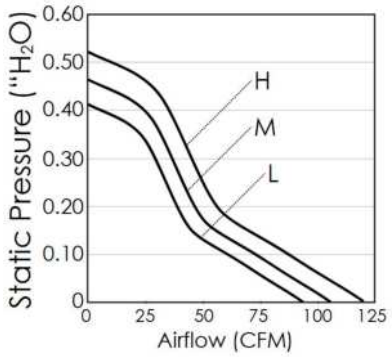
Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	4x Wire Leads, 24 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Ball Bearings
Dielectric Strength	500VDC/min, <3mA
Insulation Resistance	≥10MΩ @ 500 VDC

Operating Temperature
-20°C ~ +65°C

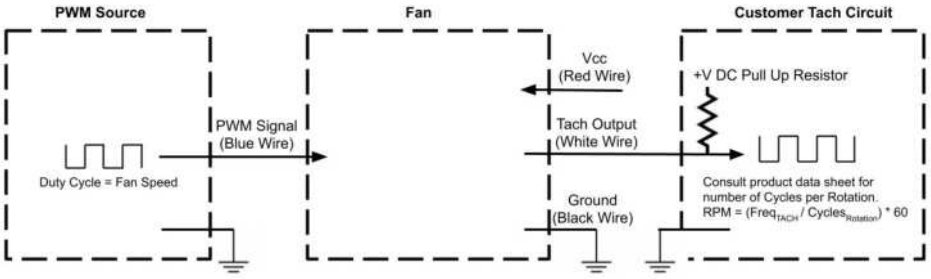
Storage Temperature
-20°C ~ +75°C

Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
Open Collector Tach Output
PWM Input
Weight: 0.59 lbs



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD1232-12HB10A	12	9 ~ 13.8	10.1	0.84	3700	120	45.4	0.52
OD1232-12MB10A	12	9 ~ 13.8	8.5	0.70	3250	107	40.1	0.46
OD1232-12LB10A	12	9 ~ 13.8	6.0	0.50	2850	93	34.8	0.41
OD1232-24HB10A	24	16 ~ 26	10.1	0.42	3700	120	45.4	0.52
OD1232-24MB10A	24	16 ~ 26	8.5	0.35	3250	107	40.1	0.46
OD1232-24LB10A	24	16 ~ 26	7.2	0.30	2850	93	34.8	0.41
OD1232-48HB10A	48	30 ~ 52	10.1	0.21	3700	120	45.4	0.52
OD1232-48MB10A	48	30 ~ 52	8.6	0.18	3250	107	40.1	0.46
OD1232-48LB10A	48	30 ~ 52	6.0	0.12	2850	93	34.8	0.41



PWM Max High Voltage:	5V
PWM Max Sink Current:	5mA
PWM Frequency Range:	10KHz-40KHz
PWM Typical Frequency:	25KHz
PWM Minimum Startup Duty Cycle:	30%
RPM at 0% Duty Cycle:	0 RPM

RPM will be full speed if PWM input is disconnected.
Fan will be stopped if PWM input is grounded.

Tach Max Pullup Voltage:	Vcc of fan
Tach Max Sink Current:	5mA
Tach Cycles per Rotation:	2

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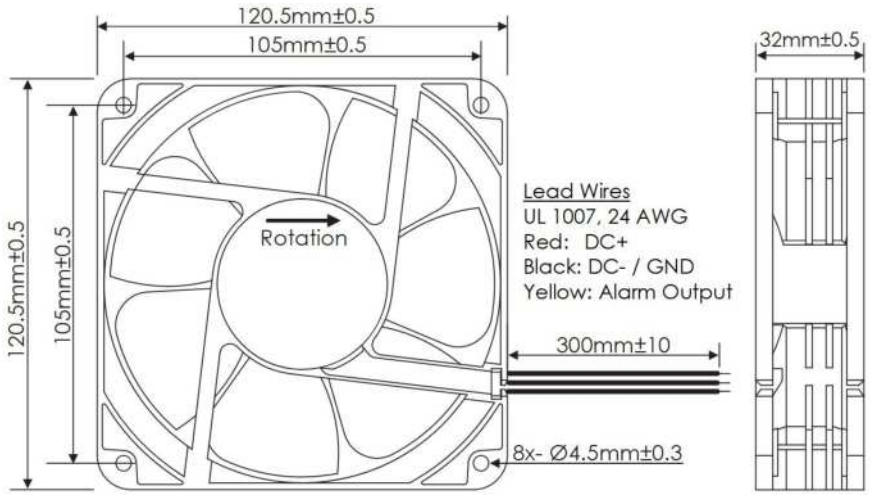
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OD1232 Series with Alarm

