

HIGH PERFORMANCE BRUSHLESS AXIAL MOTOR FANS 12 V & 24 V
Automotive, race car, truck, bus, van, tractor, construction equipment, special vehicles, motorbike applications



GENERAL CAB GROUP

General Cab Srl

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Proudly designe in Italy
www.generalcab.com



HIGH PERFORMANCE
FAN COOLING VENTILATION

High Performance Brushless Axial Fan 高性能无刷轴流风机 12 V - 24 V d.c.



General Cab Group | 吉诺凯博集团

General Cab Group is an Italian organization established in 1982, based in Asti, North-West of Italy. GC is a manufacturer of electric motor fans since the early 90's and especially during the last 10 years General Cab Group has more and more specialized its know-how in the development of high-tech solutions, both for axial and centrifugal ventilation.

Our technical competence consists of the development of solutions with axial fans and centrifugal blowers, including the design of innovative fan blades and impeller wheels, as well as of the DC 12V 24V 48V and high-voltage electric motors fitted onto the cooling fans and centrifugal blowers, Power range: 30W – 5KW.

Our develops and manufactures electric fans for any kind of application, merging the experience and the various different technical characteristics, required by each single application, such as durability of the product, protection-waterproofing, internal ventilation, guard and screening from radio interference.

Our production is mostly developed internally: in addition to the assembly and test of the electric motors and complete fan modules, General Cab Group is fully equipped and able to manufacture rotors and brush-holders (key components of any electric motor).



General Cab Group是一家成立于1982年的意大利企业，总部位于意大利西北部的阿斯蒂市。自上世纪90年代初以来，GC始终专注于电动风扇制造领域，尤其在过去十年间，其技术专长在轴流式与离心式通风系统的高科技解决方案开发方面不断深化。

我们技术实力涵盖轴流风扇与离心式鼓风机的解决方案开发，包括创新风扇叶片与叶轮的设计，及为冷却风扇和离心式鼓风机配套的直流12V/24V/48V和高压的电动机研发，功率范围30W-5KW。

我们为各类应用场景开发制造电动风扇，将产品经验与不同技术特性相结合，满足各应用场景对产品耐久性、防水性能、内部通风、防辐射干扰等要求。

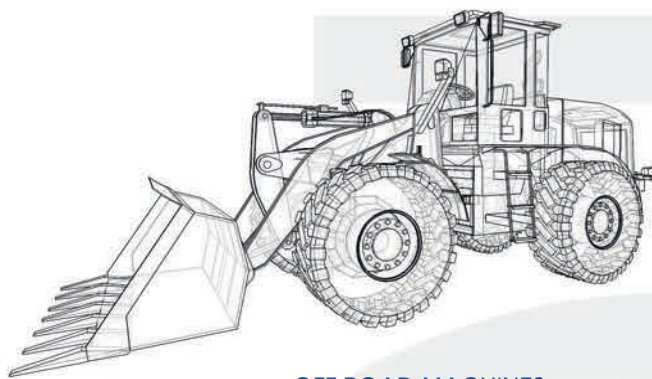
我们的生产流程主要采用内部化生产模式：除电动机及完整风扇模块的组装与测试外，集团还具备完整的转子与电刷座（电动机关键部件）制造能力。

Applications| 应用领域

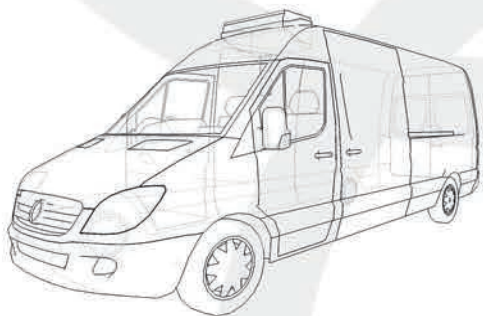
AIR CONDITIONING SYSTEM AND HEAT EXCHANGERS VENTILATION | 车辆空调及通风散热系统

Air conditioning for buses, trucks, tractors and off road machines. Ventilation on livestock trailers, car radiator cooling, heat exchangers cooling.

应用于客车、卡车、拖拉机及重型车辆空调系统，也用于拖车的通风系统、汽车散热器冷却系统、热交换器冷却系统。



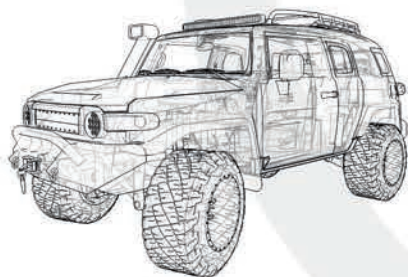
OFF ROAD MACHINES
非道路车辆



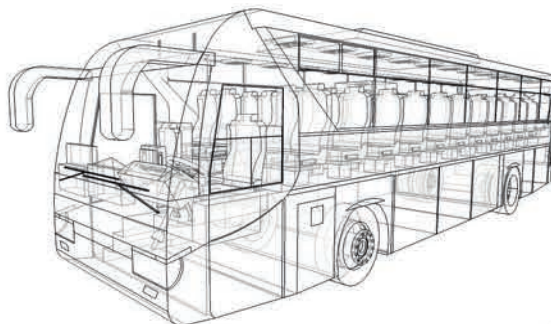
COMMERCIAL VEHICLES
商用车辆



TRUCKS
卡车



CARS / MILITARY VEHICLE
轿车/军用车辆

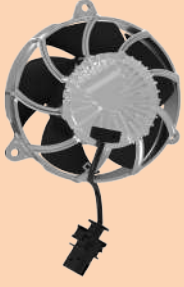
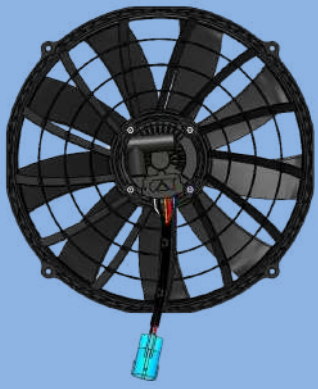


BUSES
客车

>> AXIAL FAN FAMILY|轴流风机家族

Fan Dia. 扇叶直径	Shroud & Fan 框架和扇叶	电压 Voltage	Motor Power 电机功率	Front View 前视图	Back View 后视图
305 mm	F82	12V	300W		
	31S	24V	800W		
	F82A	12V	300W		
	31S	24V	1200 W		
	F82A1	12V	300W		
	32S	24V	1200 W		
	F82B	12V	250W		
	32S	24V	1000 W		

>> AXIAL FAN FAMILY | 轴流风机家族

Fan Dia. 扇叶直径	Shroud & Fan 框架和扇叶	电压 Voltage	Motor Power 电机功率	Front View 前视图	Back View 后视图
130 mm	F75 13S	12V 24V	30W ~ 80W		
225 mm	F84 25S	12V 24V	160W ~ 260W		
255 mm	F83 28S	12V 24V	400W ~ 600W		
405 mm	F86 41S	12V 24V	250W ~ 1000 W		

>> Axial fans catalogue

轴流风机图册

Axial products summary | 轴流风机目录

12 V

fan diameter 扇叶直径	description 产品描述	motor 电机	shroud 框架	page 页码
130 mm 5"	F75-12BL8030-13S	M10	ALUMINUM	09
	F75-12BL8040-13S	M10	ALUMINUM	11
	F75-12BL8080-13S	M10	ALUMINUM	13
225 mm 9"	F84-12BL8260-25S	M30	PLASTIC	15
255 mm 10"	F83B-12BL8400-28S	M30	PLASTIC	17
	F83B-12BL8407-28S	M30	PLASTIC	19
	F83B-12BL8408-28S	M30	PLASTIC	21
305 mm 12"	F82-12BL8300-31S	M30	PLASTIC	23
	F82-12BL8303-31S	M30	PLASTIC	25
	F82-12BL8304-31S	M30	PLASTIC	27
	F82A-12BL8303-31S	M30	ALUMINUM	29
	F82A-12BL8304-31S	M30	ALUMINUM	31
	F82A-12BL8510-31S	M30	ALUMINUM	33
	F82A-12BL8511-31S	M30	ALUMINUM	35
	F82B-12BL8303-32S	M30	PLASTIC	37
	F82B-12BL8410-32S	M30	PLASTIC	39
	F82B-12BL8511-32S	M30	PLASTIC	41

>> Axial fans catalogue

轴流风机图册

Axial products summary | 轴流风机目录

24 V

fan diameter 扇叶直径	description 产品描述	motor 电机	shroud 框架	page 页码
130 mm 5"	F75-24BL8030-13S	M10	ALUMINUM	45
	F75-24BL8040-13S	M10	ALUMINUM	47
	F75-24BL8080-13S	M10	ALUMINUM	49
225 mm 9"	F84-24BL7160-25S	M50	PLASTIC	51
	F84-24BL7201-25S	M50	PLASTIC	53
	F84-24BL7203-25S	M50	PLASTIC	55
	F84-24BL7260-25S	M50	PLASTIC	57
255 mm 10"	F83B-24BL7356-28S	M50	PLASTIC	59
	F83B-24BL7358-28S	M50	PLASTIC	61
	F83B-24BL7406-28S	M50	PLASTIC	63
	F83B-24BL7418-28S	M50	PLASTIC	65
	F83B-24BL8618-28S	M30	PLASTIC	67
	F83B-24BL8818-28S	M30	PLASTIC	69
305 mm 12"	F82-24BL7302-31S	M50	PLASTIC	71
	F82-24BL7525-31S	M50	PLASTIC	73
	F82-24BL7527-31S	M50	PLASTIC	75
	F82-24BL8601-31S	M30	PLASTIC	77
	F82-24BL8861-31S	M30	PLASTIC	79
	F82A-24BL7302-31S	M50	ALUMINUM	81
	F82A-24BL8401-31S	M30	ALUMINUM	83
	F82A-24BL7525-31S	M50	ALUMINUM	85
	F82A-24BL7527-31S	M50	ALUMINUM	87
	F82A-24BL8861-31S	M30	ALUMINUM	89
	F82A-24BL8862-31S	M30	ALUMINUM	91
	F82A-24BL8864-31S	M30	ALUMINUM	93
	F82A-24BL8867-31S	M30	ALUMINUM	95
	F82A-24BL9860-31S	M30	ALUMINUM	97
	F82A-24BL9862-31S	M30	ALUMINUM	99

>> Axial fans catalogue

轴流风机图册

Axial products summary | 轴流风机目录

24 V

fan diameter 扇叶直径	description 产品描述	motor 电机	shroud 框架	page 页码
305 mm 12"	F82A1-24BL7525-32S	M50	ALUMINUM	101
	F82A1-24BL7527-32S	M50	ALUMINUM	103
	F82A1-24BL8861-32S	M30	ALUMINUM	105
	F82A1-24BL8862-32S	M30	ALUMINUM	107
	F82A1-24BL8864-32S	M30	ALUMINUM	109
	F82A1-24BL9862-32S	M30	ALUMINUM	111
	F82A1-24BL9962-32S	M30	ALUMINUM	113
	F82B-24BL7155-32S	M50	PLASTIC	115
	F82B-24BL7205-32S	M50	PLASTIC	117
	F82B-24BL7206-32S	M50	PLASTIC	119
	F82B-24BL7302-32S	M50	PLASTIC	121
	F82B-24BL7380-32S	M50	PLASTIC	123
	F82B-24BL7401-32S	M50	PLASTIC	125
	F82B-24BL7525-32S	M50	PLASTIC	127
	F82B-24BL7527-32S	M50	PLASTIC	129
	F82B-24BL8861-32S	M30	PLASTIC	131
	F82B-24BL8862-32S	M30	PLASTIC	133
	F82B-24BL8864-32S	M30	PLASTIC	135
	F82B-24BL9862-32S	M30	PLASTIC	137
	F82C-24BL8529-31S	M30	PLASTIC	139
405 mm 16"	F86-24BL7307-41S	M50	PLASTIC	141
	F86-24BL8627-41S	M30	PLASTIC	143
	F86-24BL8852-41S	M30	PLASTIC	145
	F86-24BL9852-41S	M30	PLASTIC	147



12V Brushless Axial Fan

F75-12BL8030-13S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø130mm	30W	M10

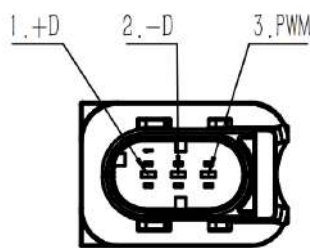
FEATURES | 主要参数

Max fan speed 最大转速	rpm	5500
Min fan speed 最小转速	rpm	1300
Sound pressure level at max speed 最大转速噪音	dBA	59
Weight 重量	kg	0.7
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	9
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PPS+30GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M5 or M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:AMP SERIES HDSCS GRUPP A

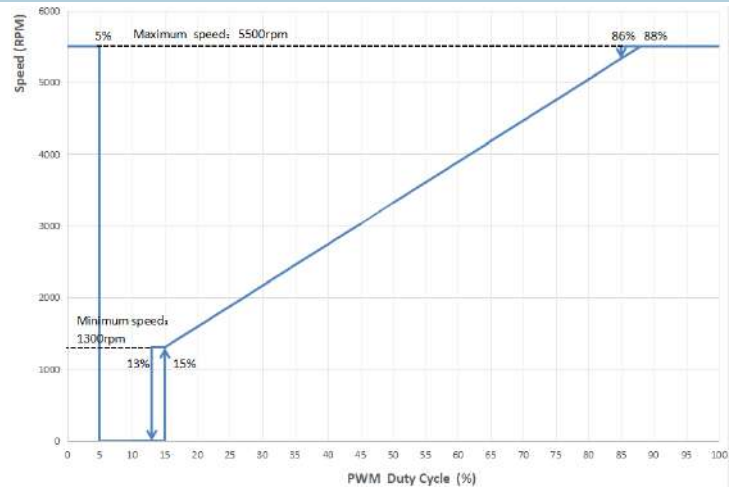
Part Number : 1-1670730-1

	Identification(*)	+D	-D	PWM/E	/
	Pin Number	1	2	3	/
	Wire Color	Red	Black	White	/
	Sealing p/n	963530-1	963530-1	963530-1	/
	Pin p/n	964269-2	964269-2	964269-2	/
	Section [mm²]	0.5	0.5	0.5	/
Note: Never handle the fan module via the cable harness					

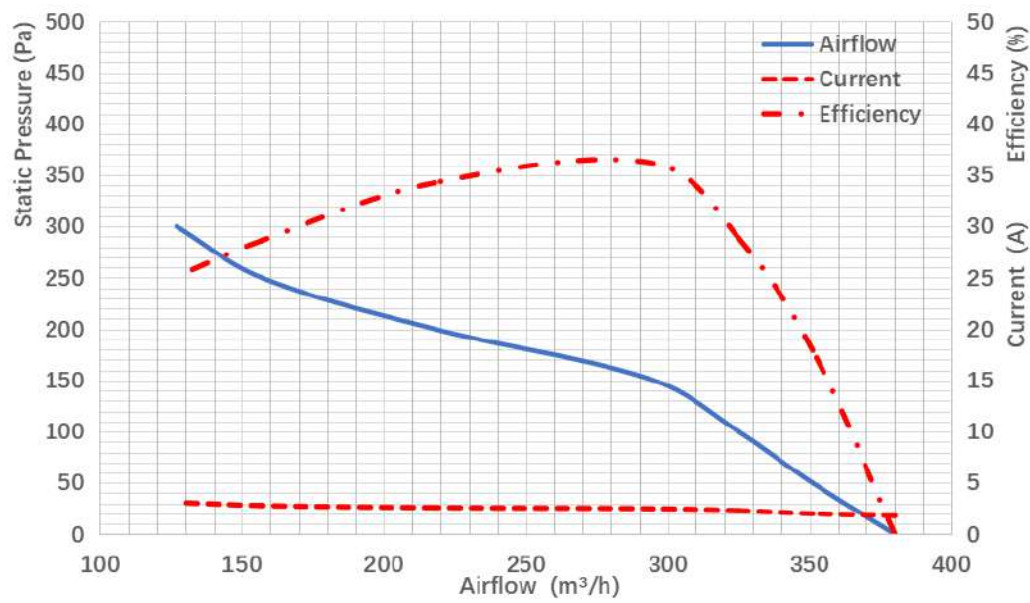
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

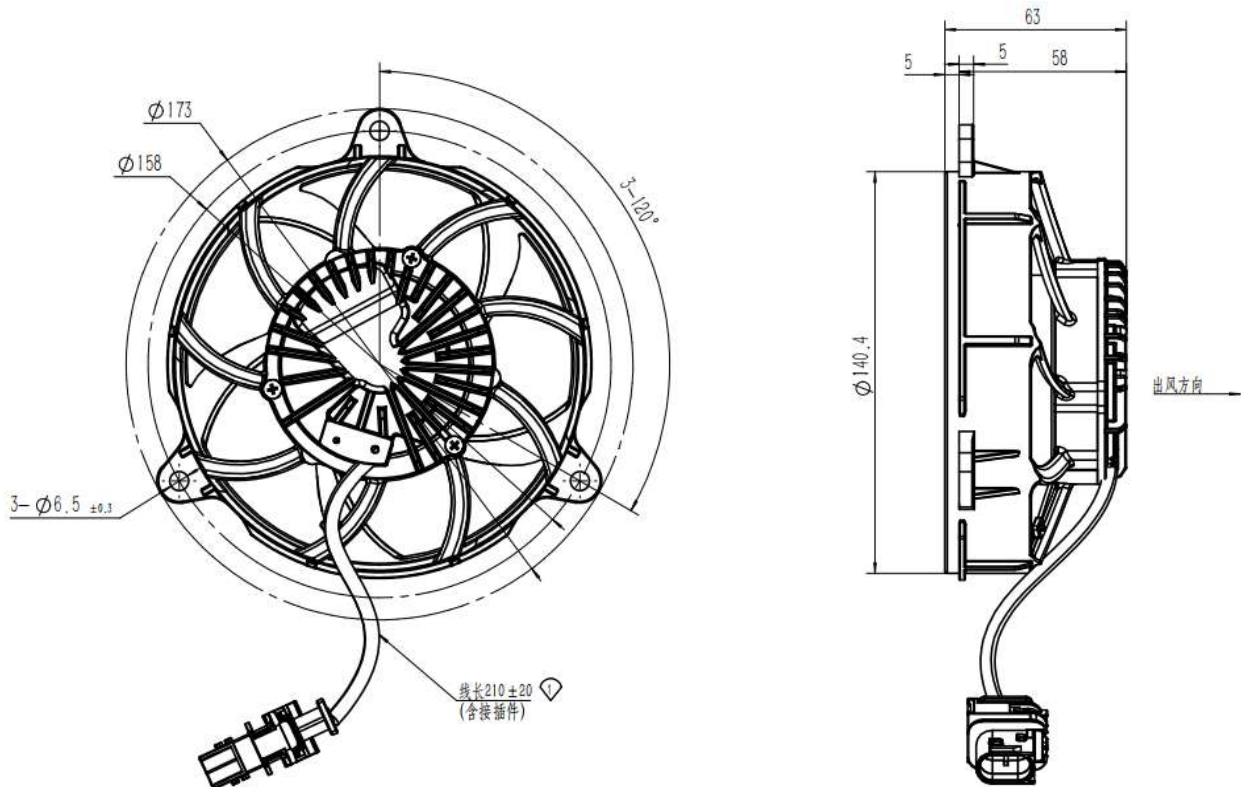
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F75-12BL8040-13S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø130mm	40W	M10

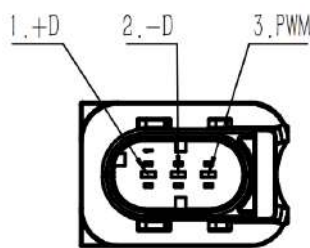
FEATURES | 主要参数

Max fan speed 最大转速	rpm	6200
Min fan speed 最小转速	rpm	1300
Sound pressure level at max speed 最大转速噪音	dBA	65
Weight 重量	kg	0.7
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	10
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PPS+30GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M5 or M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:AMP SERIES HDSCS GRUPP A

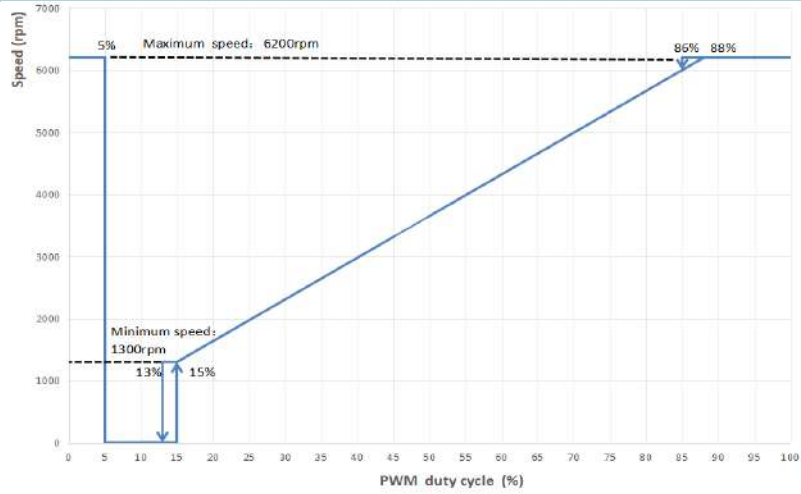
Part Number : 1-1670730-1

	Identification(*)	+D	-D	PWM/E	/
	Pin Number	1	2	3	/
	Wire Color	Red	Black	White	/
	Sealing p/n	963530-1	963530-1	963530-1	/
	Pin p/n	964269-2	964269-2	964269-2	/
	Section [mm²]	0.5	0.5	0.5	/
Note: Never handle the fan module via the cable harness					

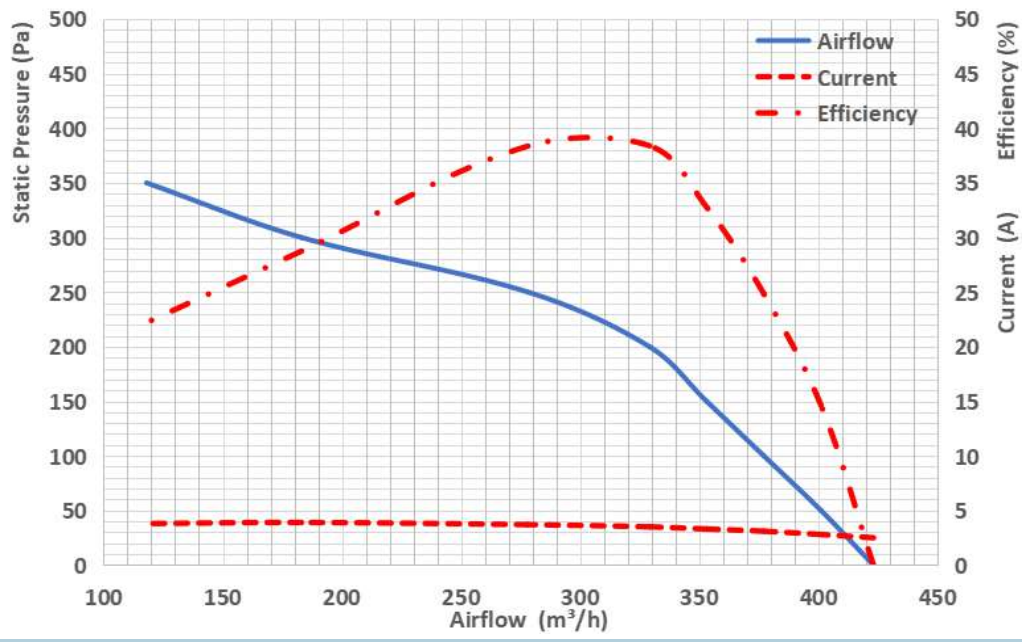
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

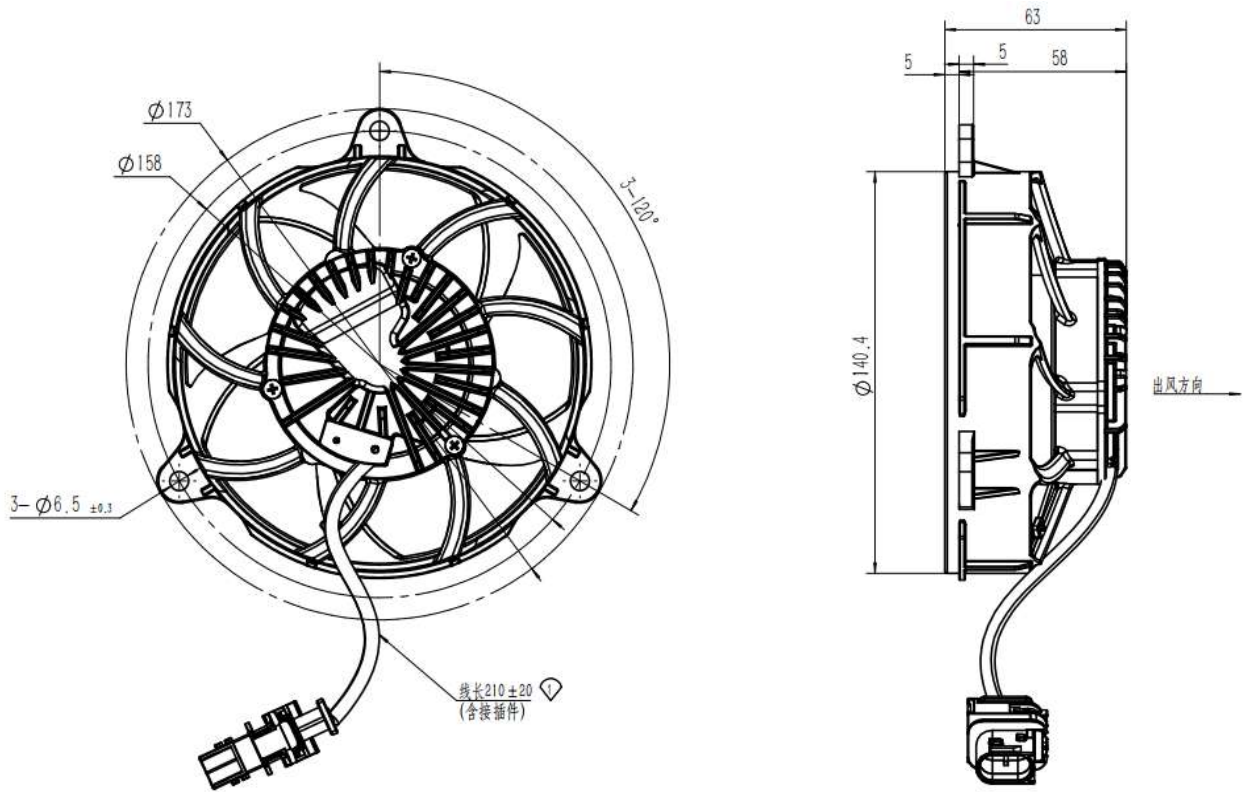
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F75-12BL8080-13S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø130mm	80W	M10

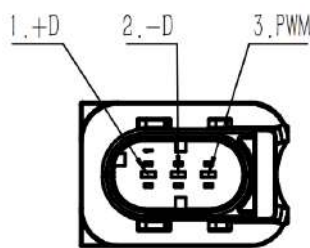
FEATURES | 主要参数

Max fan speed 最大转速	rpm	8000
Min fan speed 最小转速	rpm	1300
Sound pressure level at max speed 最大转速噪音	dBA	71
Weight 重量	kg	0.7
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+105
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PPS+30GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M5 or M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:AMP SERIES HDSCS GRUPP A

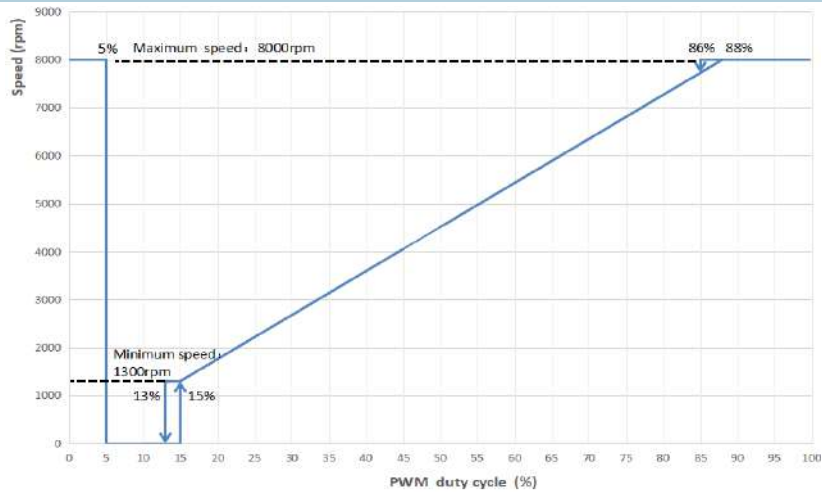
Part Number : 1-1670730-1

	Identification(*)	+D	-D	PWM/E	/
	Pin Number	1	2	3	/
	Wire Color	Red	Black	White	/
	Sealing p/n	963530-1	963530-1	963530-1	/
	Pin p/n	964269-2	964269-2	964269-2	/
	Section [mm²]	0.5	0.5	0.5	/
Note: Never handle the fan module via the cable harness					

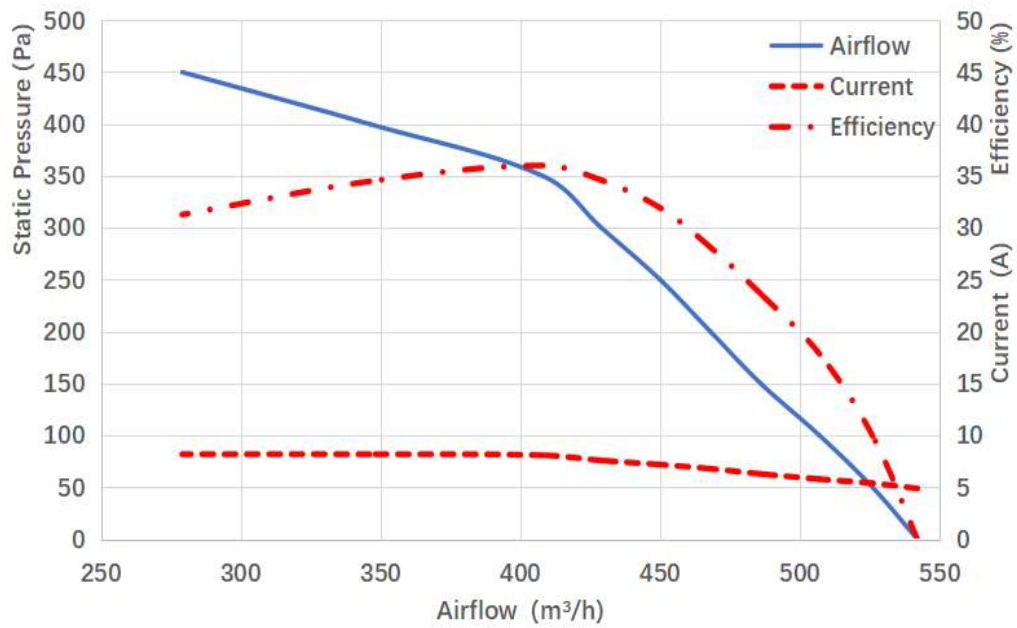
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

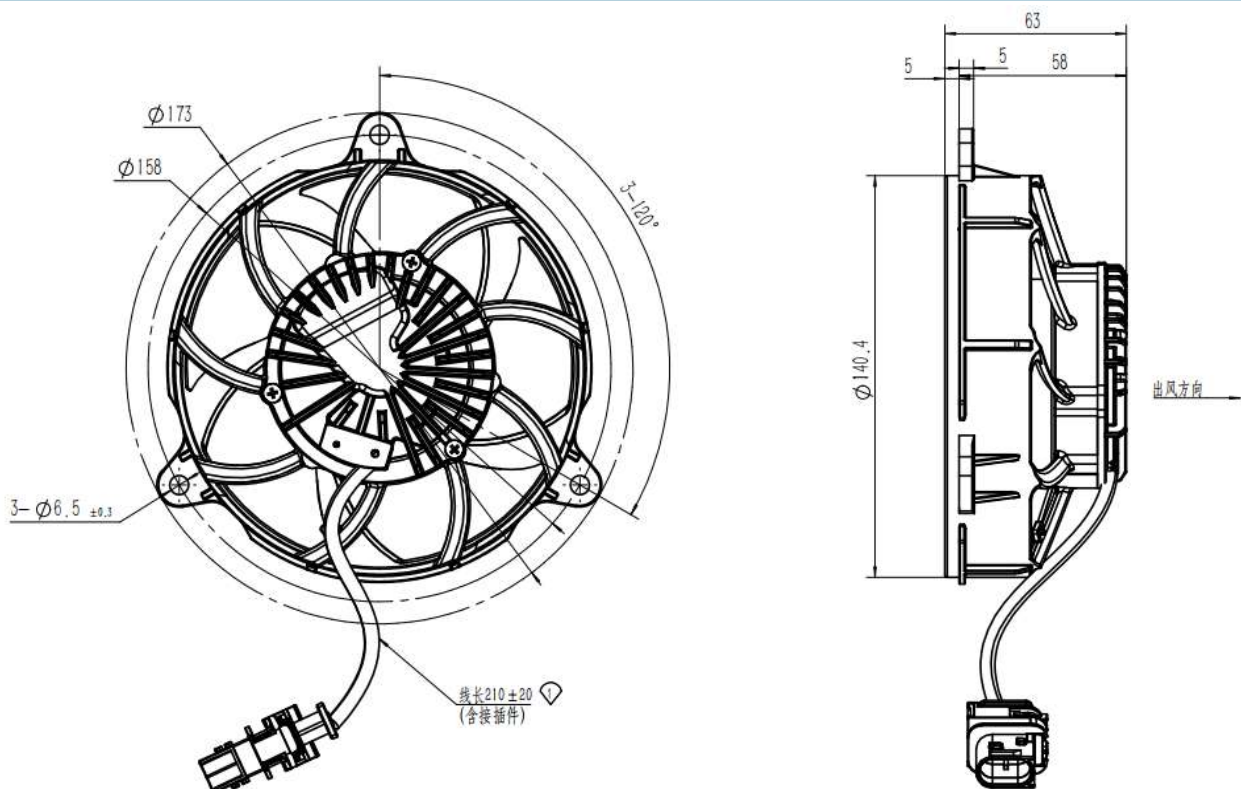
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F84-12BL8260-25S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø225mm	260W	M30

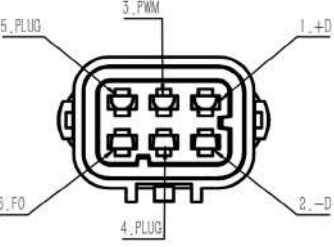
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4400
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	80
Weight 重量	kg	2.0
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

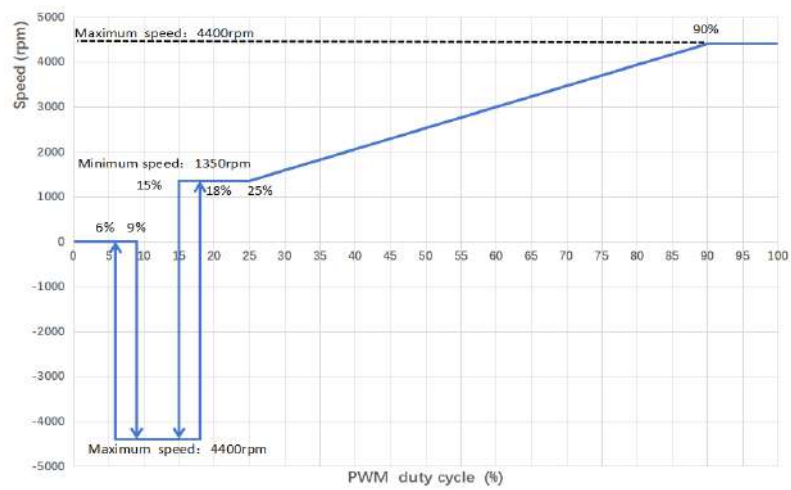
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

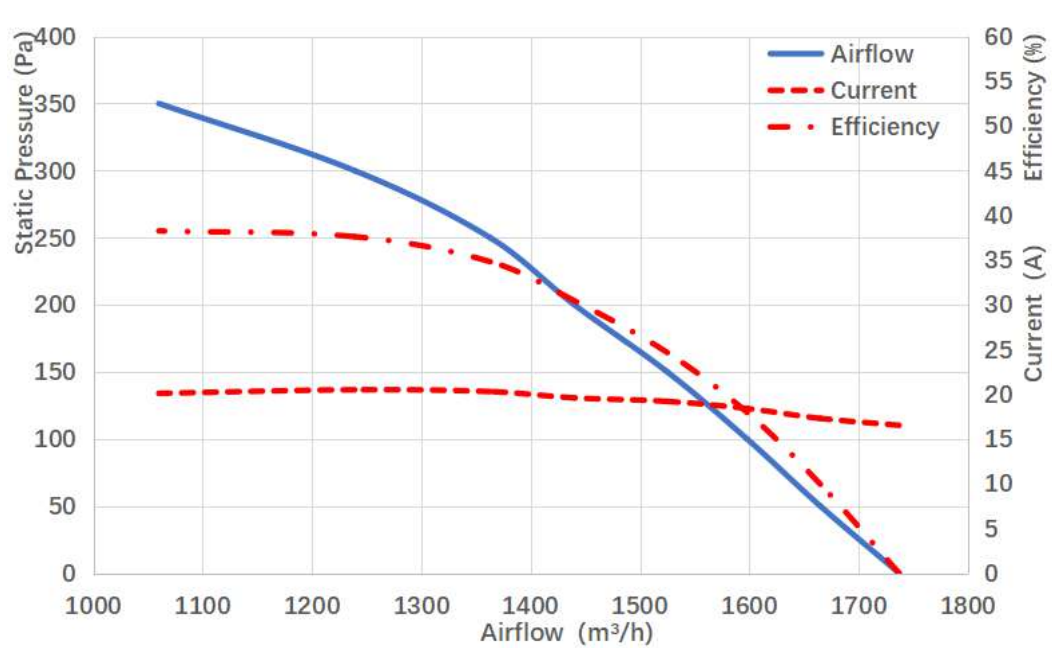
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

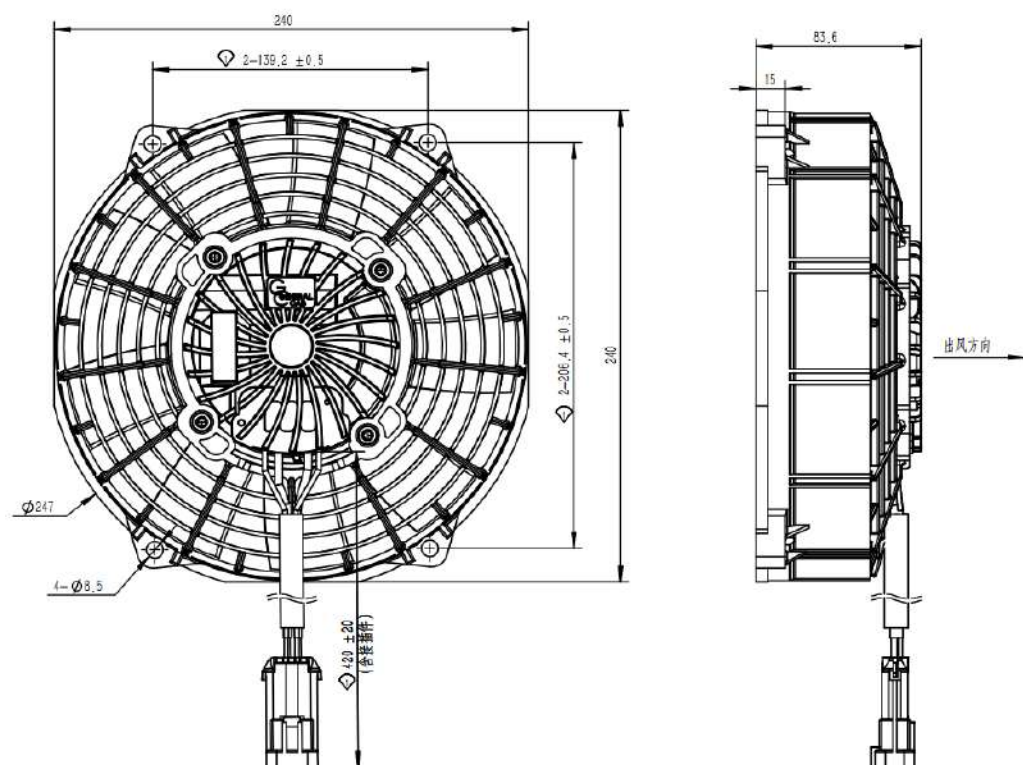
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F83B-12BL8400-28S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø255mm	400W	M30

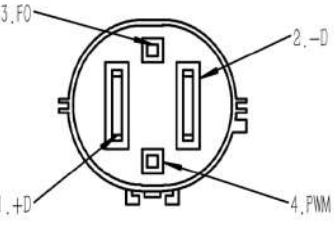
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	80.5
Weight 重量	kg	2.2
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	13
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M8	
Mounting torque 装配力矩	4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

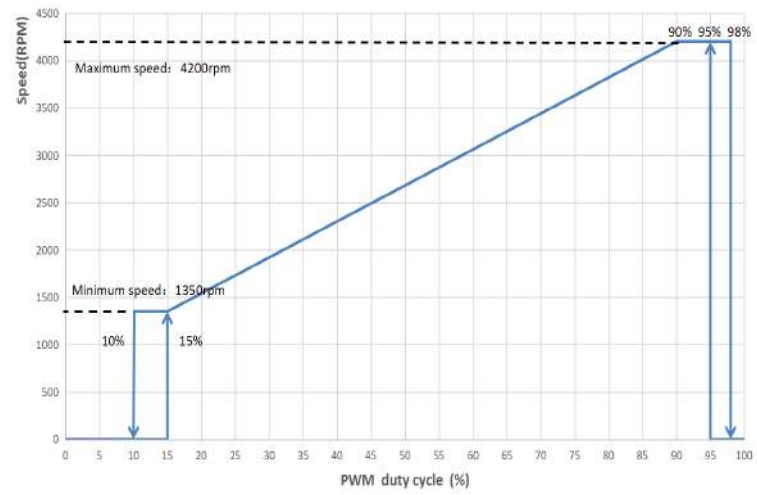
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

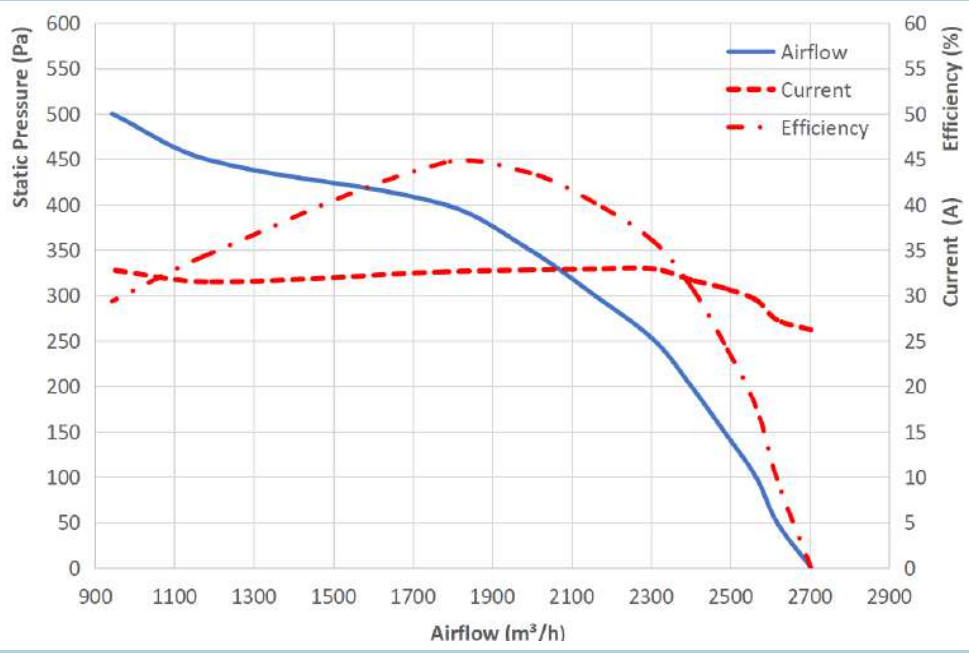
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

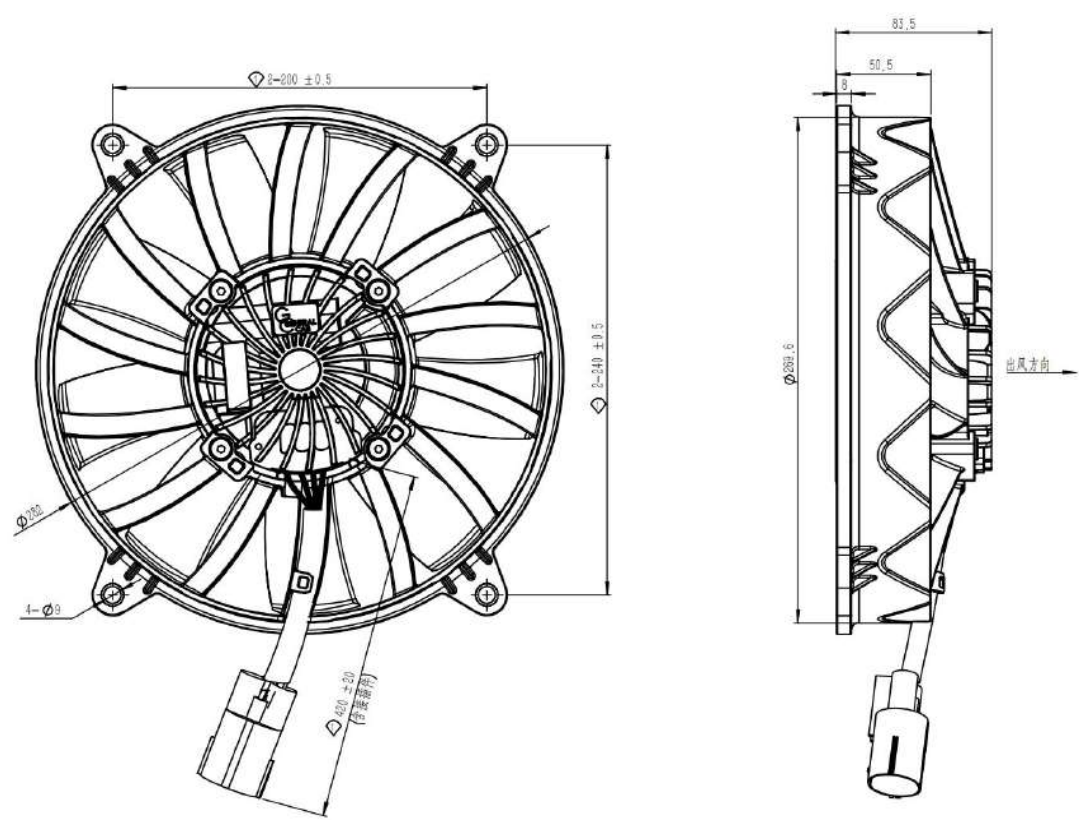
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F83B-12BL8407-28S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø255mm	400W	M30

FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	80.5
Weight 重量	kg	2.2
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	13
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M8	
Mounting torque 装配力矩	4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