DC Fans - 12, 24, 48V
120.5mm x 120.5mm x 32mm
(4.75” x 4.75” x 1.26”)





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Wire Leads, 24 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Ball Bearings
Dielectric Strength	500VDC/min, <3mA
Insulation Resistance	≥10MΩ @ 500 VDC

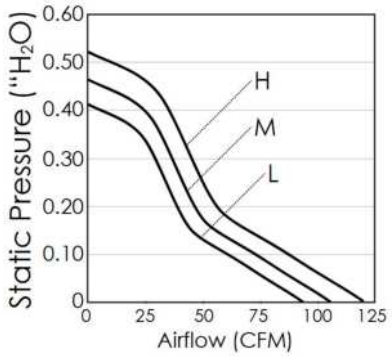
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

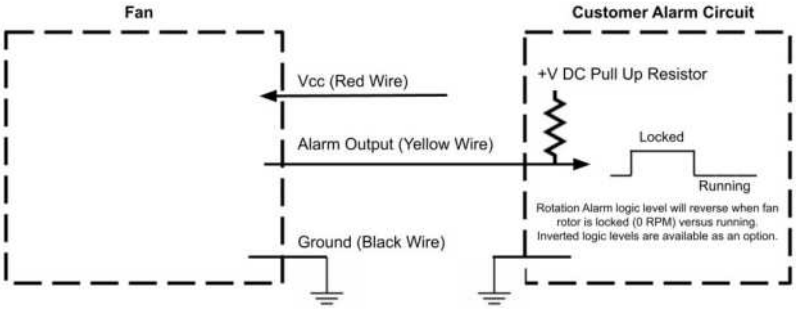
Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
Open Collector Alarm Output

Weight: 0.59 lbs



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD1232-12HB02A	12	9 ~ 13.8	10.1	0.84	3700	120	45.4	0.52
OD1232-12MB02A	12	9 ~ 13.8	8.5	0.70	3250	107	40.1	0.46
OD1232-12LB02A	12	9 ~ 13.8	6.0	0.50	2850	93	34.8	0.41
OD1232-24HB02A	24	16 ~ 26	10.1	0.42	3700	120	45.4	0.52
OD1232-24MB02A	24	16 ~ 26	8.5	0.35	3250	107	40.1	0.46
OD1232-24LB02A	24	16 ~ 26	7.2	0.30	2850	93	34.8	0.41
OD1232-48HB02A	48	30 ~ 52	10.1	0.21	3700	120	45.4	0.52
OD1232-48MB02A	48	30 ~ 52	8.6	0.18	3250	107	40.1	0.46
OD1232-48LB02A	48	30 ~ 52	6.0	0.12	2850	93	34.8	0.41



Alarm Max Pullup Voltage:	Vcc of fan
Alarm Max Sink Current:	5mA
Alarm Active State:	HIGH

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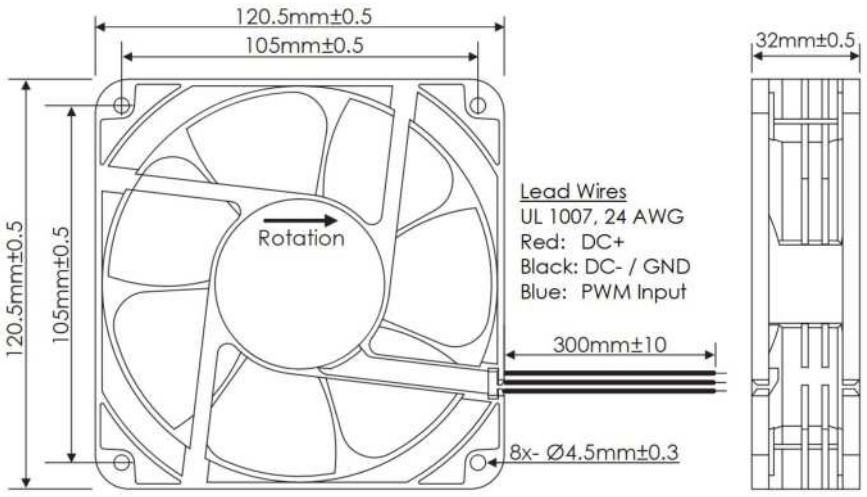
Orion Fans