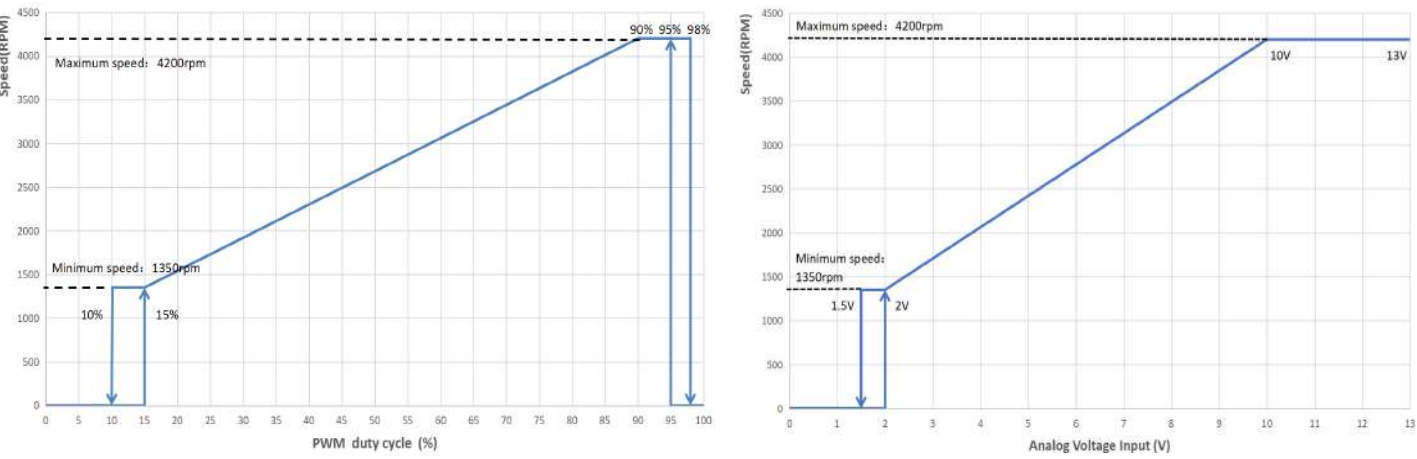
Part Number : 7282-8497-90

	Identification(*)	+D	-D	A	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

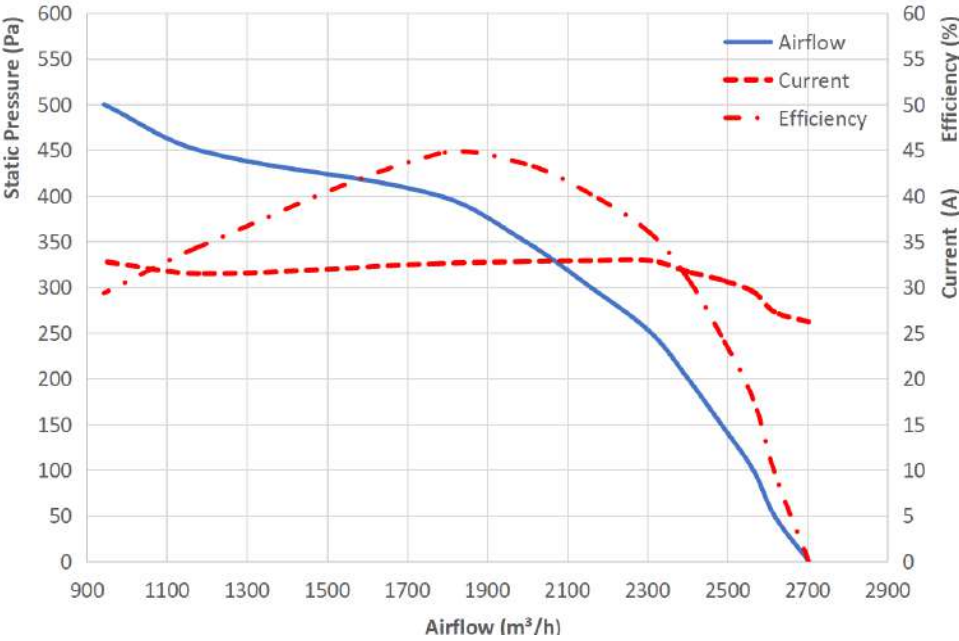
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

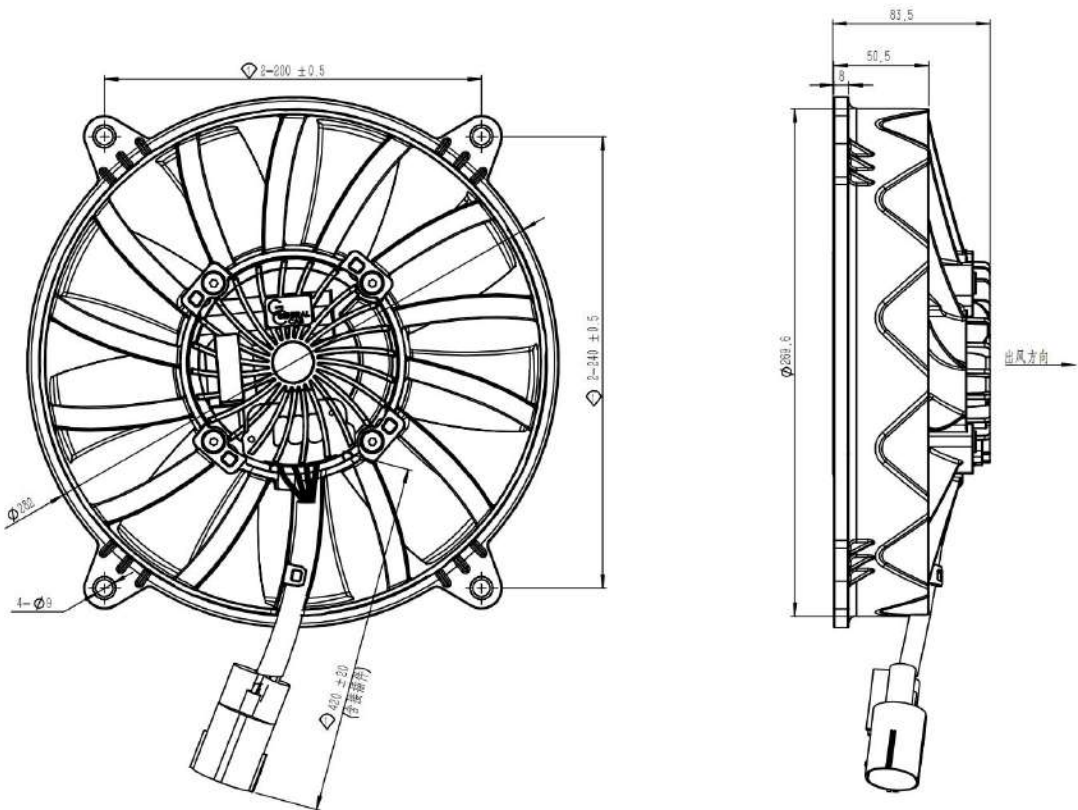
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F83B-12BL8408-28S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø255mm	400W	M30

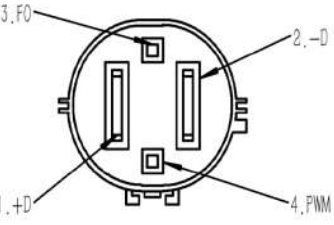
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	80.5
Weight 重量	kg	2.2
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	13
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M8	
Mounting torque 装配力矩	4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

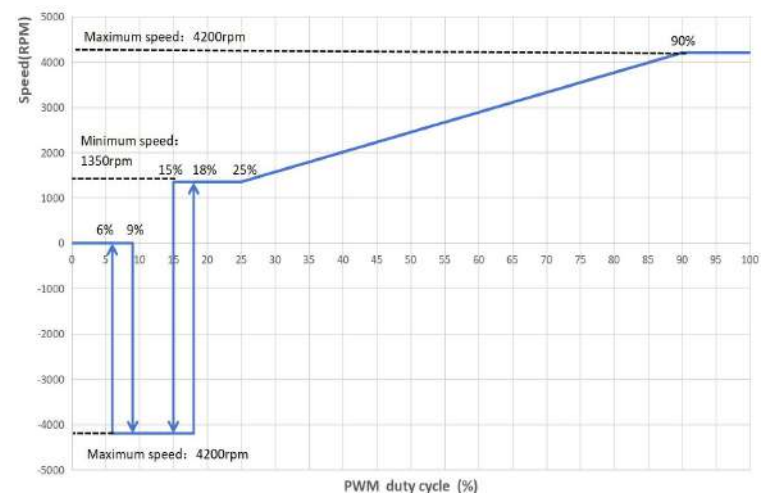
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

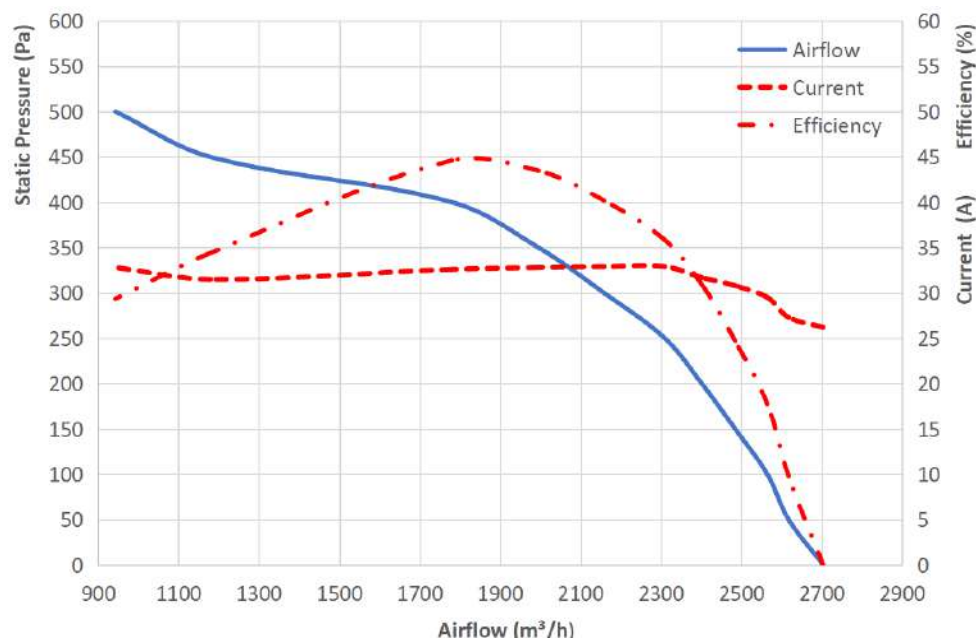
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

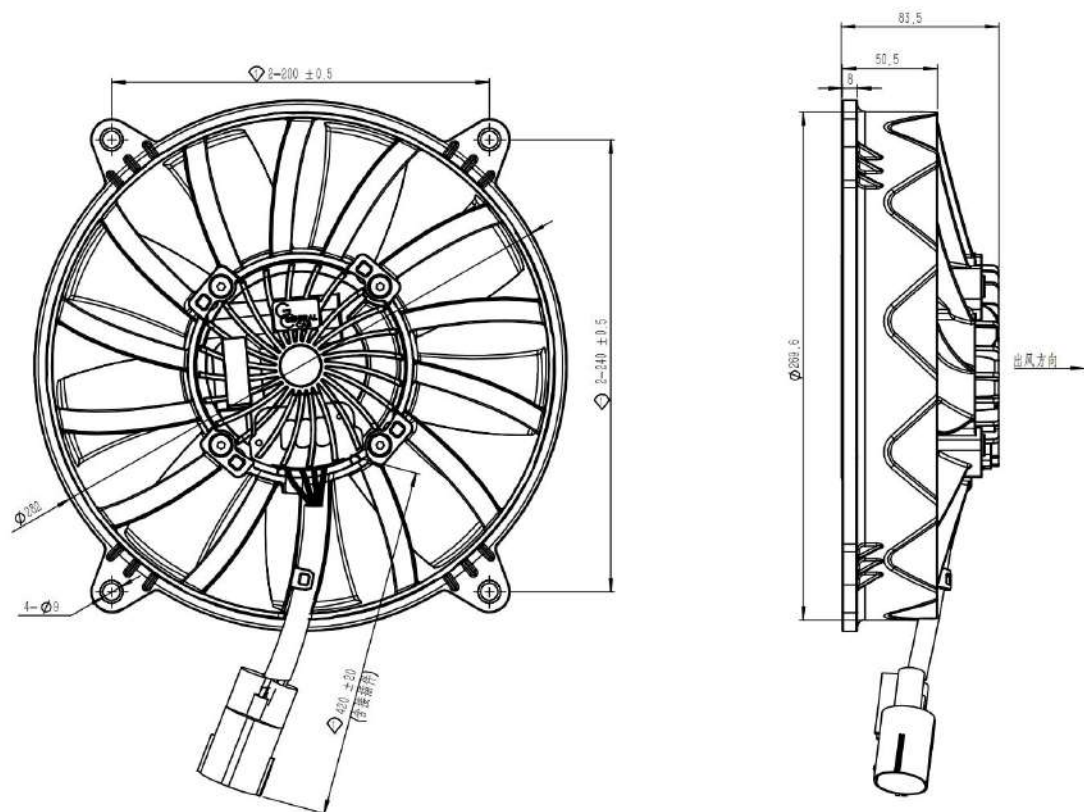
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82-12BL8300-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	300W	M30

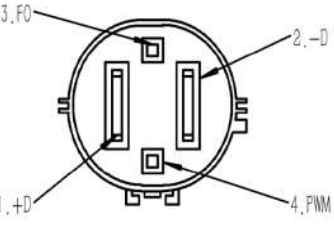
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3500
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	79
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

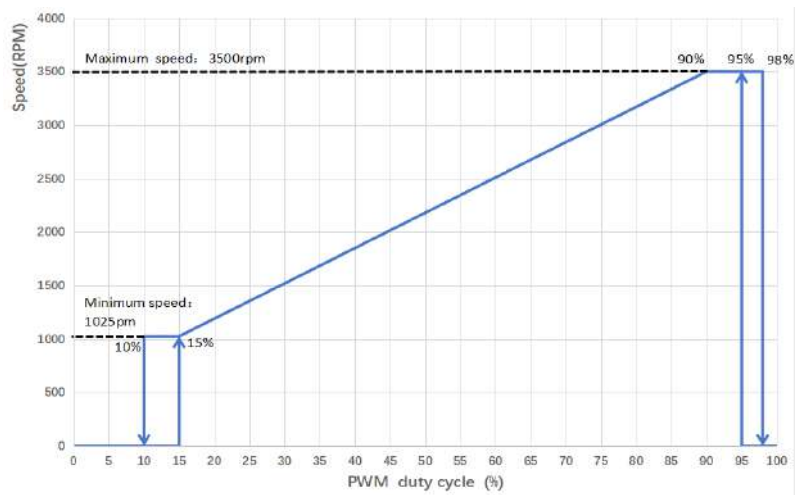
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

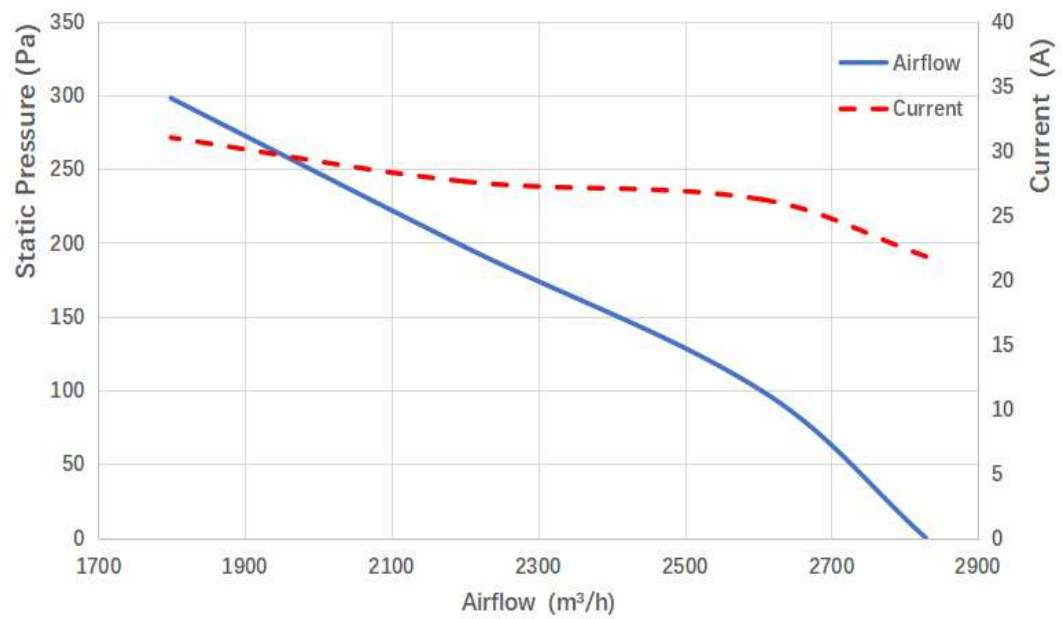
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

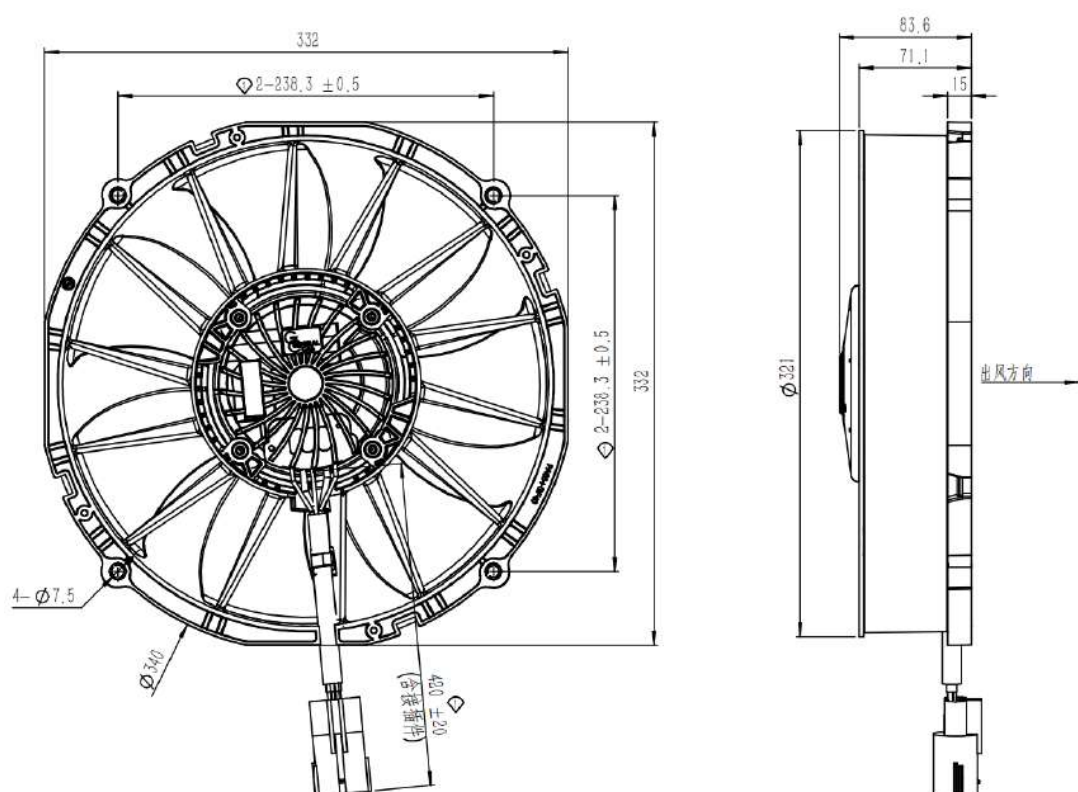
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82-12BL8303-31S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	300W	M30

FEATURES | 主要参数

Max fan speed 最大转速	rpm	3500
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	79
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

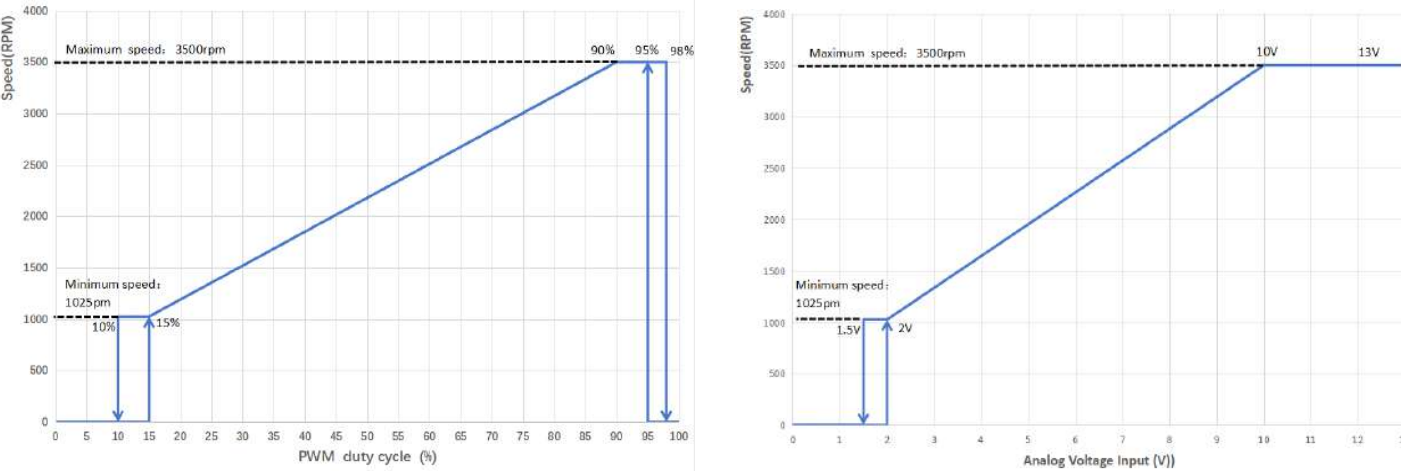
Part Number : 7282-8497-90

	Identification(*)	+D	-D	A	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

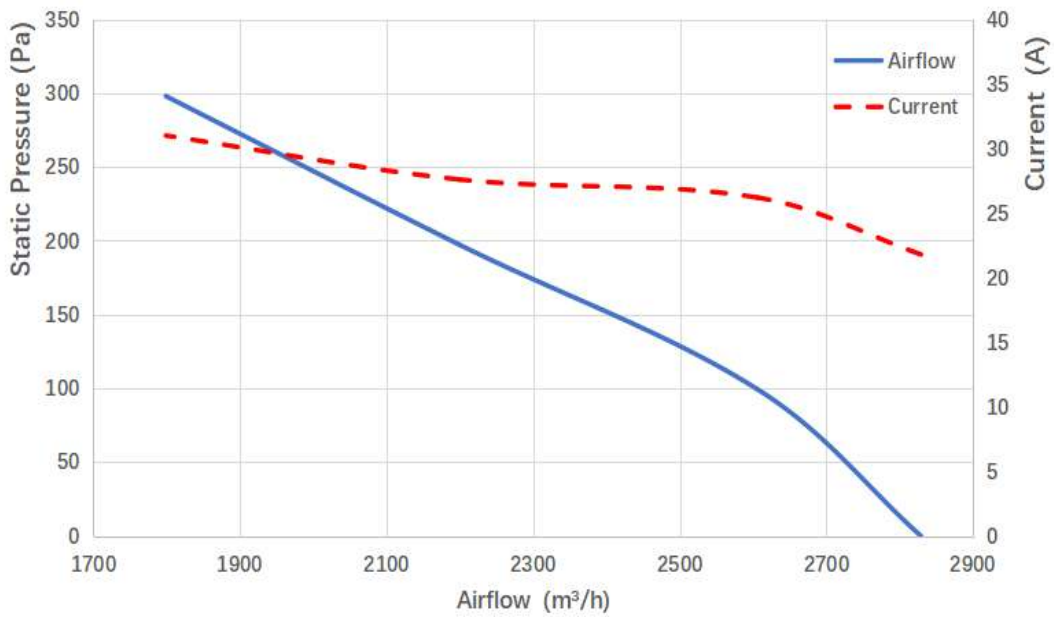
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

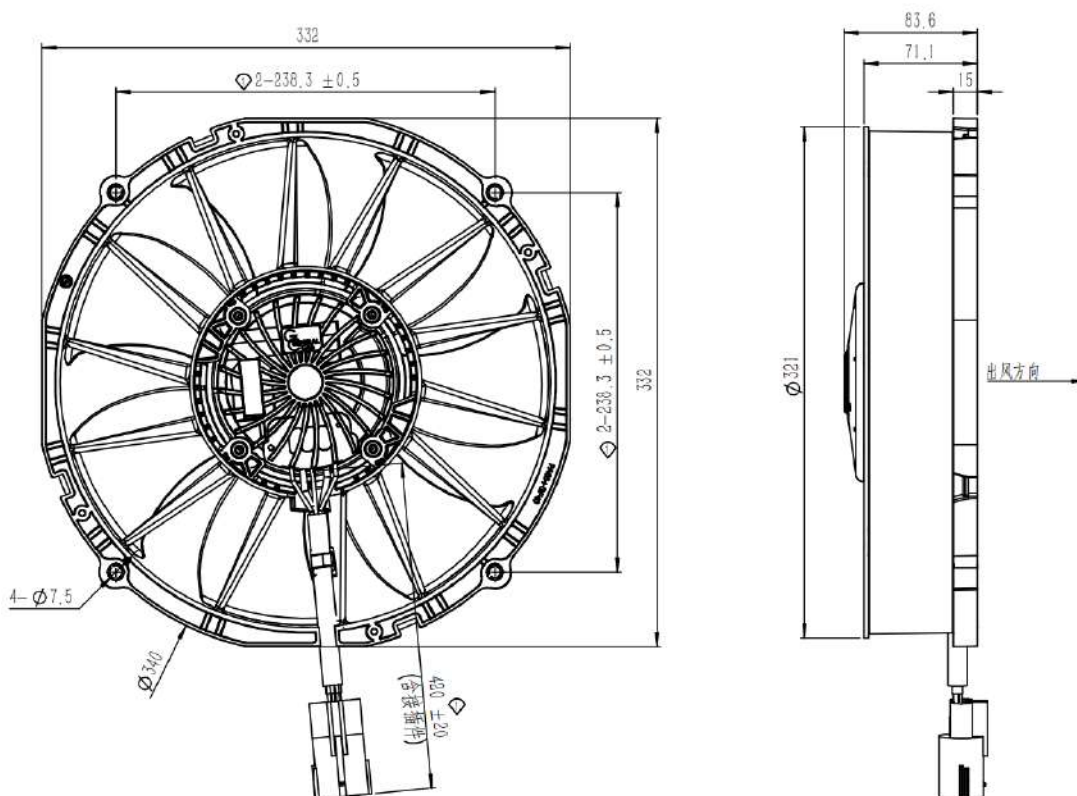
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82-12BL8304-31S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	300W	M30

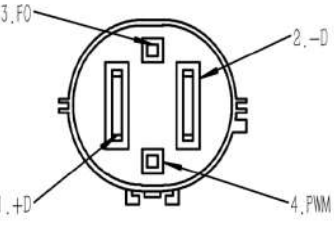
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3500
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	79
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

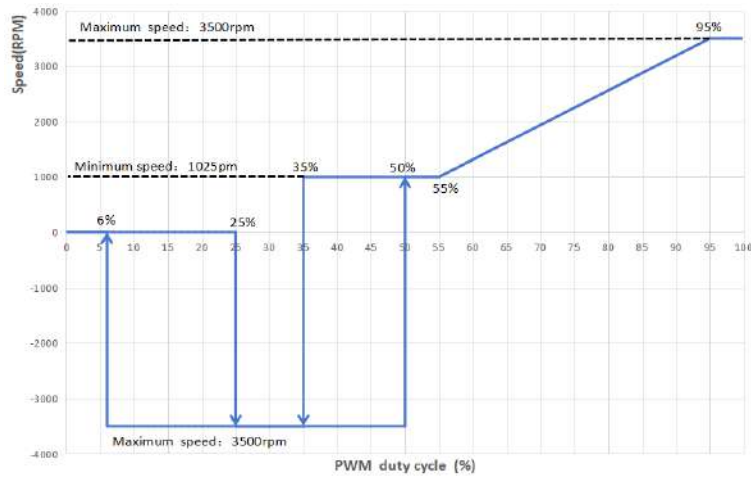
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

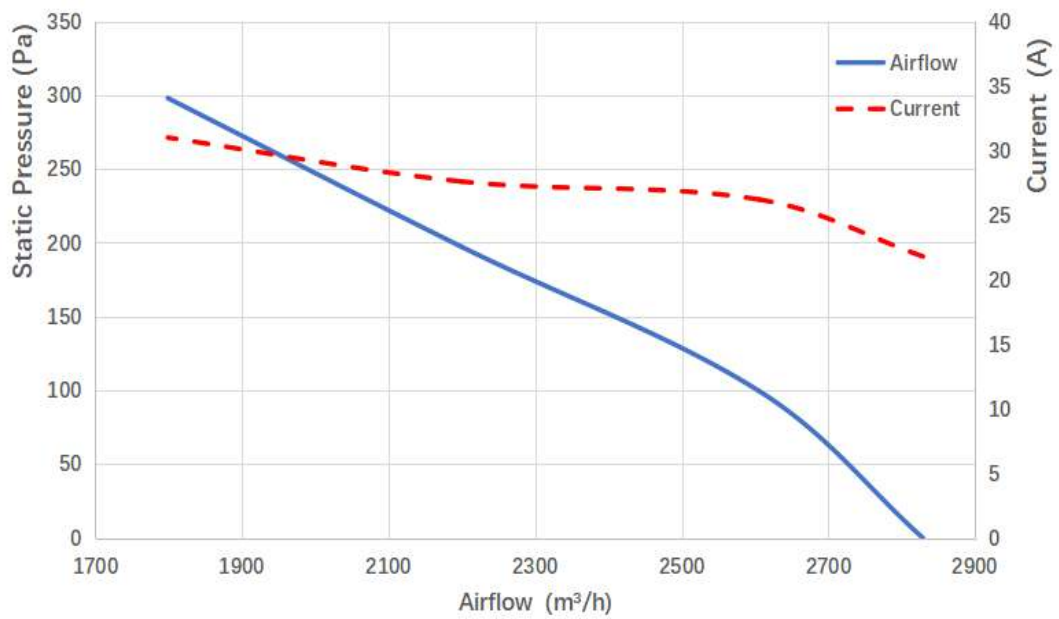
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

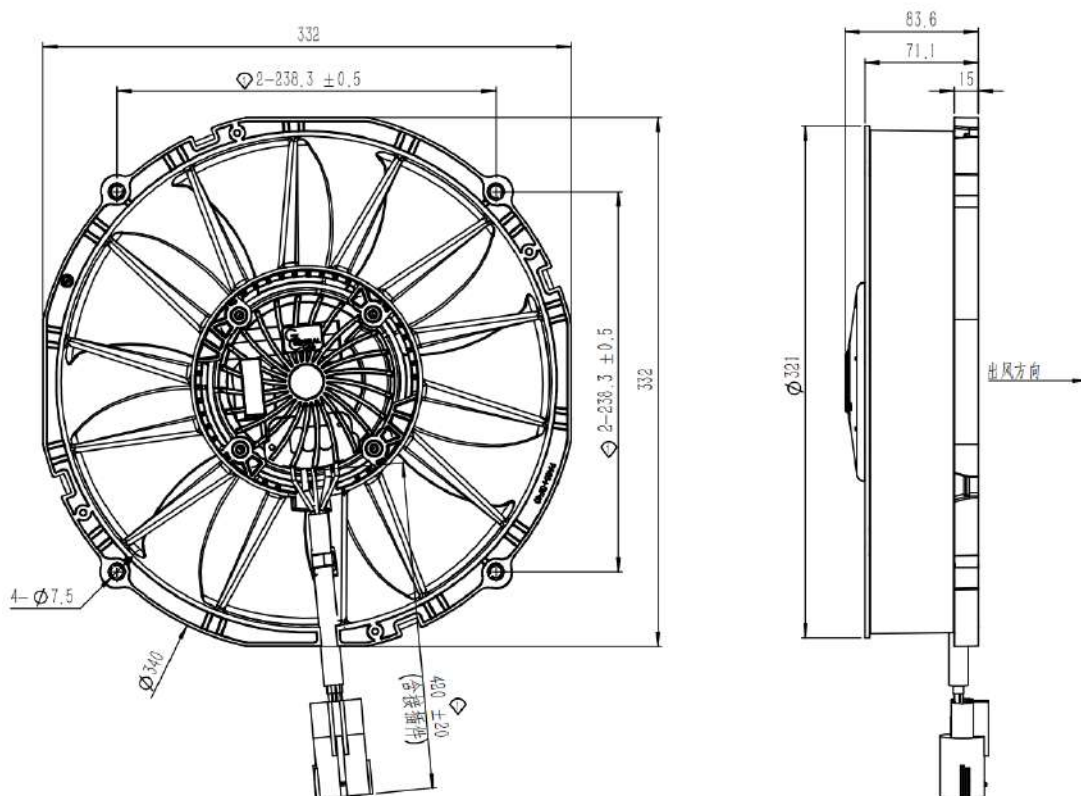
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-12BL8303-31S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	300W	M30

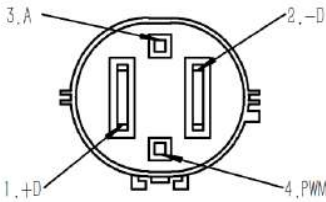
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3500
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	76
Weight 重量	kg	3.2
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

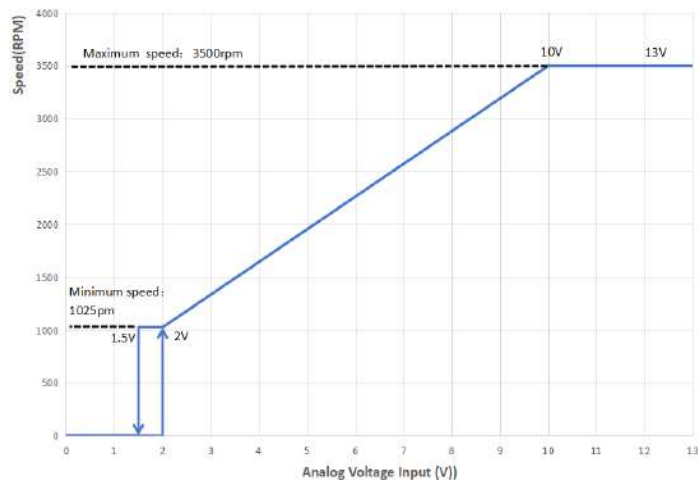
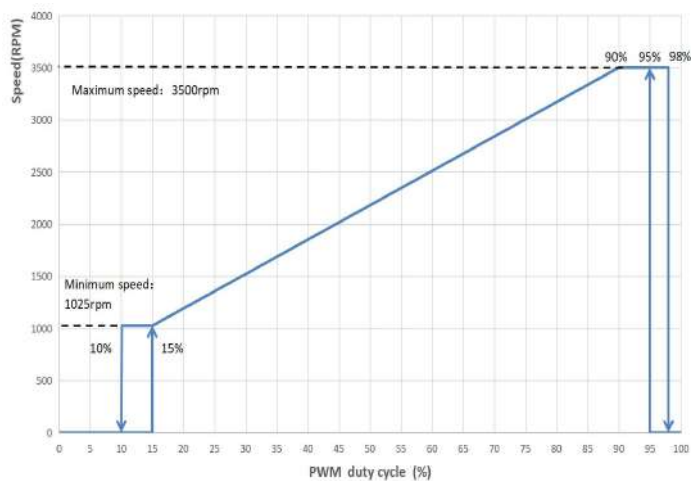
Part Number : 7282-8497-90

	Identification(*)	+D	-D	A	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

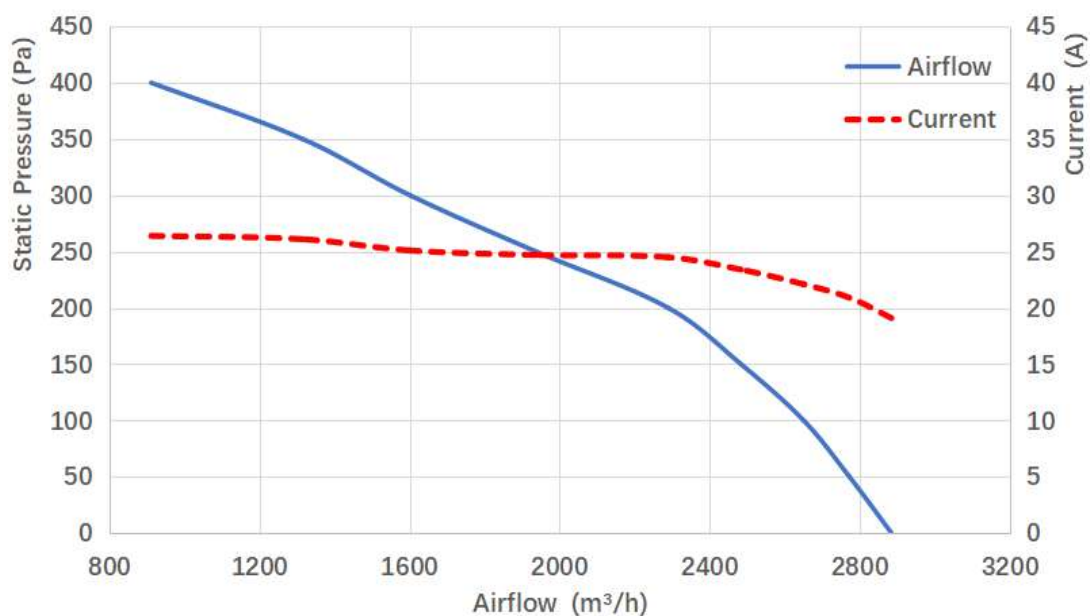
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

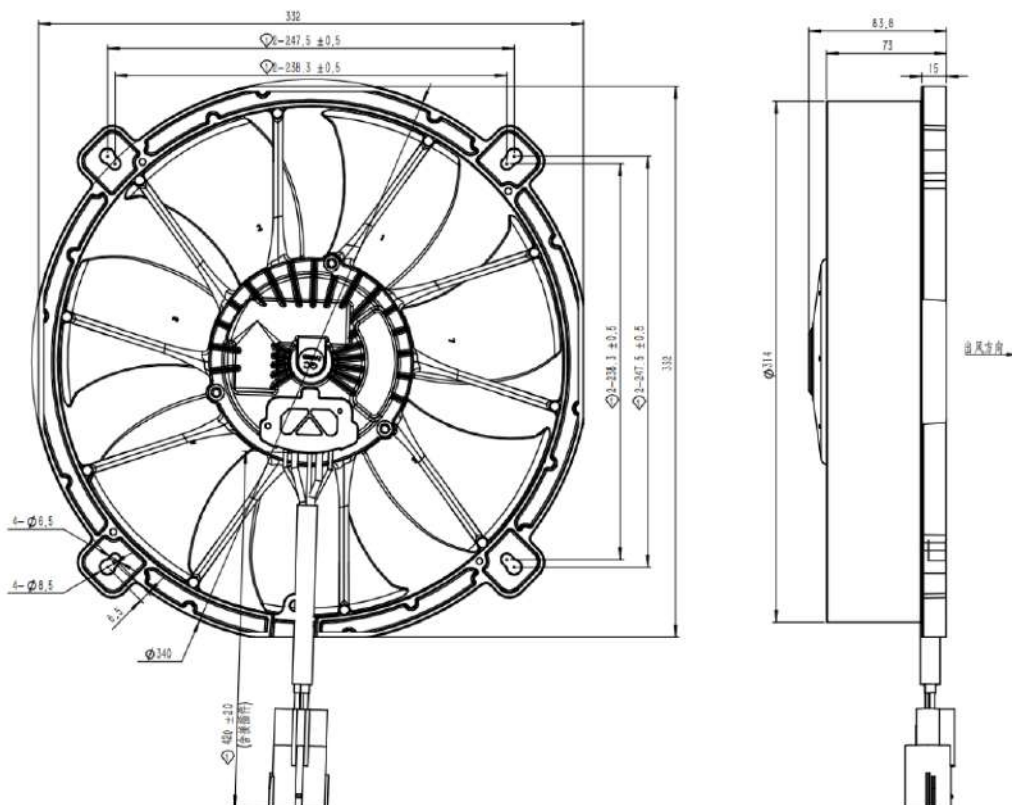
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-12BL8304-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	300W	M30

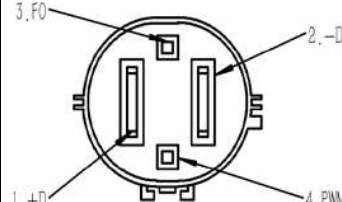
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3500
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	76
Weight 重量	kg	3.2
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

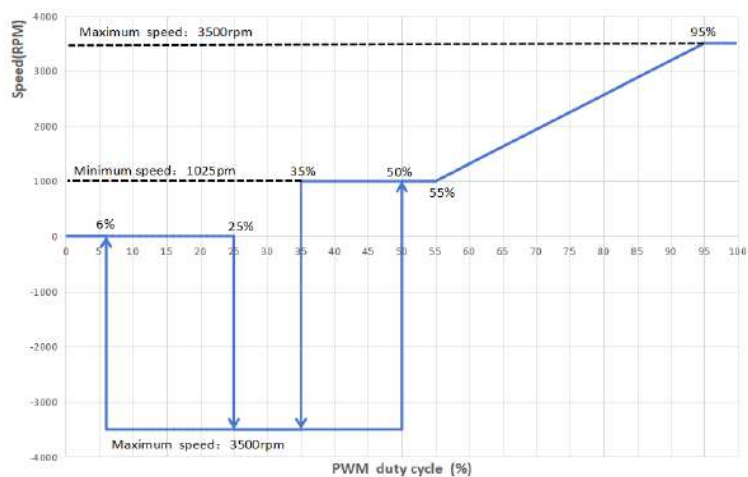
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

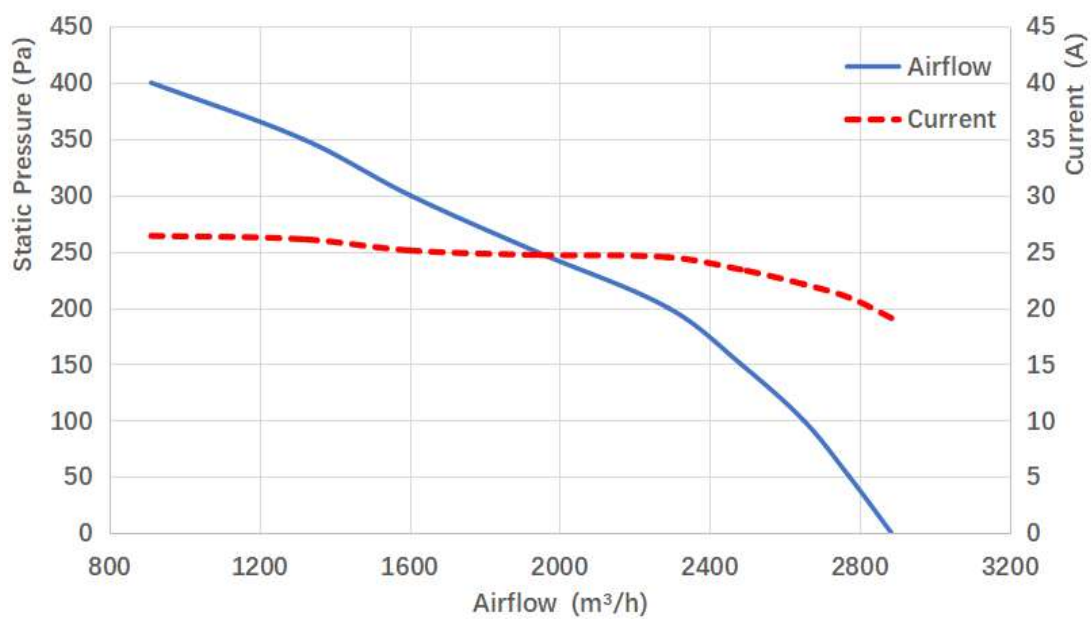
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

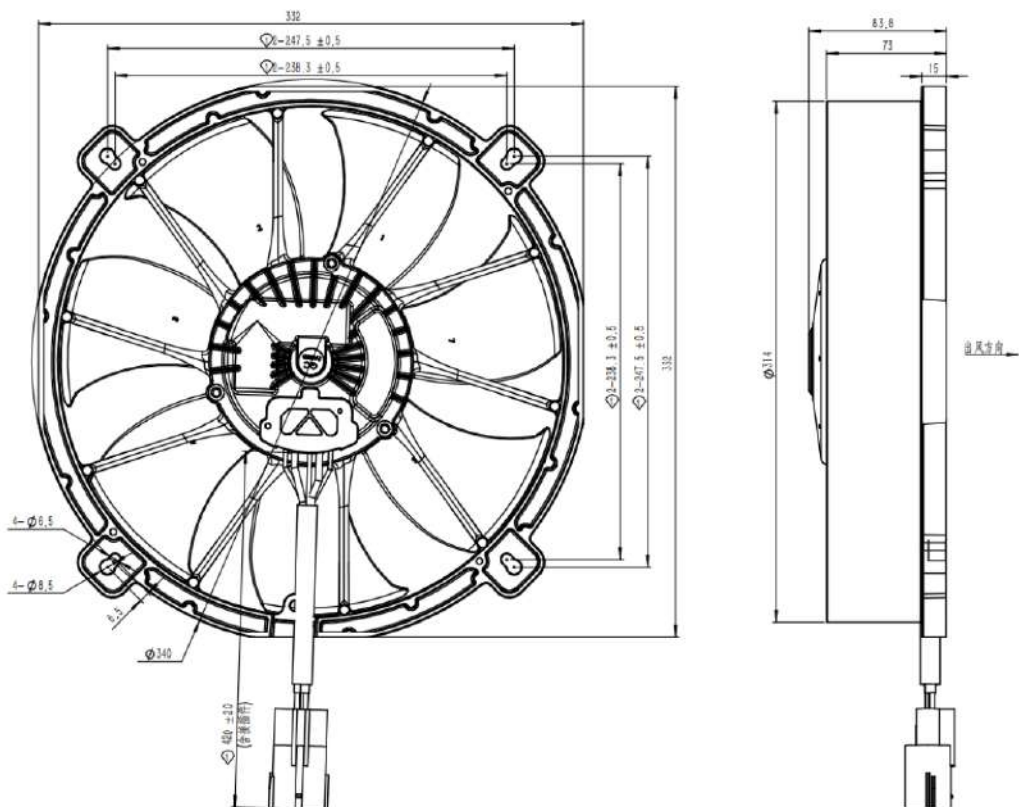
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-12BL8510-31S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M30

FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	80
Weight 重量	kg	3.3
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

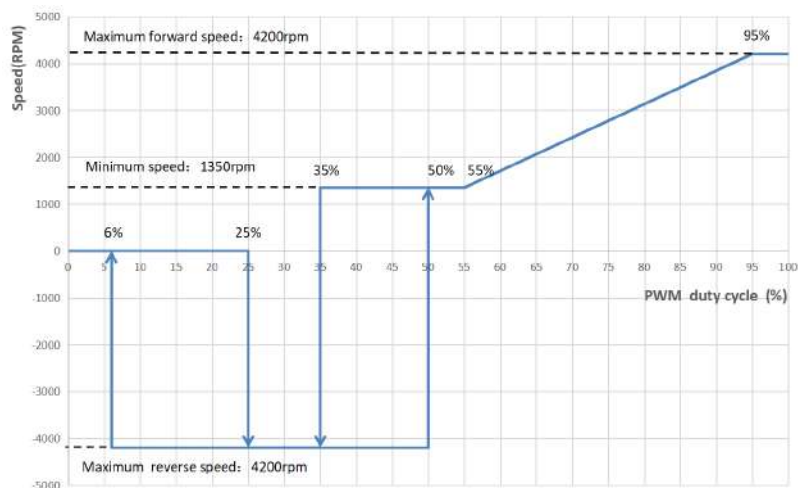
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	7158-3030-50	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	7114-4102-02	7114-4102-02
	Section [mm²]	10.0	10.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

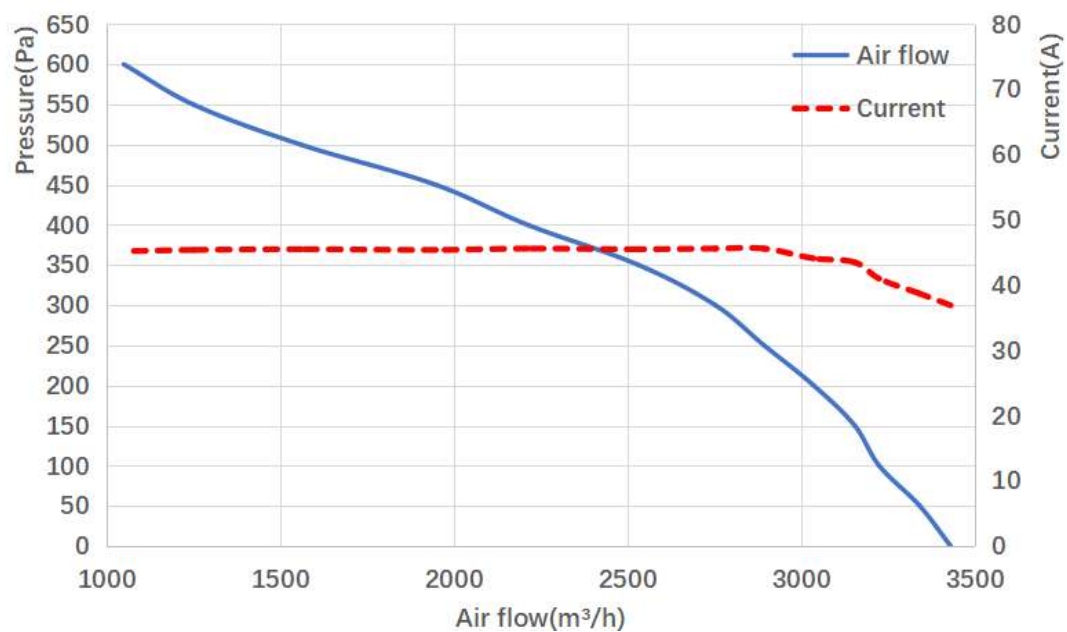
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