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OD1232 Series with PWM

DC Fans - 12, 24, 48V
120.5mm x 120.5mm x 32mm
(4.75” x 4.75” x 1.26”)





Frame	PBT, UL94 V-0 Plastic
Impeller	PBT, UL94 V-0 Plastic
Connection	3x Wire Leads, 24 AWG
Motor	Brushless DC, Auto Cutoff, Auto Restart, Electronically Protected, Polarity Protected
Bearing System	Ball Bearings
Dielectric Strength	500VDC/min, <3mA
Insulation Resistance	≥10MΩ @ 500 VDC

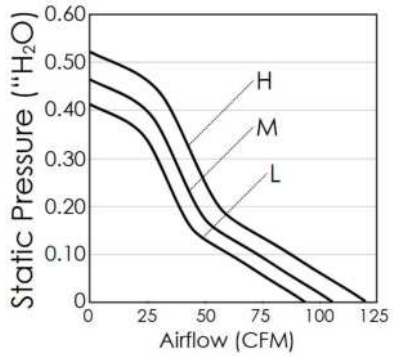
Operating Temperature
-20°C ~ +65°C

Storage Temperature
-20°C ~ +75°C

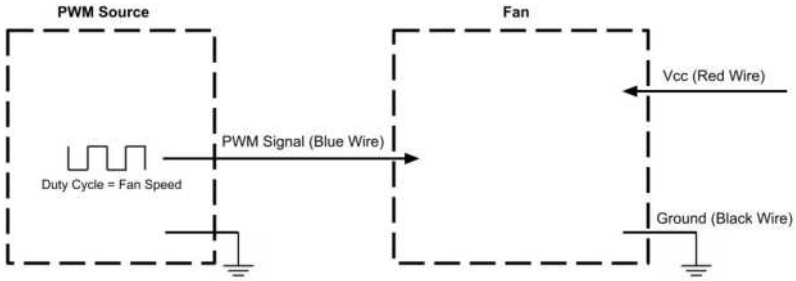
Life Expectancy
70,000 Hours (L10 at 40°C)

Installed Options
PWM Speed Control

Weight: 0.59 lbs



Part Number	Rated Voltage (Volts DC)	Voltage Range (Volts DC)	Input Power (Watts)	Rated Current (Amps)	Rated Speed (RPM)	Max Airflow (CFM)	Noise Level (dBA)	Max Static Pressure ("H_2O)
OD1232-12HB05	12	9 ~ 13.8	10.1	0.84	3700	120	45.4	0.52
OD1232-12MB05	12	9 ~ 13.8	8.5	0.70	3250	107	40.1	0.46
OD1232-12LB05	12	9 ~ 13.8	6.0	0.50	2850	93	34.8	0.41
OD1232-24HB05	24	16 ~ 26	10.1	0.42	3700	120	45.4	0.52
OD1232-24MB05	24	16 ~ 26	8.5	0.35	3250	107	40.1	0.46
OD1232-24LB05	24	16 ~ 26	7.2	0.30	2850	93	34.8	0.41
OD1232-48HB05	48	30 ~ 52	10.1	0.21	3700	120	45.4	0.52
OD1232-48MB05	48	30 ~ 52	8.6	0.18	3250	107	40.1	0.46
OD1232-48LB05	48	30 ~ 52	6.0	0.12	2850	93	34.8	0.41



PWM Max Input Voltage:	5.5V
PWM Frequency Range:	10KHz ~ 40KHz
PWM Typical Frequency:	25Khz
PWM Minimum Startup Duty Cycle:	30%
RPM at 0% Duty Cycle:	0 RPM

RPM will be full speed if PWM input is disconnected.
Fan will be stopped if PWM input is grounded.

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