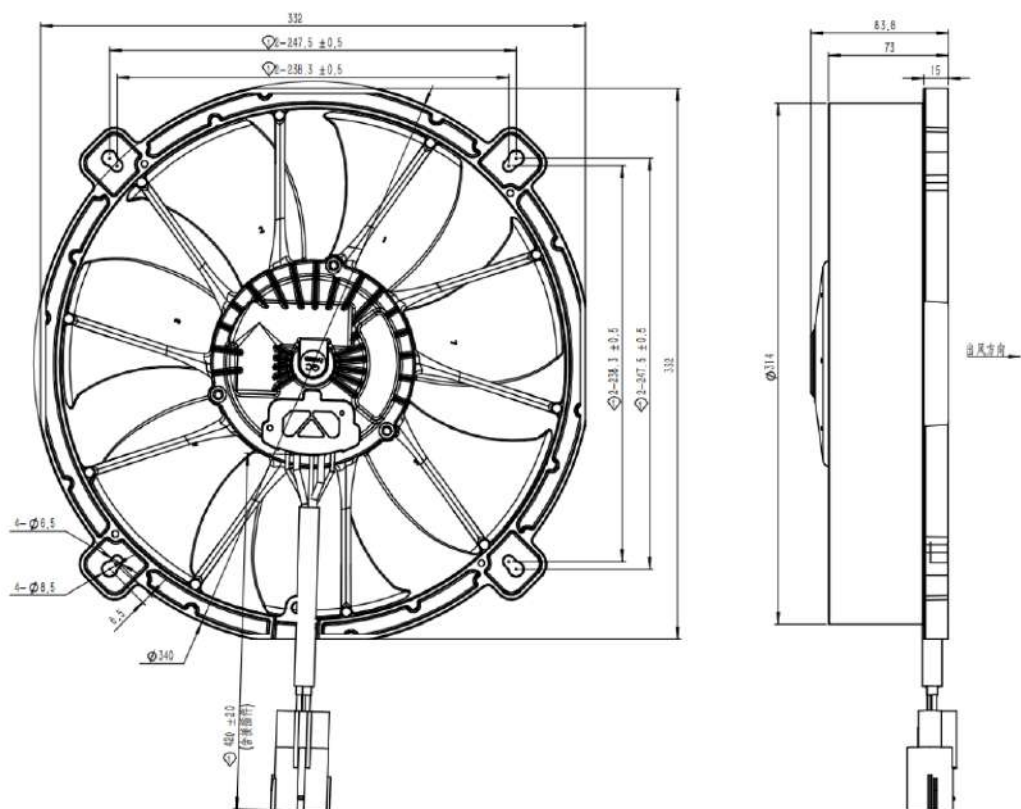
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-12BL8511-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M30

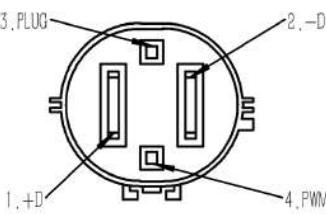
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	80
Weight 重量	kg	3.3
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

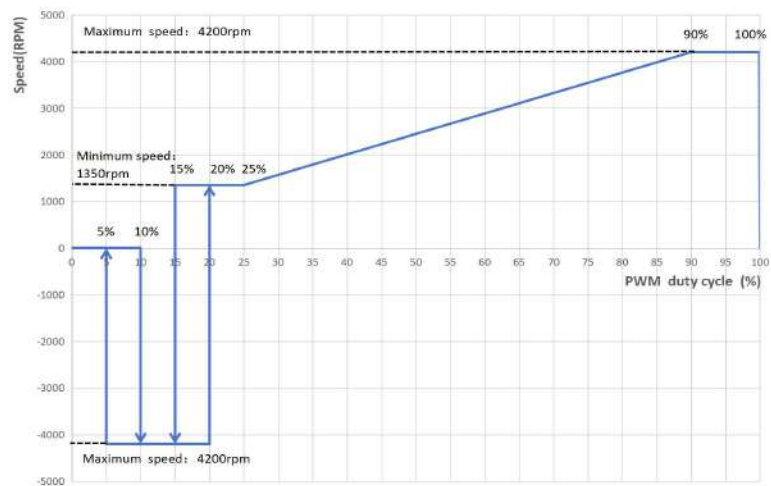
Part Number : 7282-8496-90

	Identification(*)	+D	-D	/	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	/	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	/	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	/	7114-4102-02
	Section [mm²]	10.0	10.0	/	0.75
Note: Never handle the fan module via the cable harness					

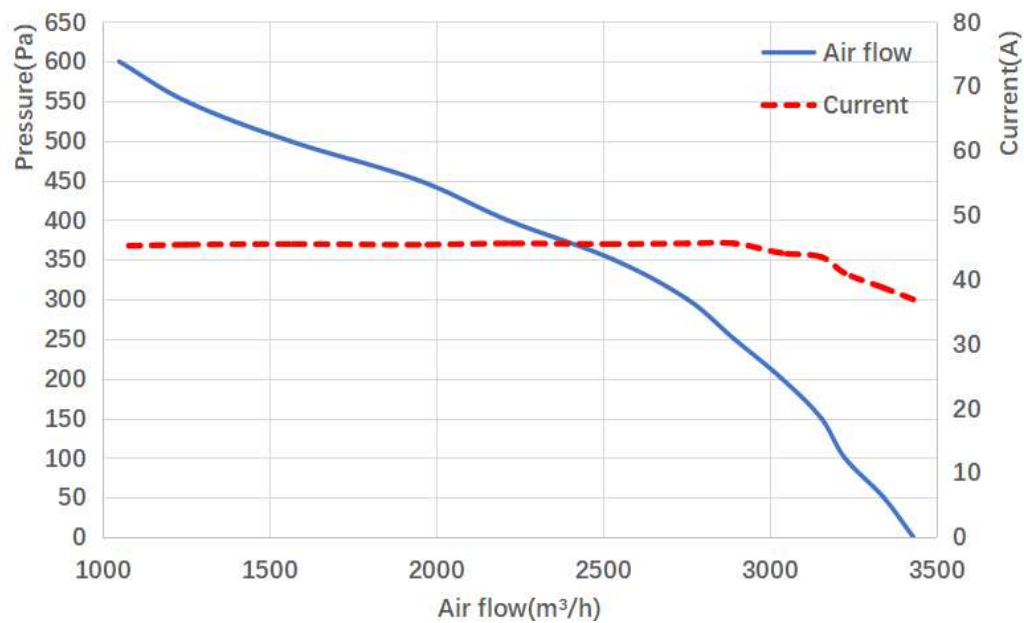
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

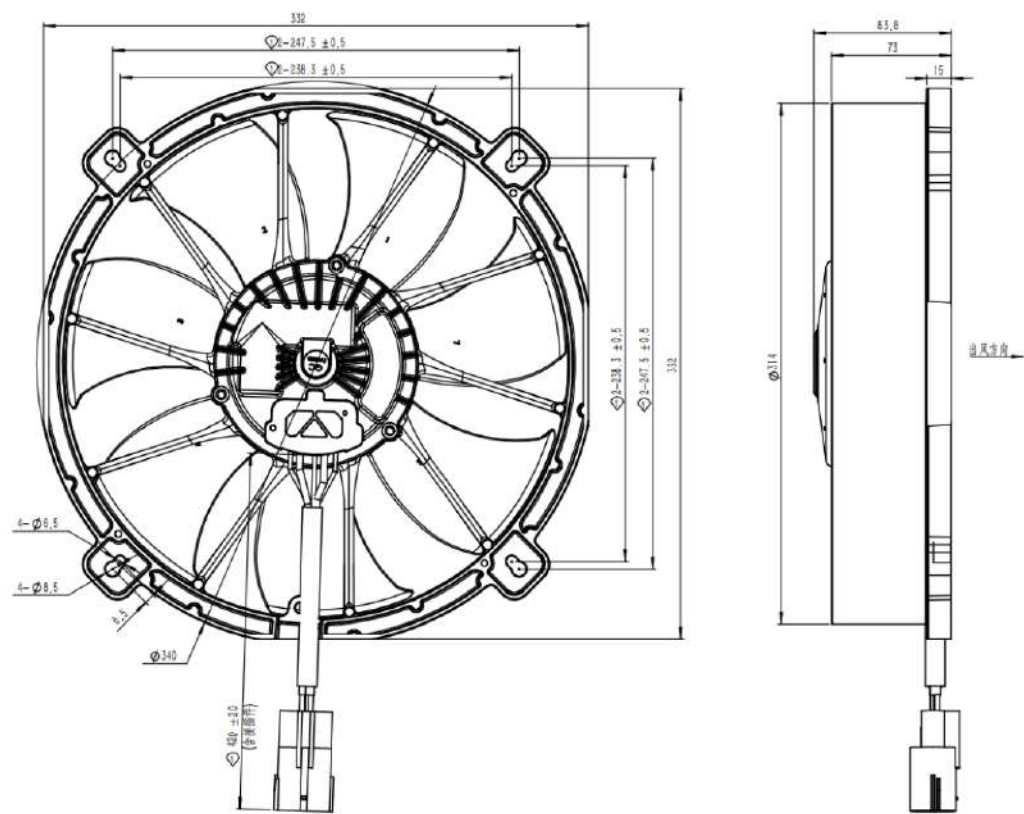
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-12BL8303-32S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	300W	M30

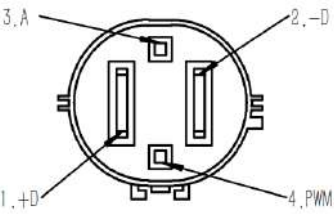
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3500
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	76
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

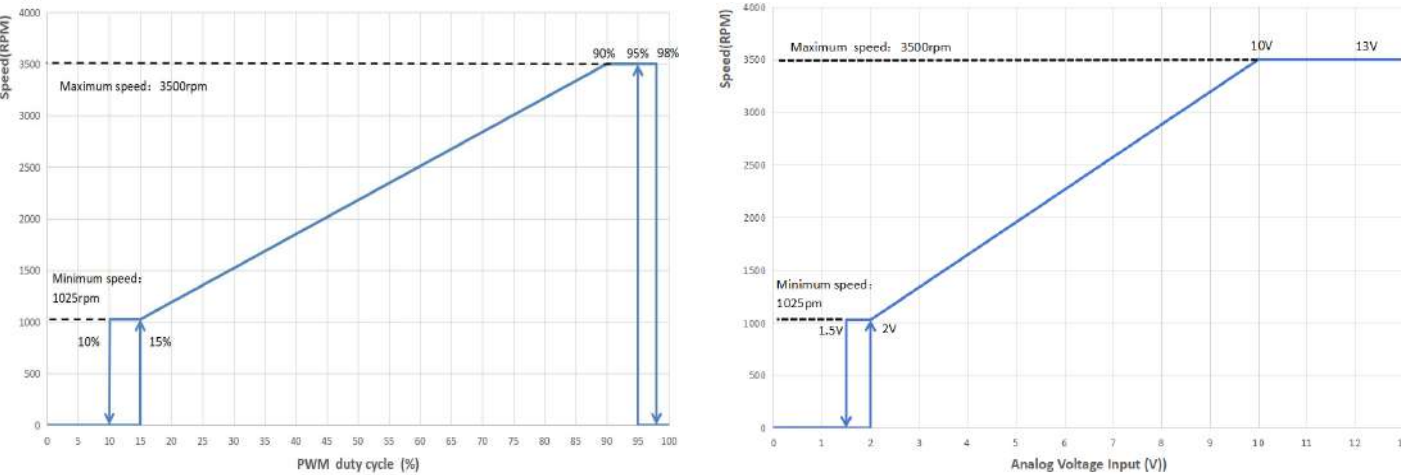
Part Number : 7282-8497-90

	Identification(*)	+D	-D	A	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

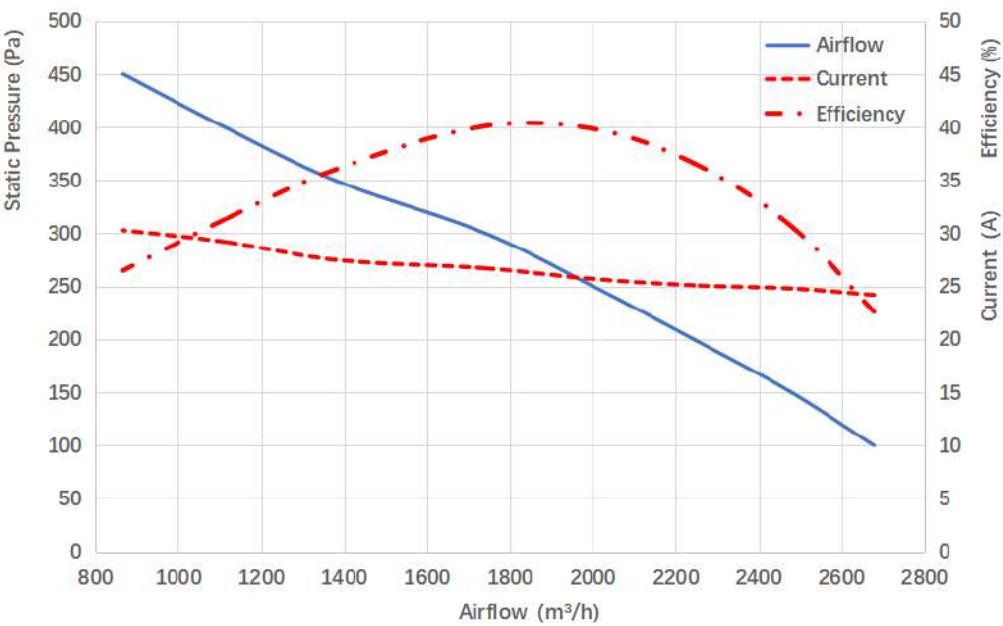
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

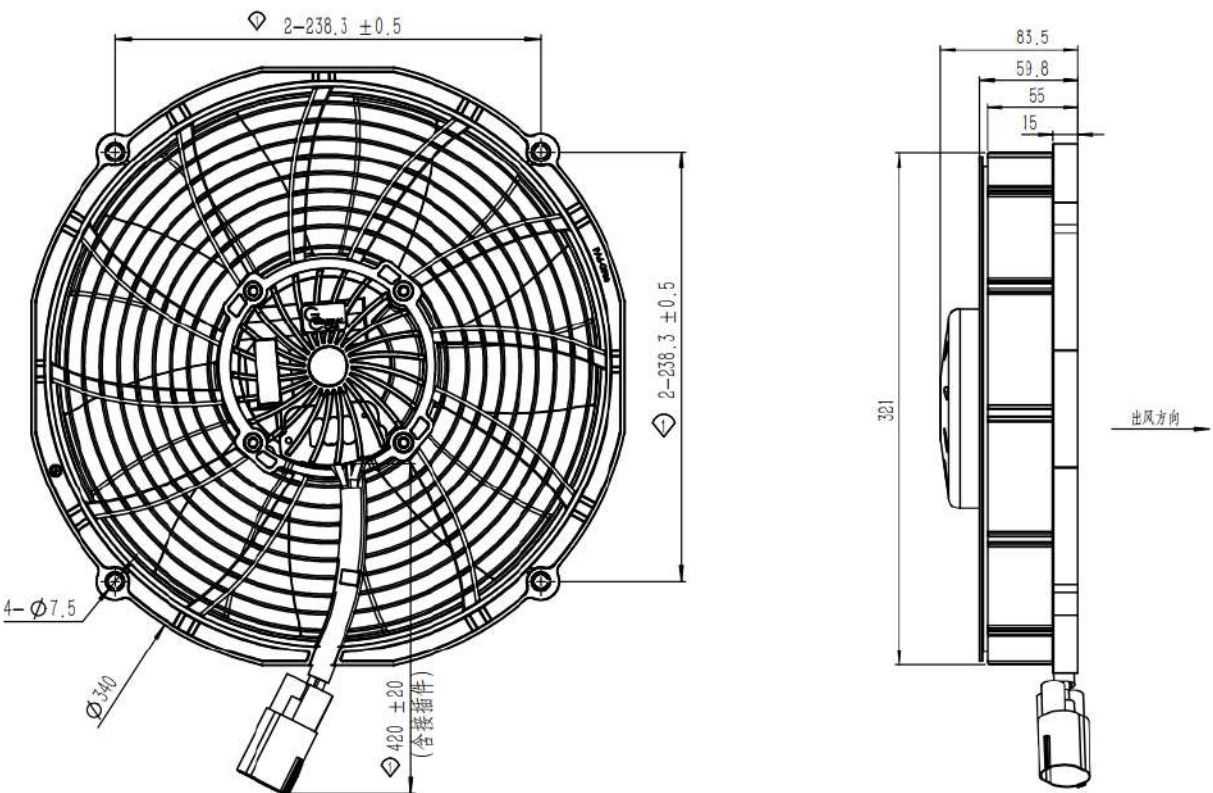
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-12BL8410-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	400W	M30

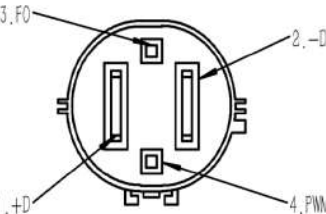
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3850
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	79
Weight 重量	kg	2.7
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+90
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

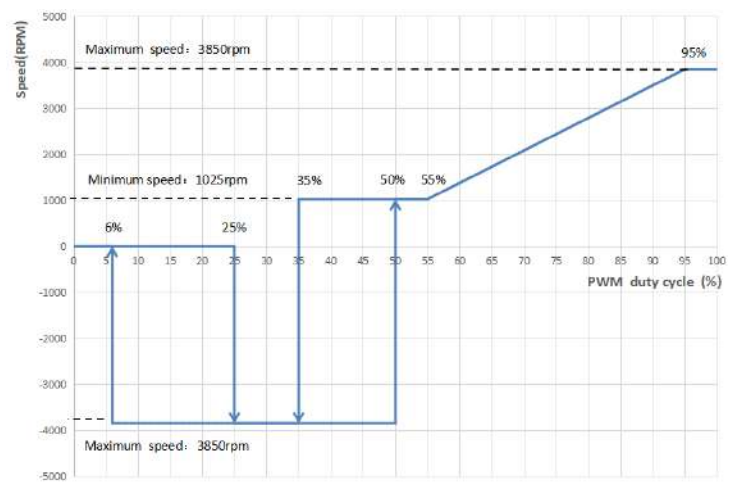
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	7158-3030-50	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	7114-4102-02	7114-4102-02
	Section [mm²]	10.0	10.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

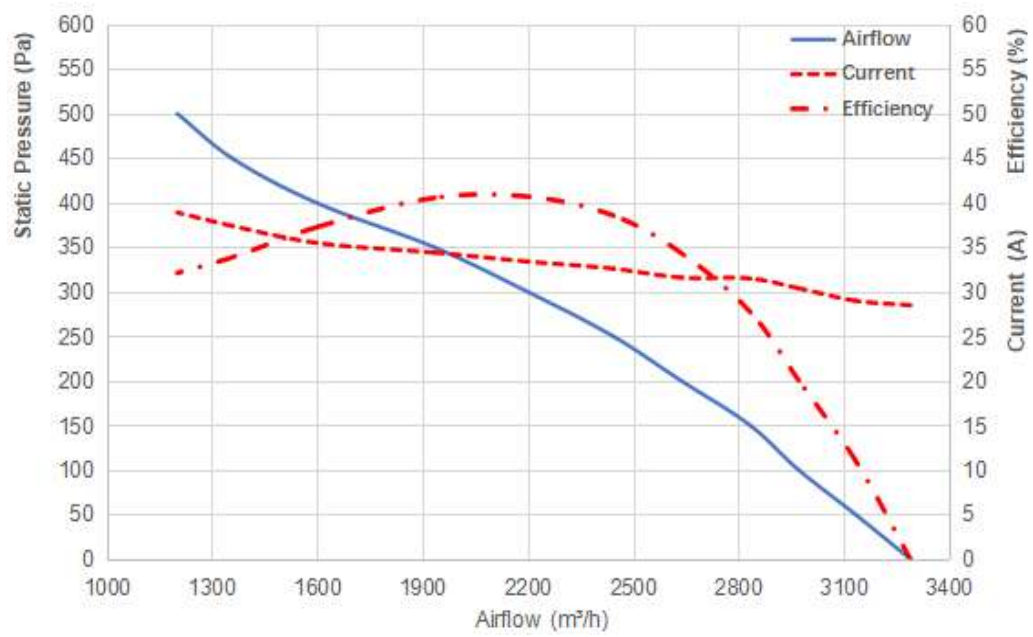
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

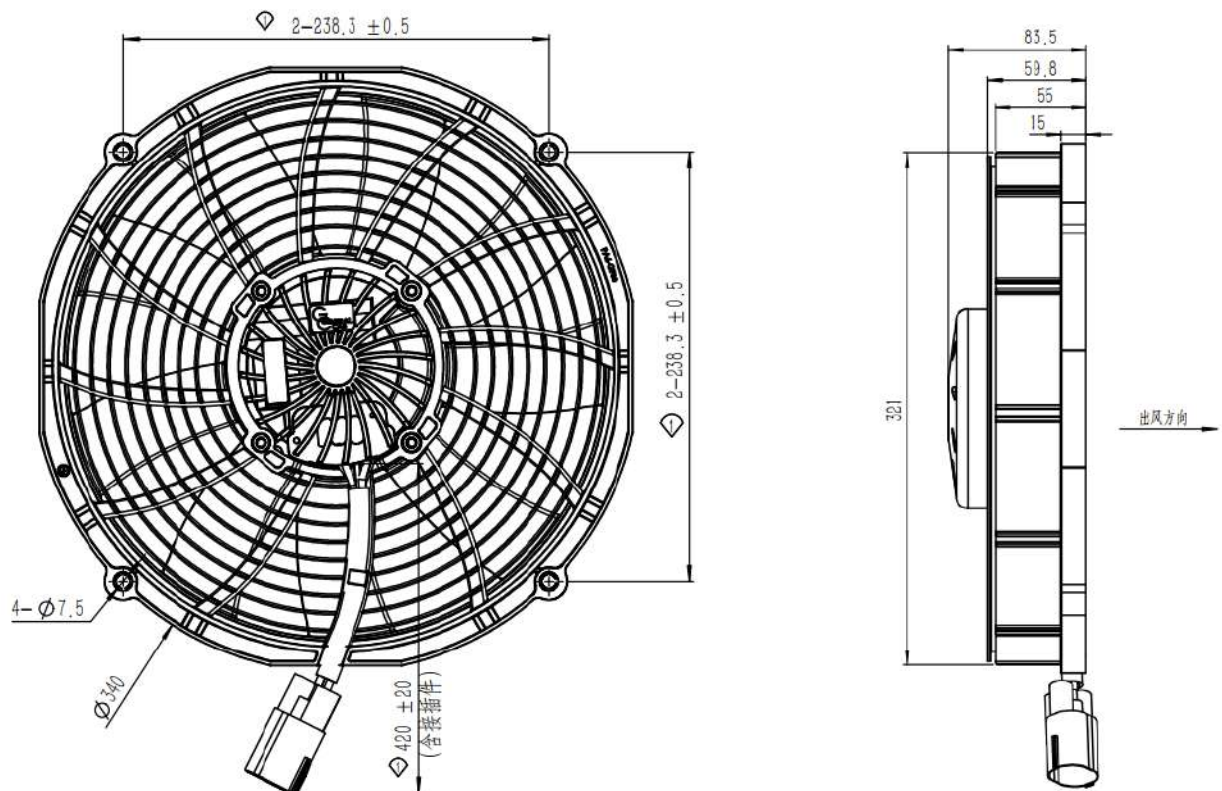
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-12BL8511-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M30

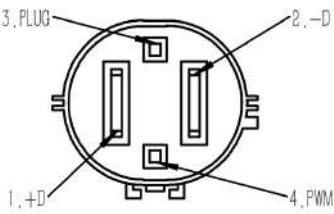
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	81
Weight 重量	kg	2.7
Operating supply voltage range 工作电压范围	V	9.0~16.0
Supply voltage to reach max speed 达到最大转速的电压	V	13.6~16.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

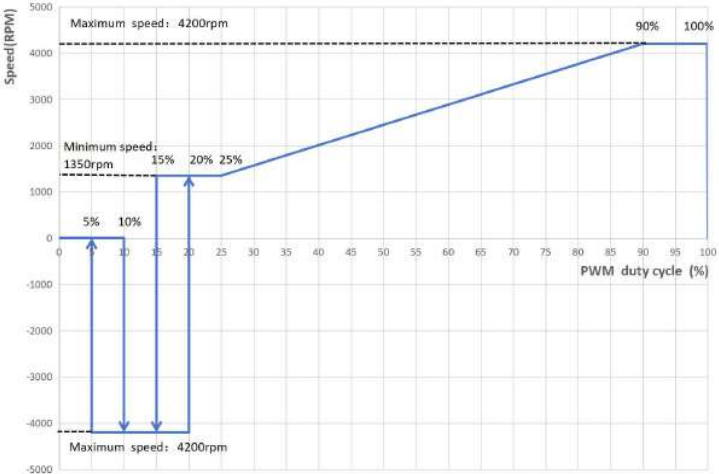
Part Number : 7282-8497-90

	Identification(*)	+D	-D	/	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	/	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	/	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	/	7114-4102-02
	Section [mm²]	10.0	10.0	/	0.75
Note: Never handle the fan module via the cable harness					

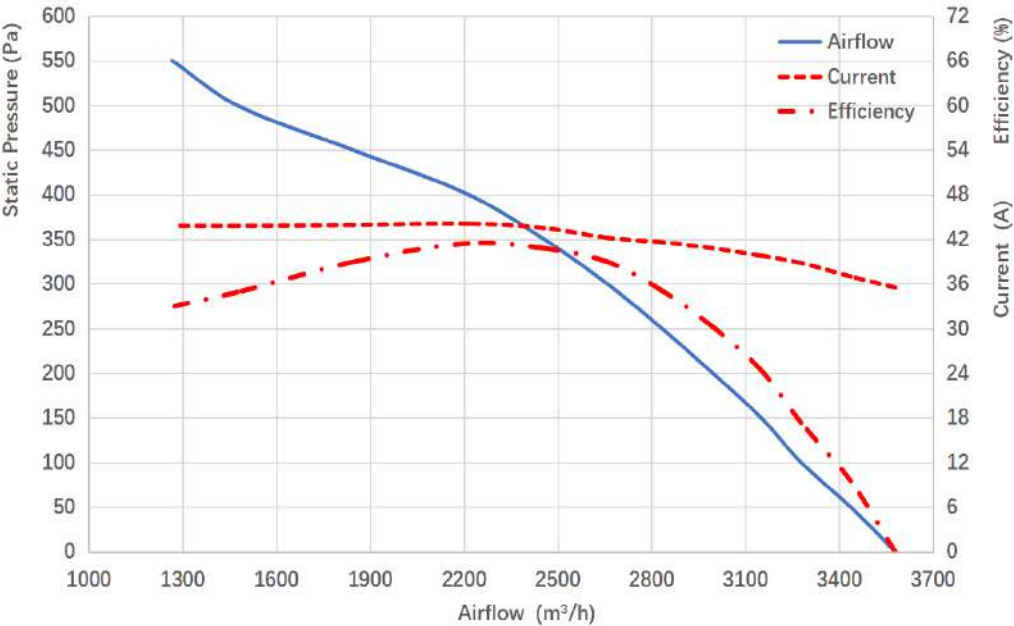
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	9				400	9
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

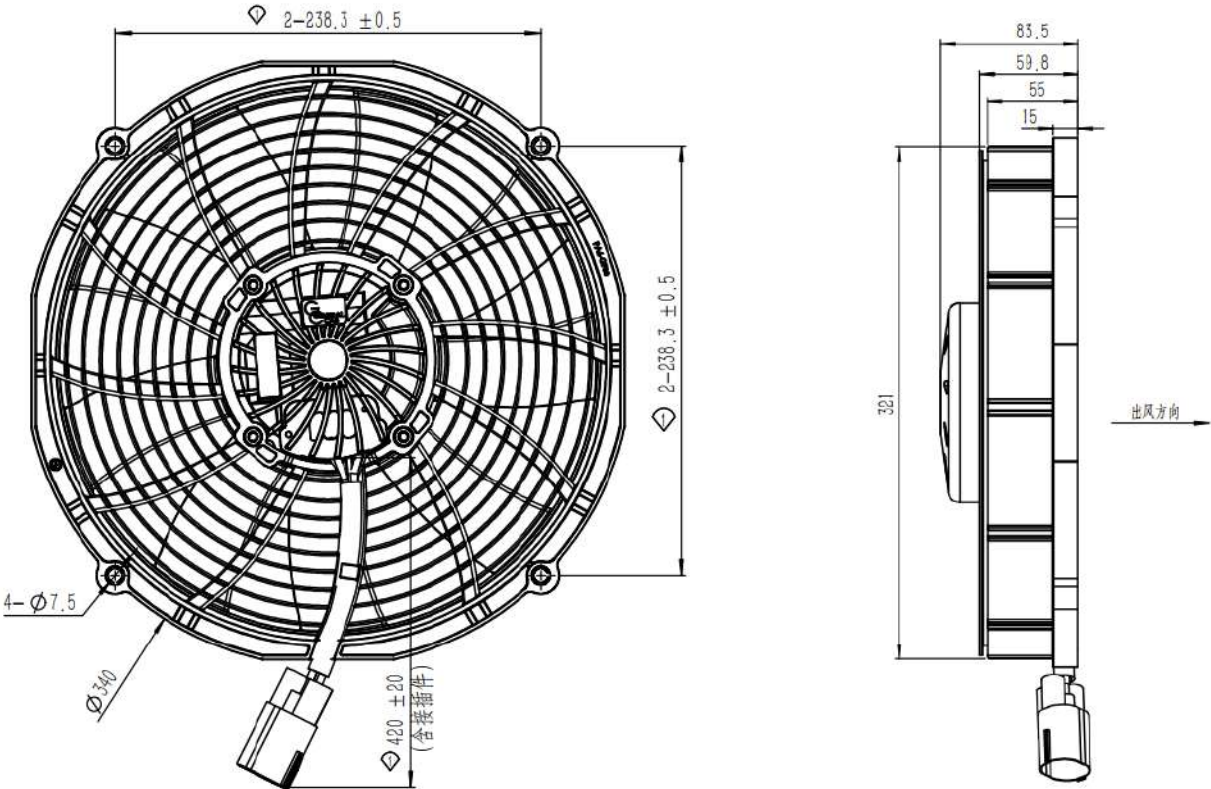
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸





A large, light gray, stylized letter 'E' is centered in the background of the image. It has a thick stroke and a modern, slightly irregular design.

24V

Brushless Axial Fan

F75-24BL8030-13S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø130mm	30W	M10

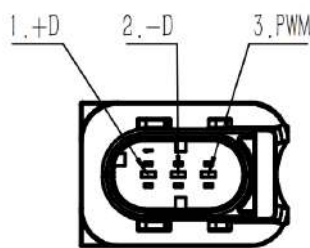
FEATURES | 主要参数

Max fan speed 最大转速	rpm	5500
Min fan speed 最小转速	rpm	1300
Sound pressure level at max speed 最大转速噪音	dBA	59
Weight 重量	kg	0.7
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	9
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PPS+30GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M5 or M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

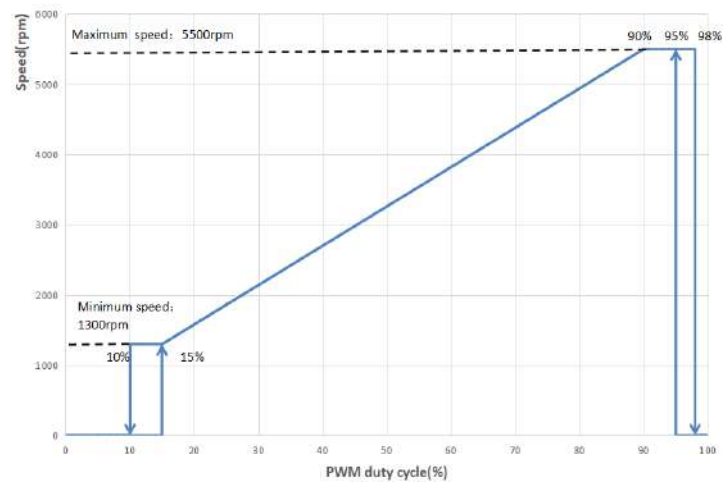
Brand:AMP SERIES HDSCS GRUPP A

Part Number : 1-1670730-1

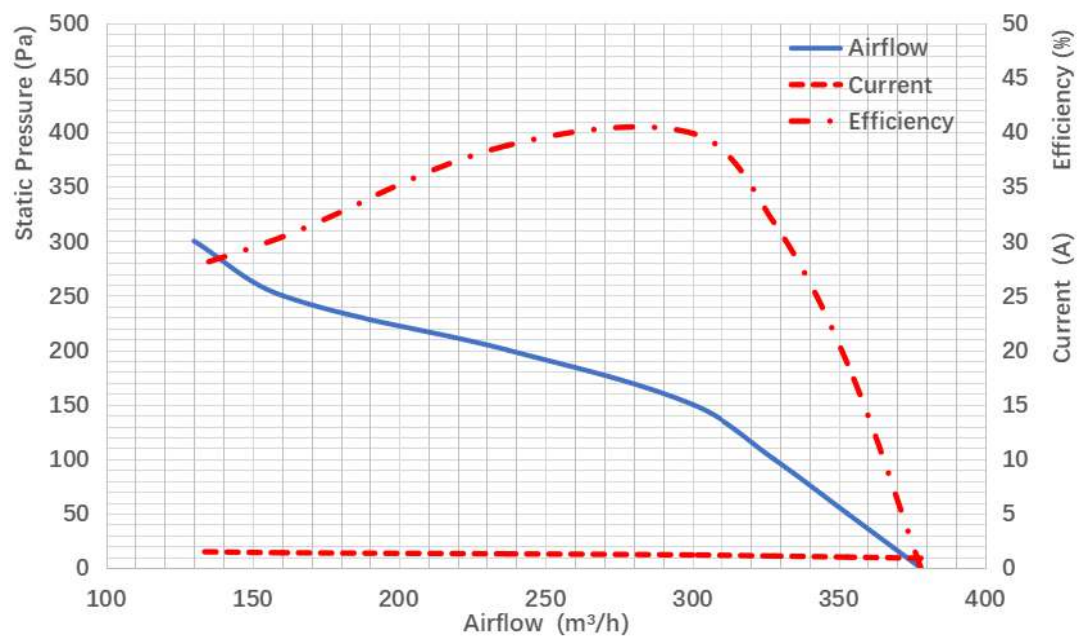
	Identification(*)	+D	-D	PWM/E	/
	Pin Number	1	2	3	/
	Wire Color	Red	Black	White	/
	Sealing p/n	963530-1	963530-1	963530-1	/
	Pin p/n	964269-2	964269-2	964269-2	/
	Section [mm²]	0.5	0.5	0.5	/
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

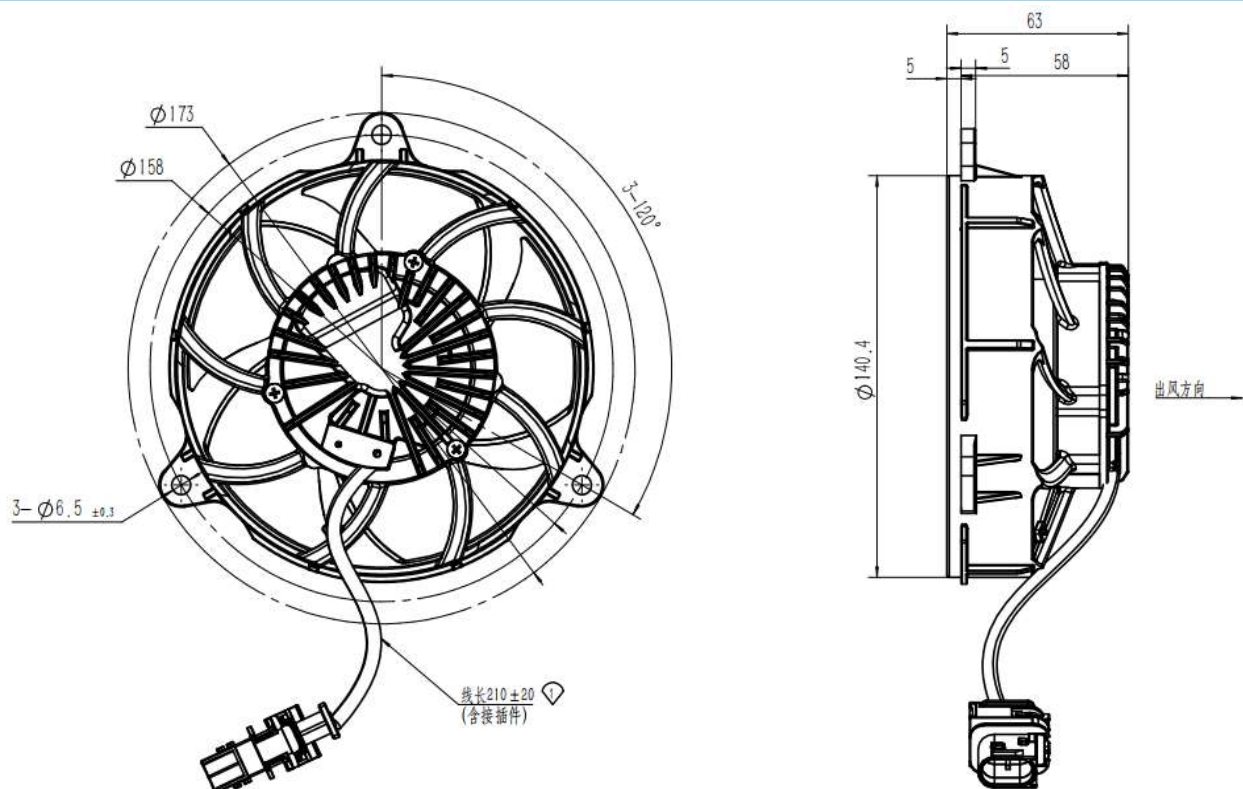
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F75-24BL8040-13S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø130mm	40W	M10

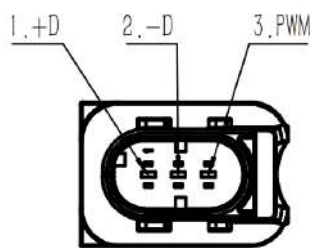
FEATURES | 主要参数

Max fan speed 最大转速	rpm	6200
Min fan speed 最小转速	rpm	1300
Sound pressure level at max speed 最大转速噪音	dBA	65
Weight 重量	kg	0.7
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	10
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PPS+30GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M5 or M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

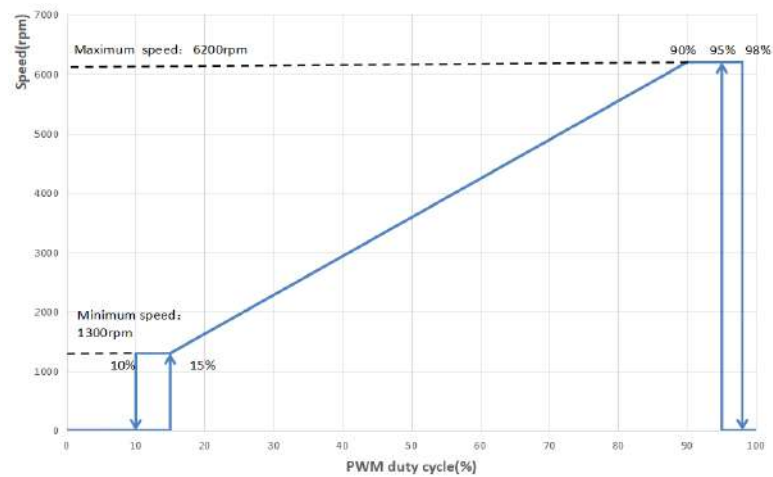
Brand:AMP SERIES HDSCS GRUPP A

Part Number : 1-1670730-1

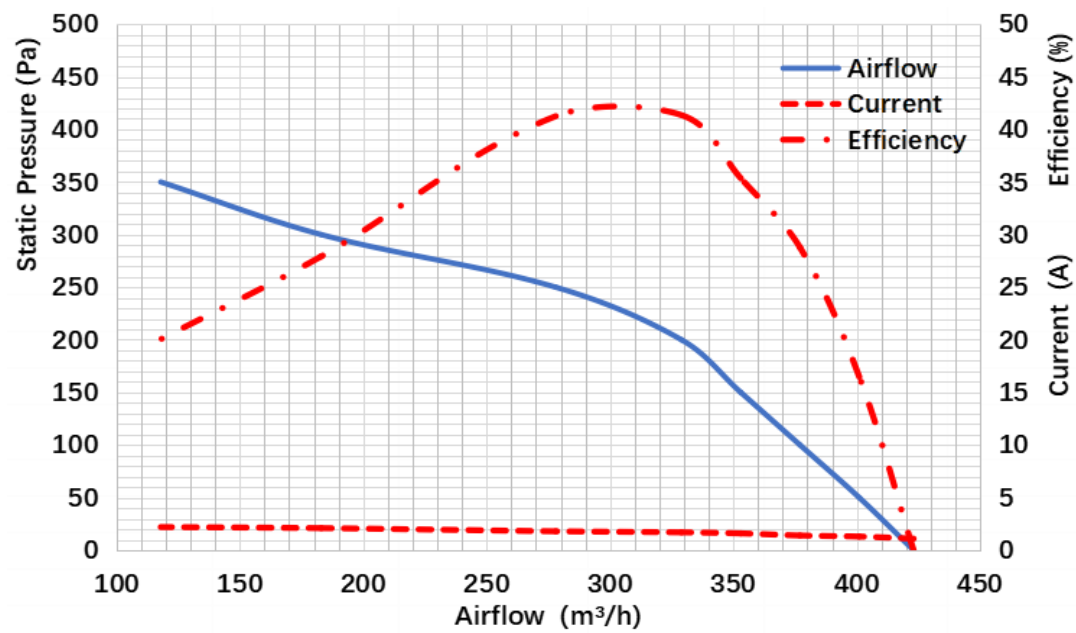
	Identification(*)	+D	-D	PWM/E	/
	Pin Number	1	2	3	/
	Wire Color	Red	Black	White	/
	Sealing p/n	963530-1	963530-1	963530-1	/
	Pin p/n	964269-2	964269-2	964269-2	/
	Section [mm²]	0.5	0.5	0.5	/
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

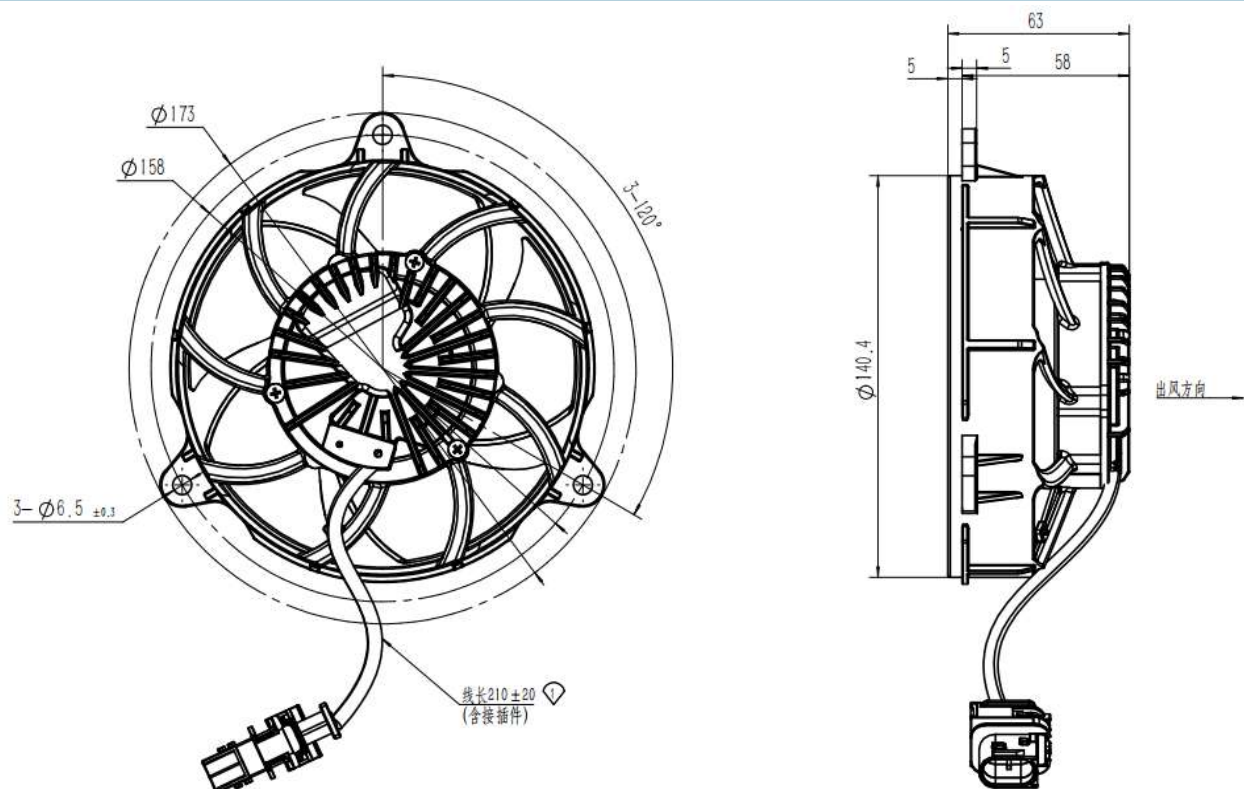
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F75-24BL8080-13S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø130mm	80W	M10

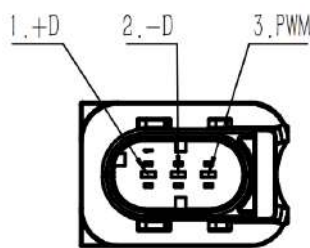
FEATURES | 主要参数

Max fan speed 最大转速	rpm	8000
Min fan speed 最小转速	rpm	1300
Sound pressure level at max speed 最大转速噪音	dBA	71
Weight 重量	kg	0.7
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+105
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PPS+30GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M5 or M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

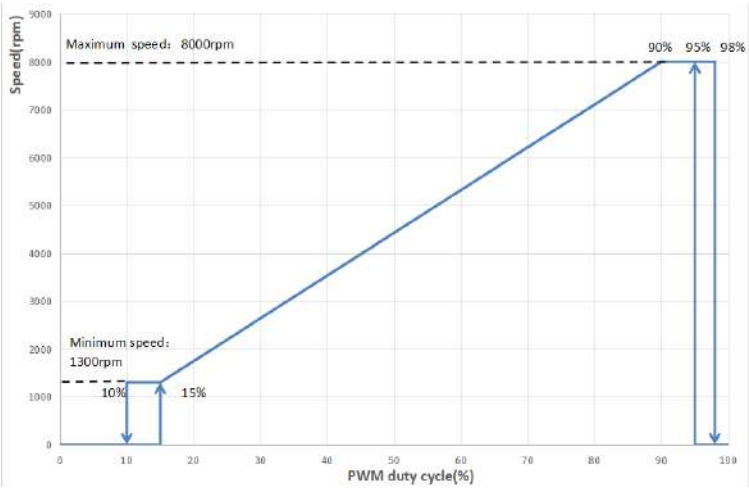
Brand:AMP SERIES HDSCS GRUPP A

Part Number : 1-1670730-1

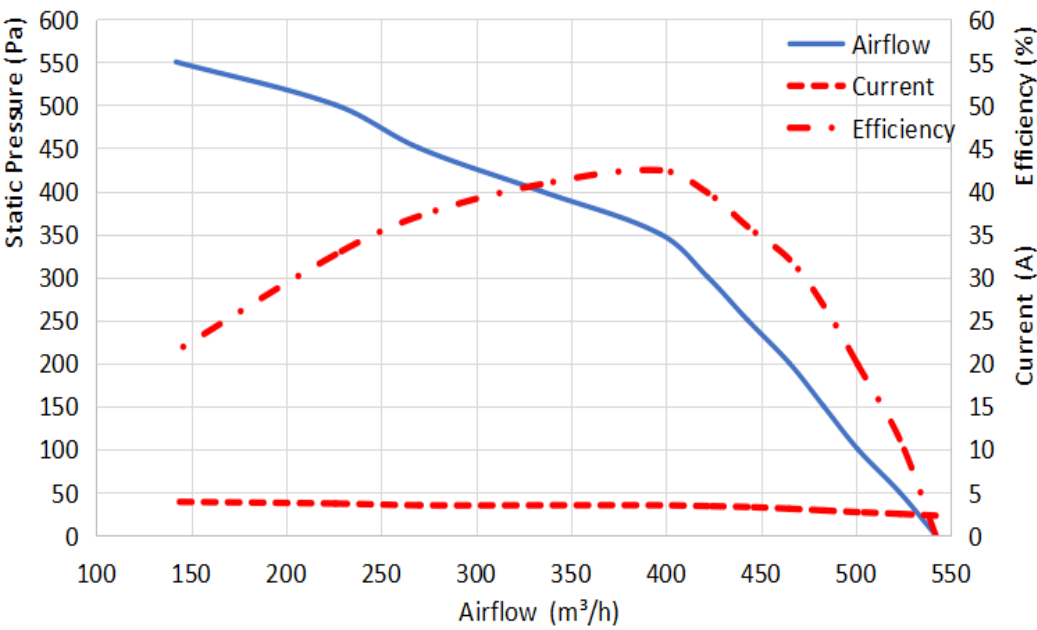
	Identification(*)	+D	-D	PWM/E	/
	Pin Number	1	2	3	/
	Wire Color	Red	Black	White	/
	Sealing p/n	963530-1	963530-1	963530-1	/
	Pin p/n	964269-2	964269-2	964269-2	/
	Section [mm²]	0.5	0.5	0.5	/
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

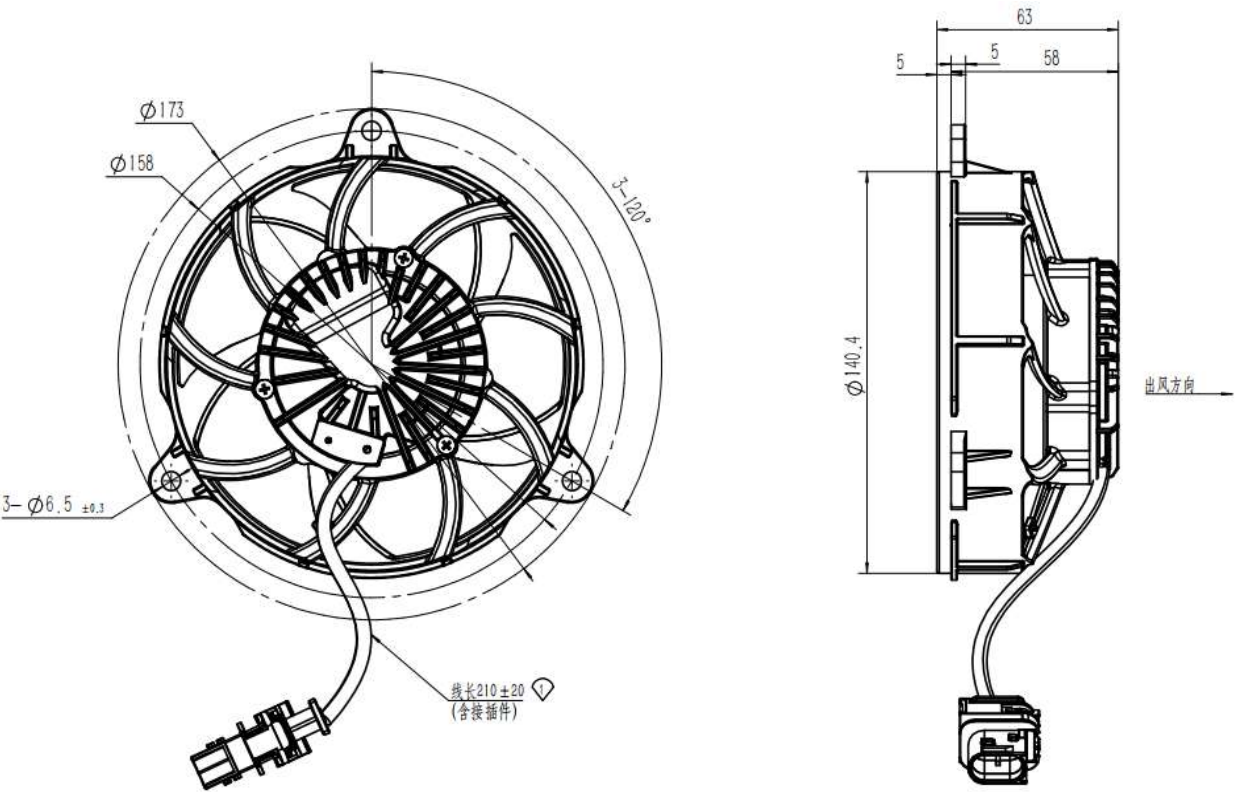
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F84-24BL7160-25S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø225mm	200W	M50

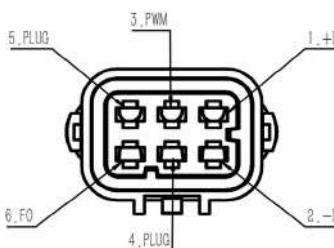
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3900
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	/
Weight 重量	kg	2.0
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	10
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

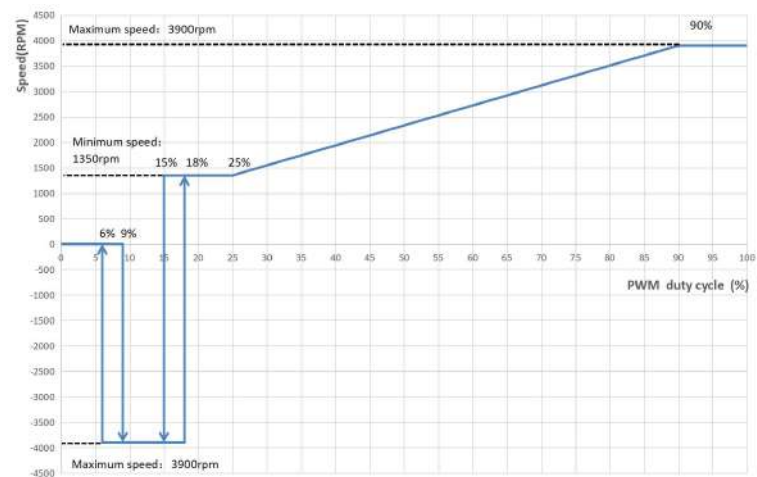
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

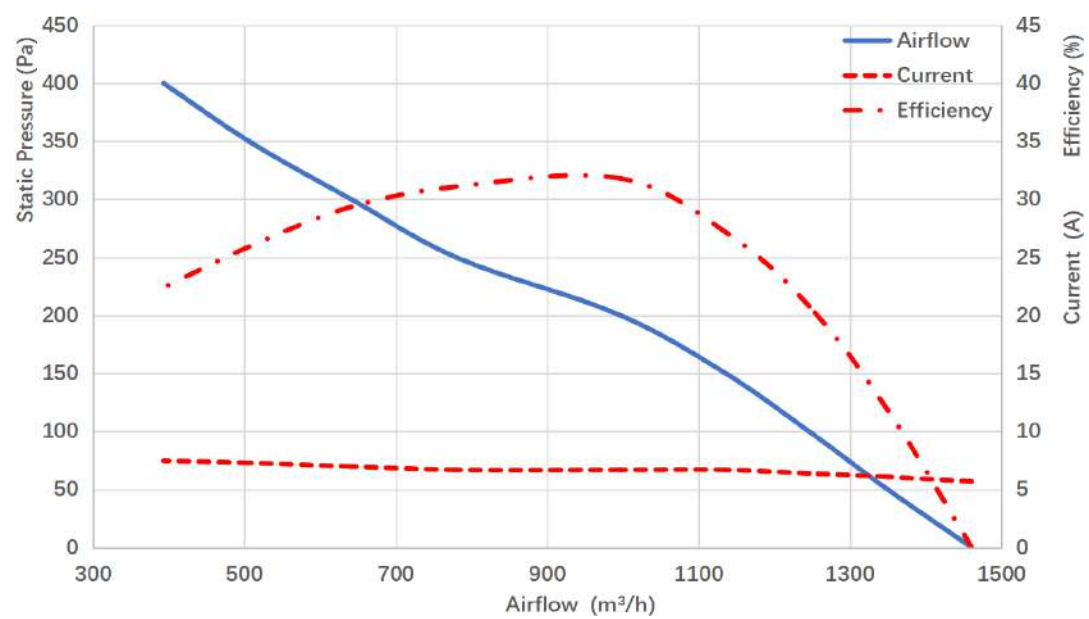
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

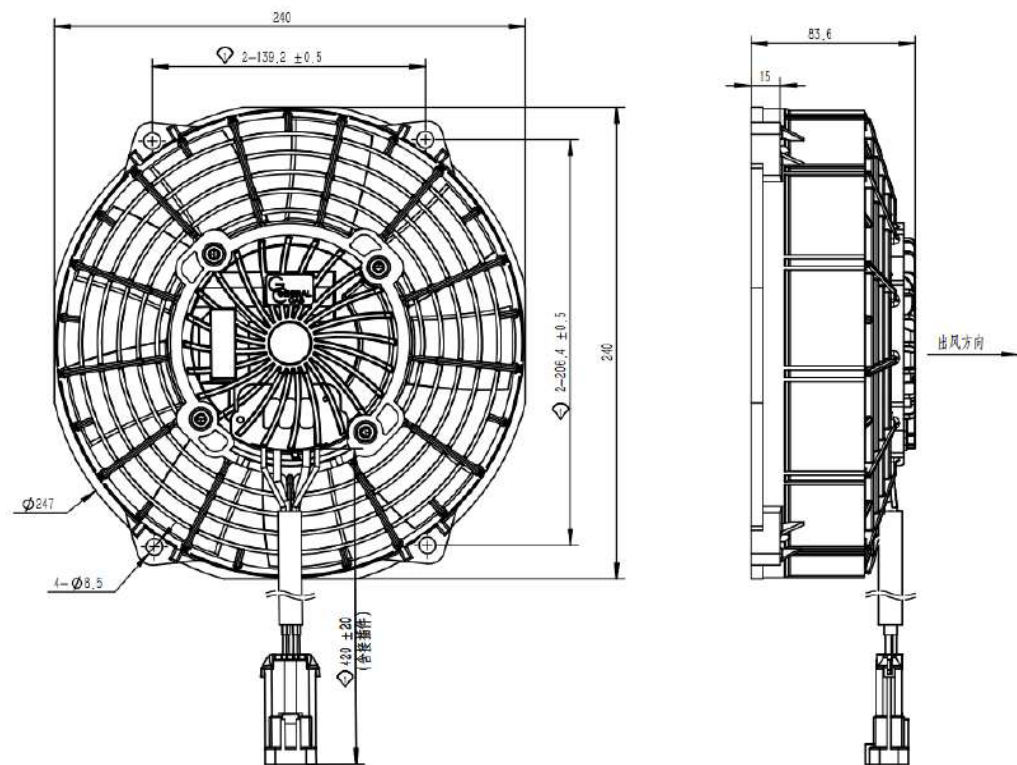
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F84-24BL7201-25S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø225mm	200W	M50

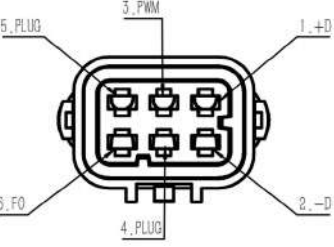
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4000
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	77
Weight 重量	kg	2.0
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	10
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

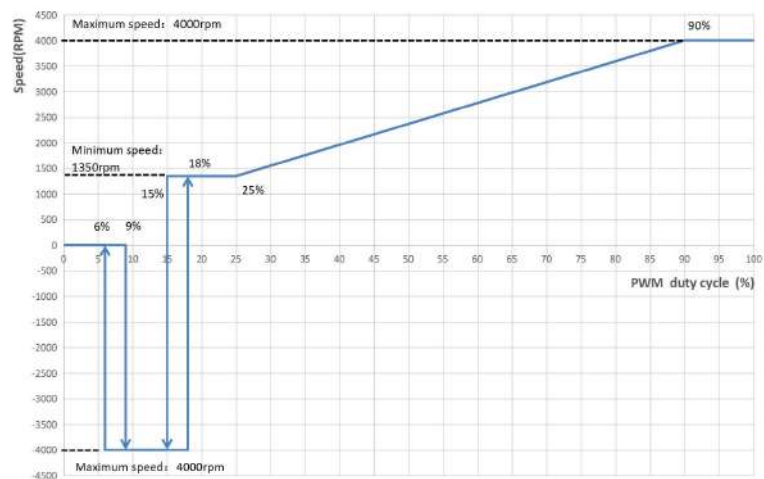
Brand:DELPHI

Part Number : 12185126

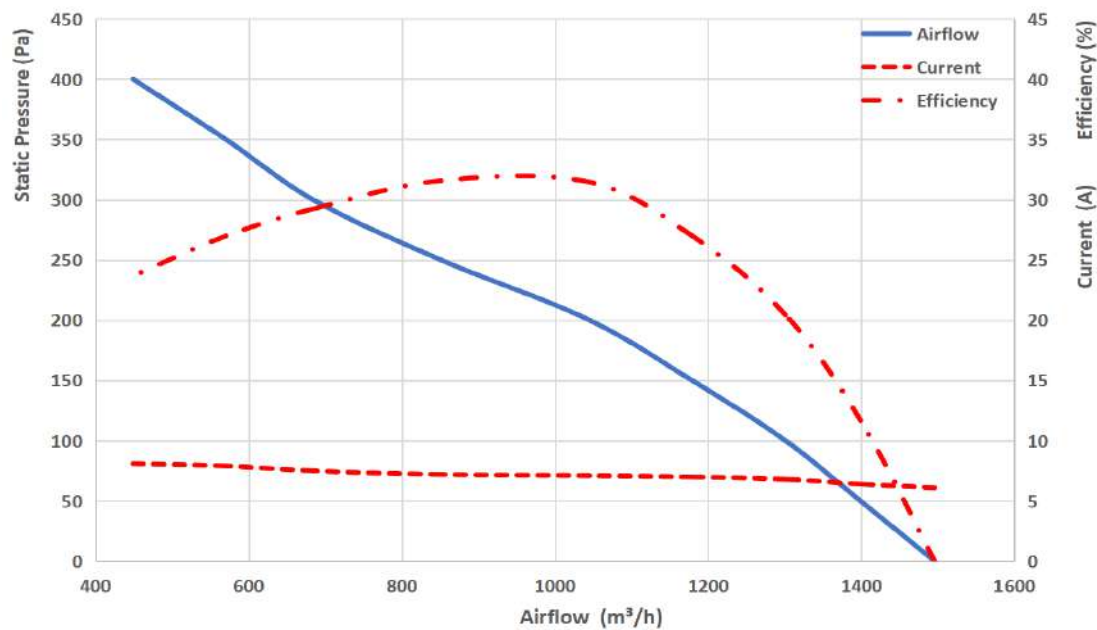
	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

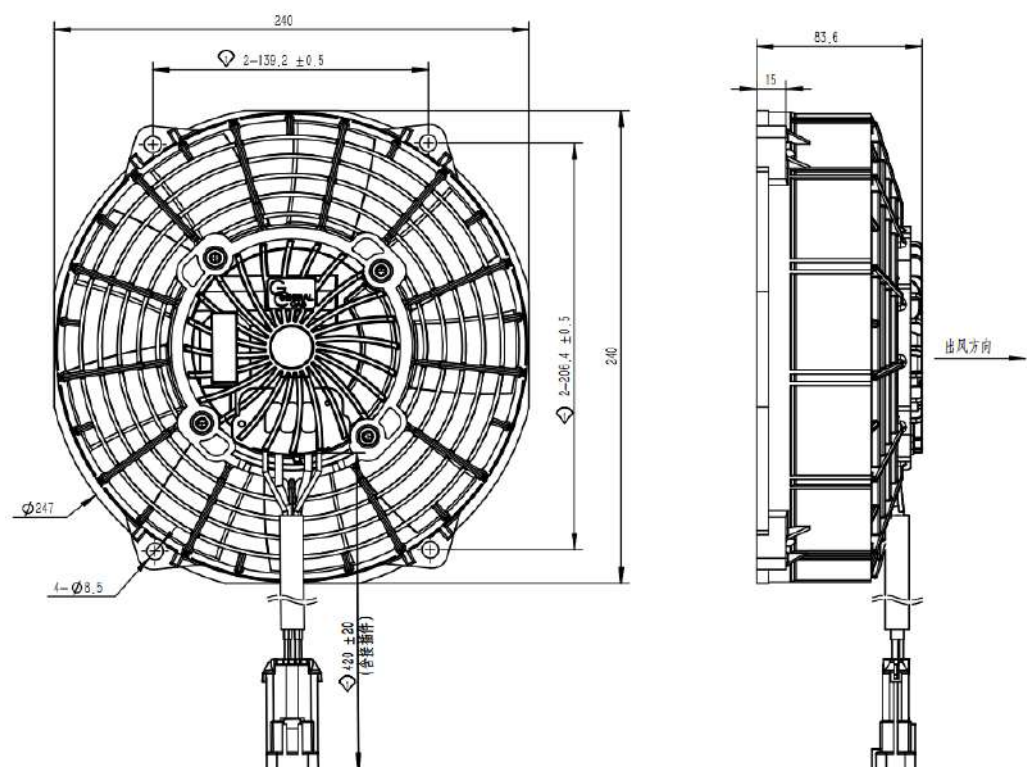
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F84-24BL7203-25S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø225mm	200W	M50

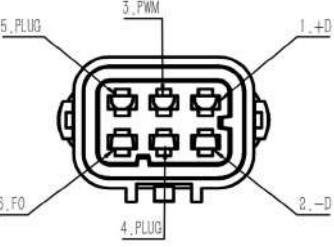
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4000
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	77
Weight 重量	kg	2.0
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	10
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

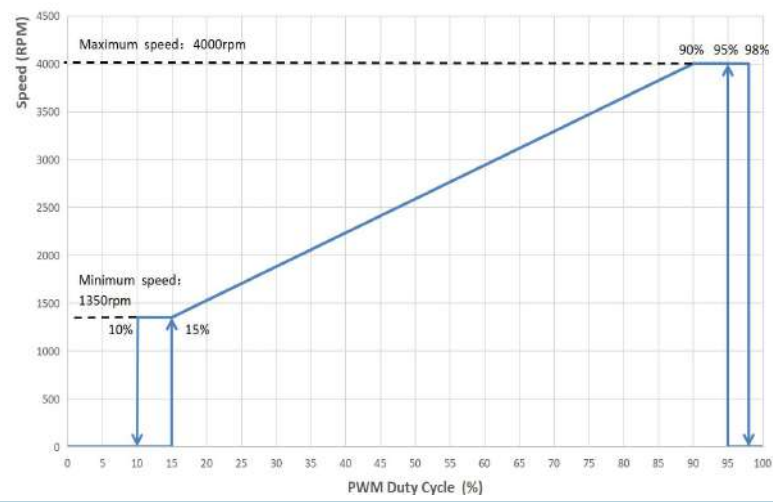
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

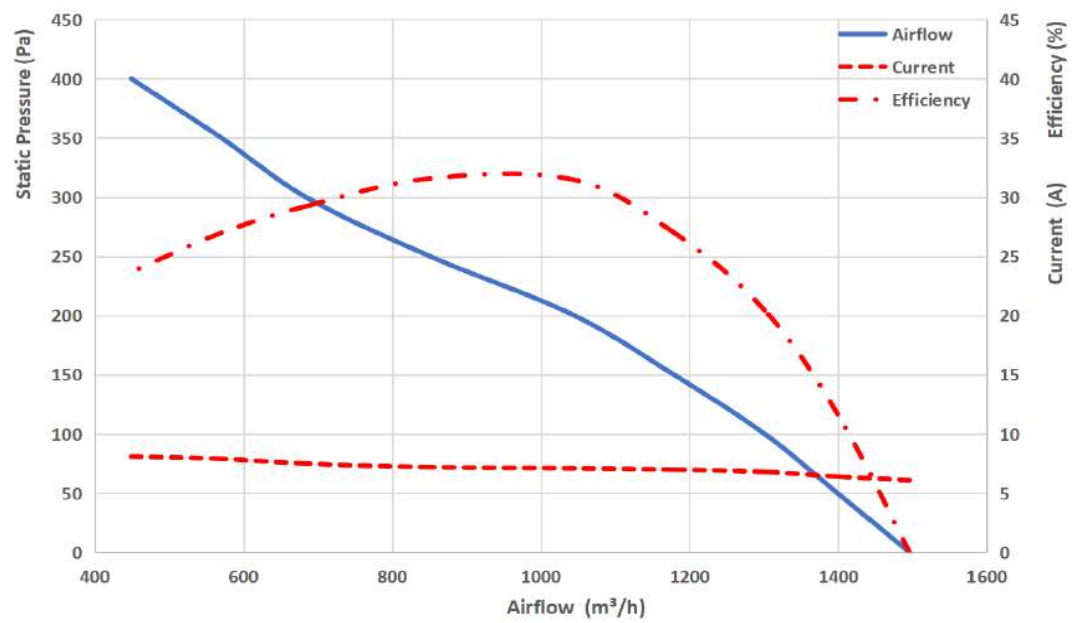
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

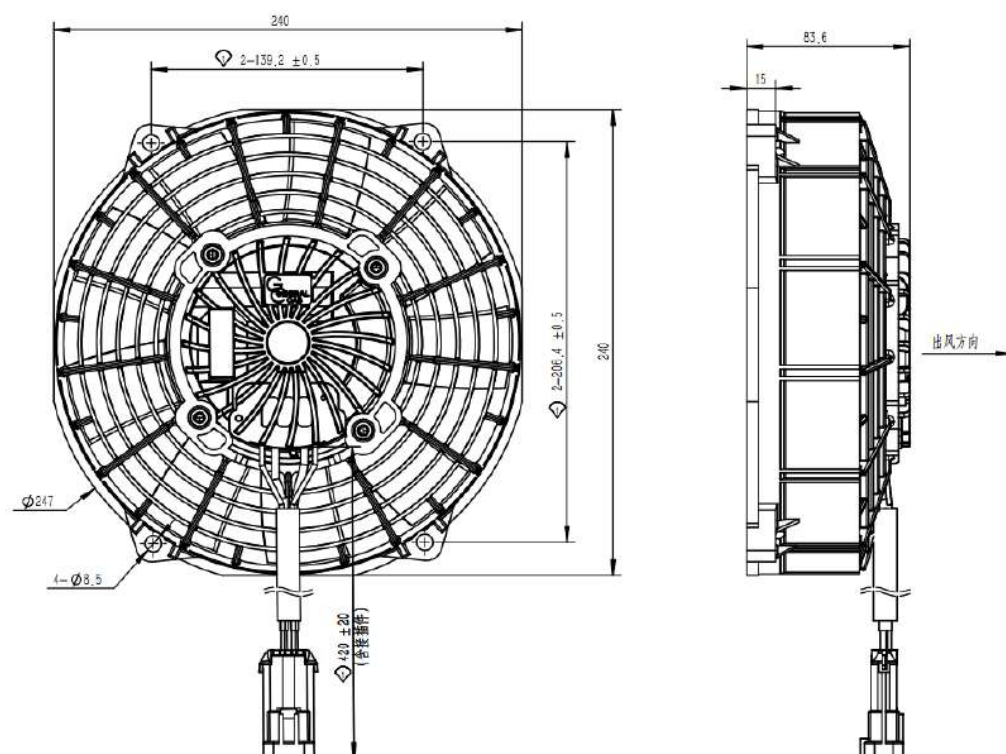
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F84-24BL7260-25S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø225mm	260W	M50

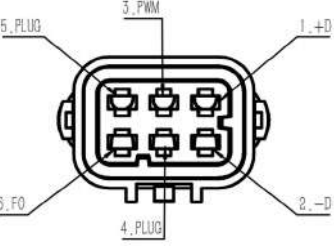
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4400
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	78
Weight 重量	kg	2.0
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

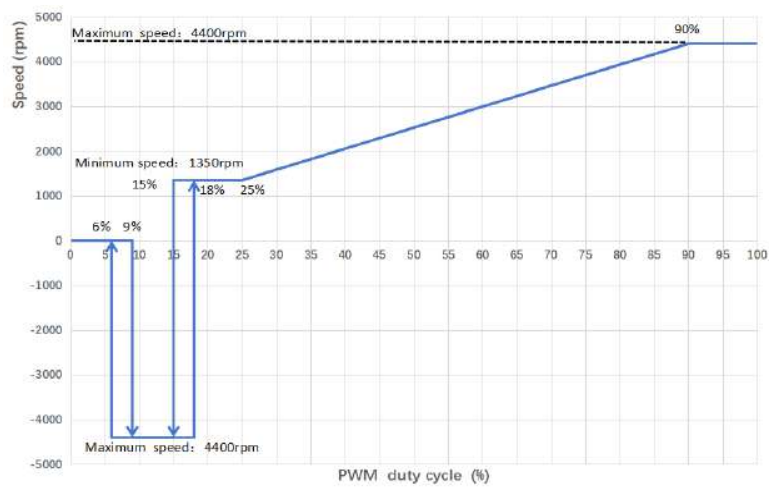
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

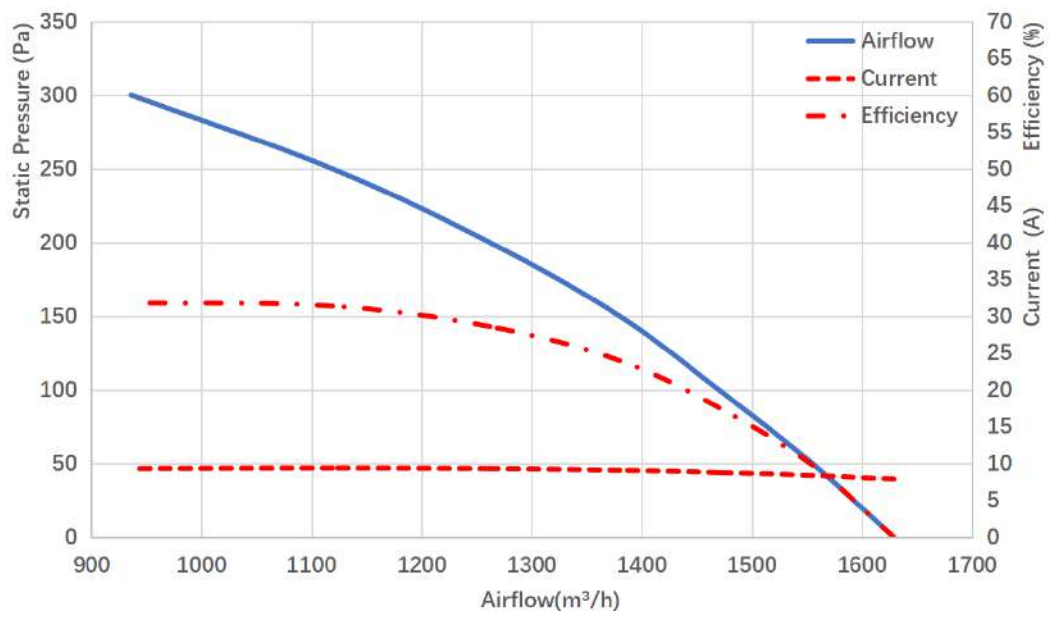
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

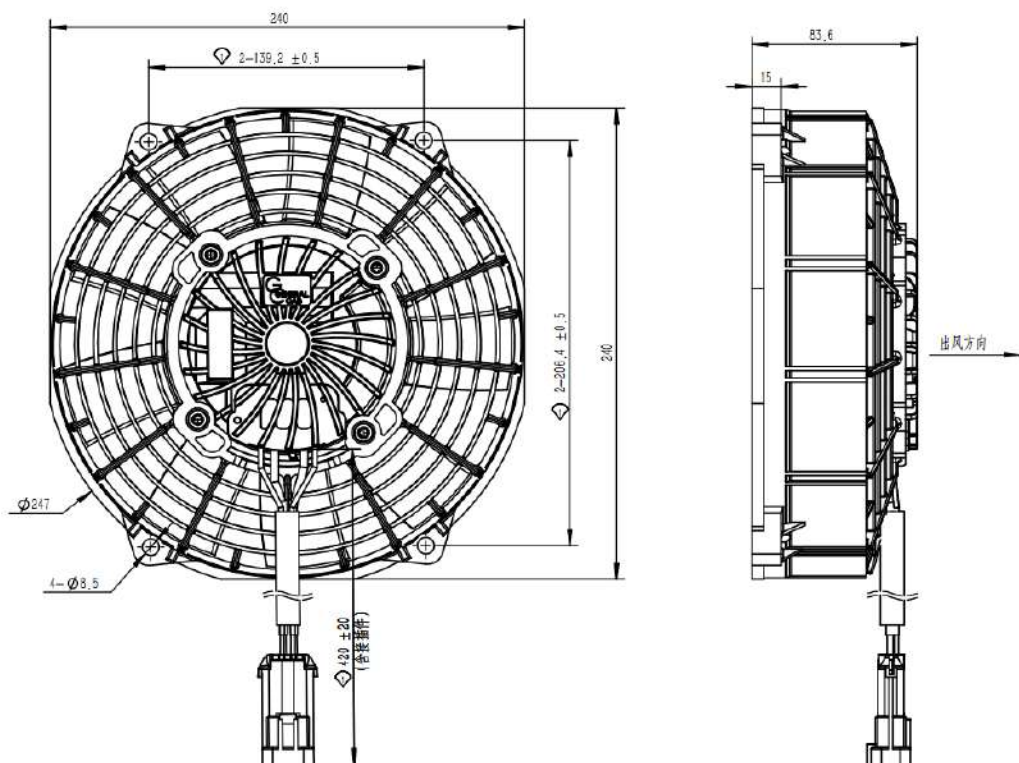
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F83B-24BL7356-28S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø255mm	300W	M50

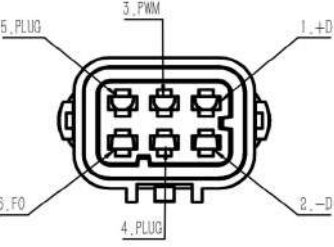
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3750
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	76.5
Weight 重量	kg	2.1
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M8	
Mounting torque 装配力矩	4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

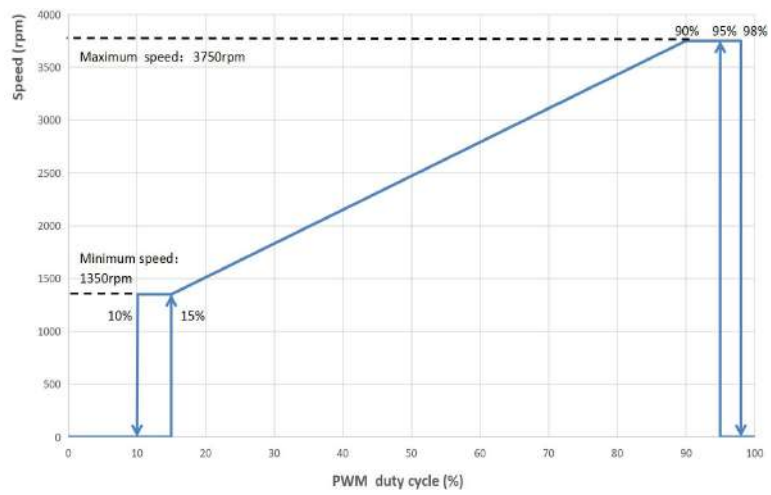
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	2.5	2.5	0.75	0.75
Note: Never handle the fan module via the cable harness					

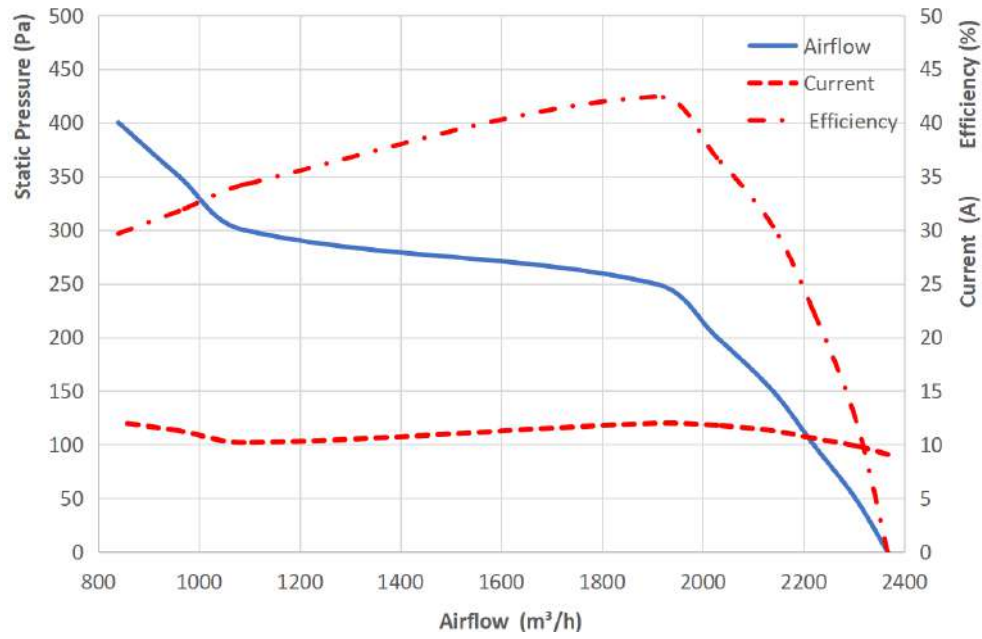
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

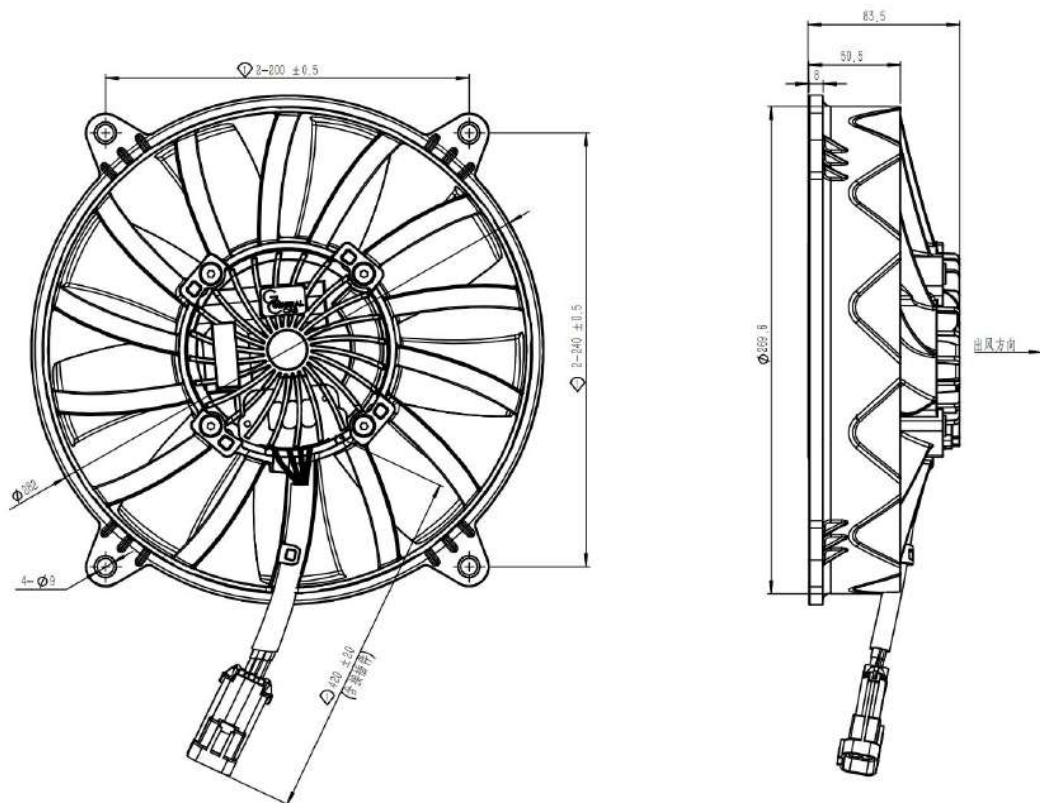
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F83B-24BL7358-28S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø255mm	300W	M50

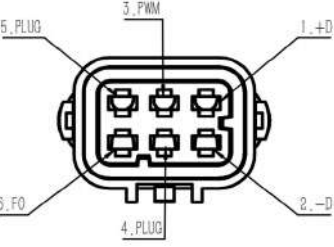
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3750
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	76.5
Weight 重量	kg	2.1
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M8	
Mounting torque 装配力矩	4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

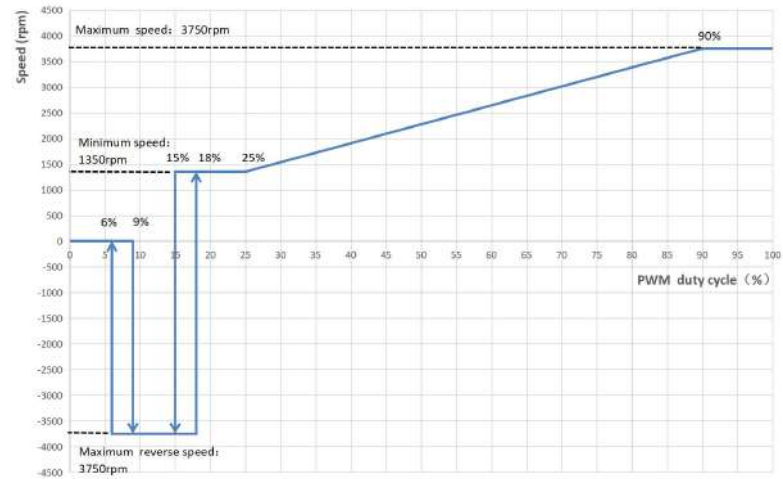
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	2.5	2.5	0.75	0.75
Note: Never handle the fan module via the cable harness					

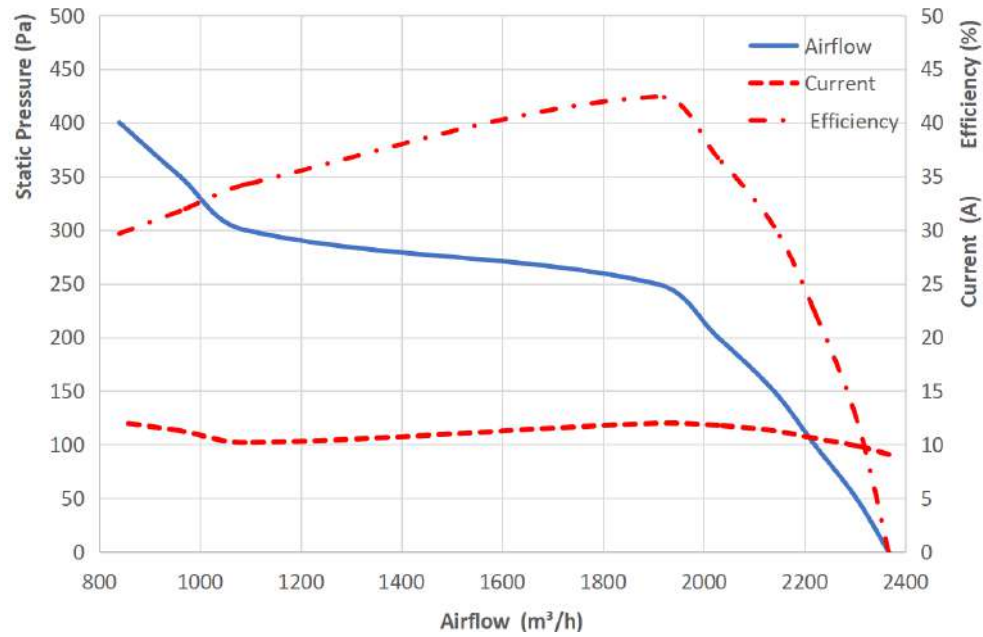
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

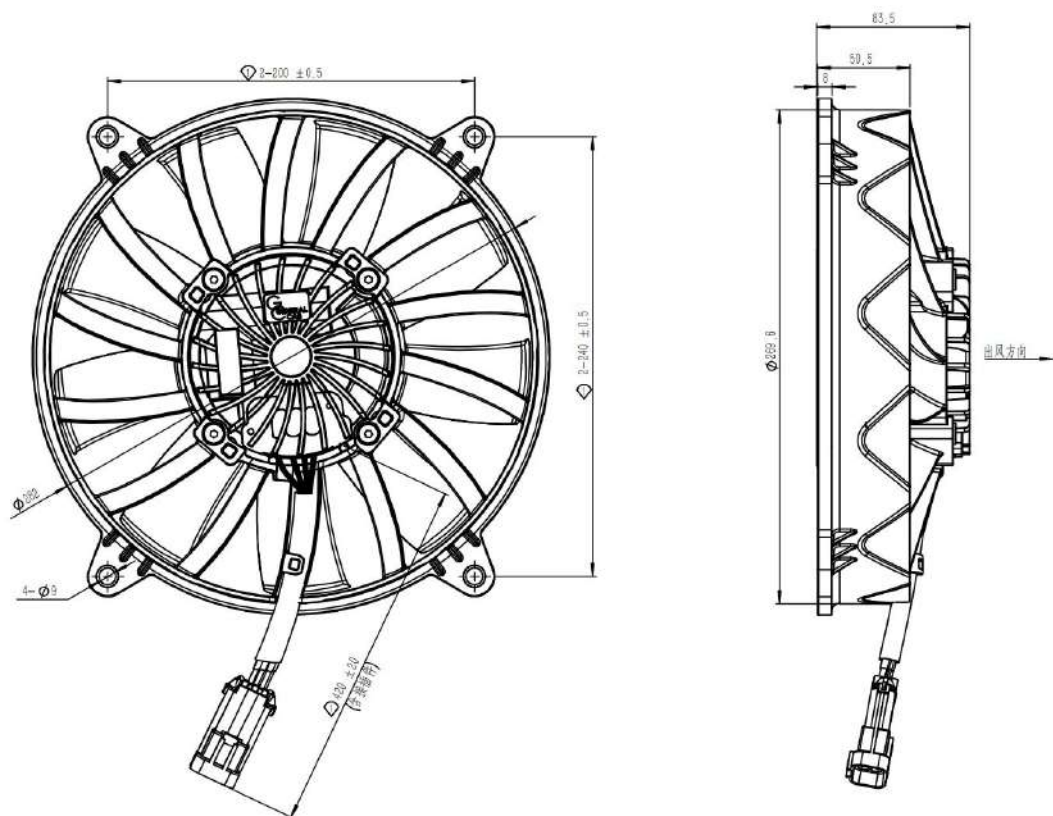
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F83B-24BL7406-28S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø255mm	400W	M50

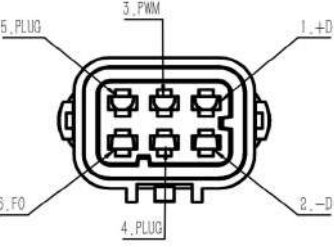
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	78
Weight 重量	kg	2.1
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	13
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M8	
Mounting torque 装配力矩	4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

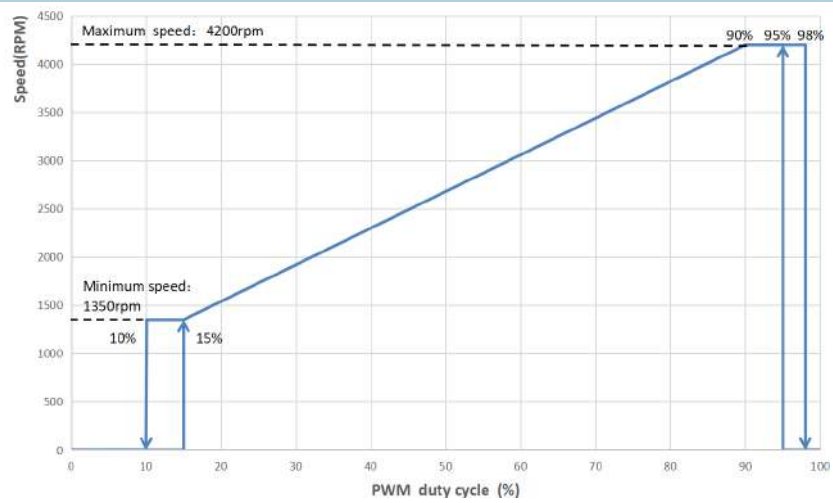
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	2.5	2.5	0.75	0.75
Note: Never handle the fan module via the cable harness					

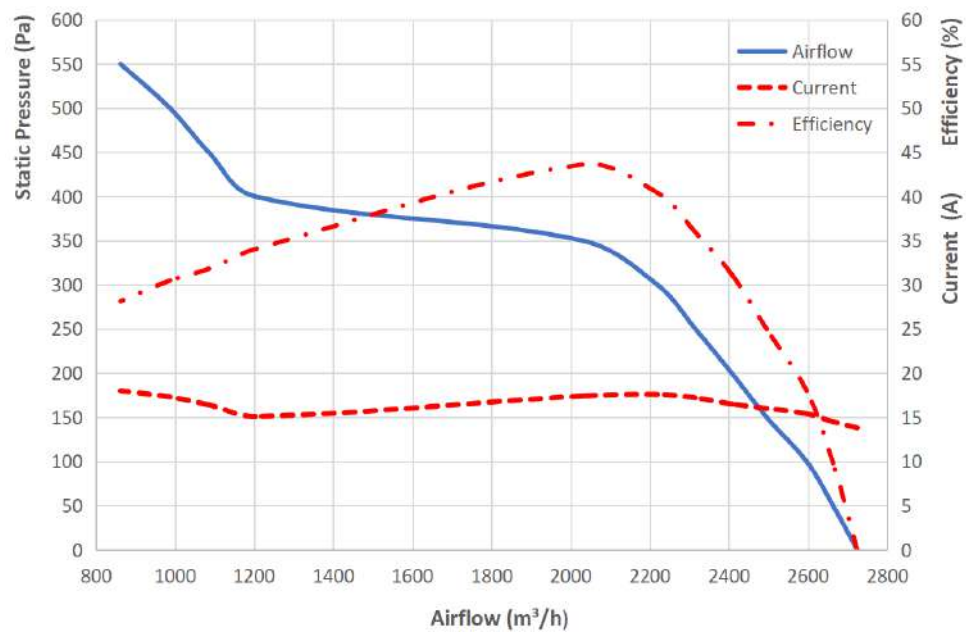
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

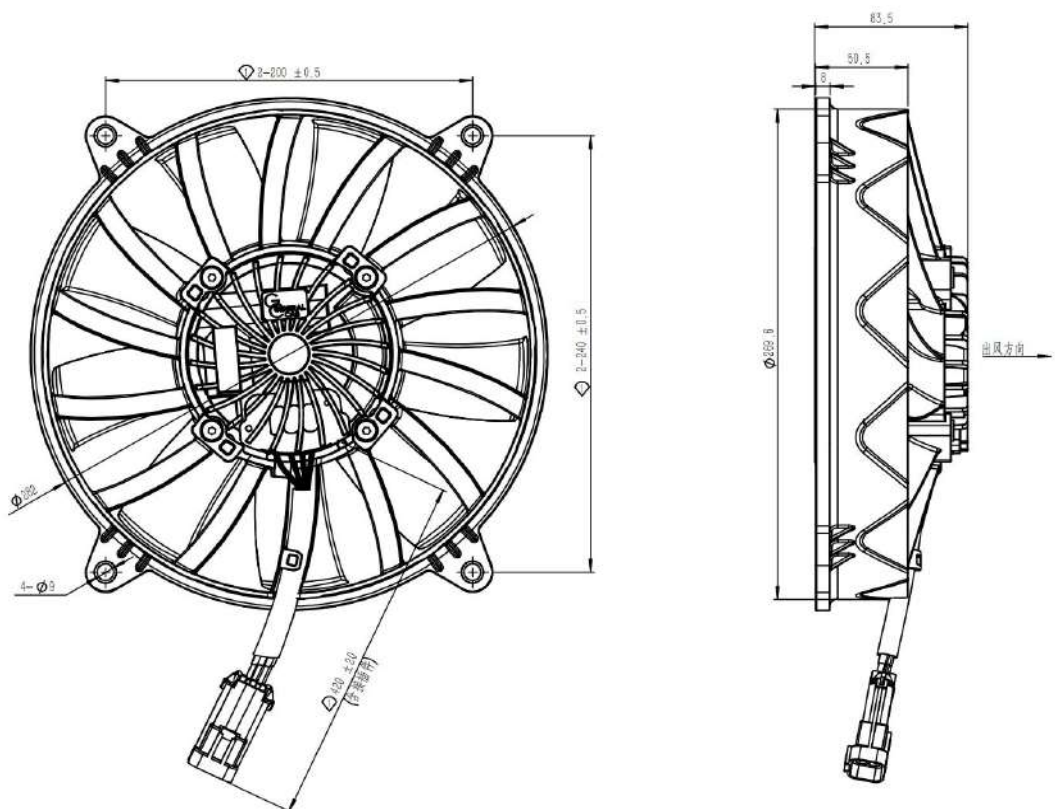
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F83B-24BL7418-28S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø255mm	400W	M50

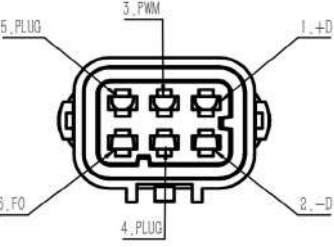
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	78
Weight 重量	kg	2.1
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	13
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M8	
Mounting torque 装配力矩	4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	2.5	2.5	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



F83B-24BL8618-28S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø255mm	600W	M30

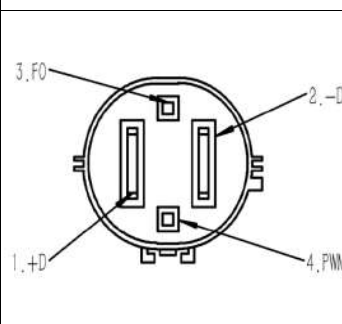
FEATURES | 主要参数

Max fan speed 最大转速	rpm	5000
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	84
Weight 重量	kg	2.2
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	15
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M8	
Mounting torque 装配力矩	4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

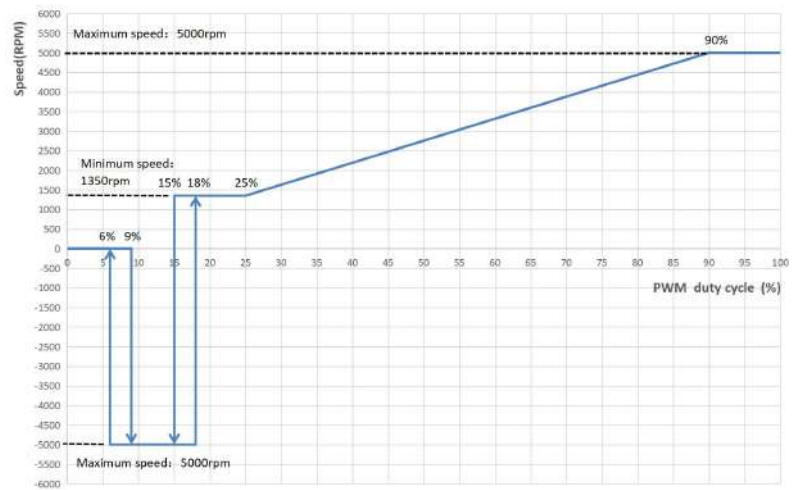
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

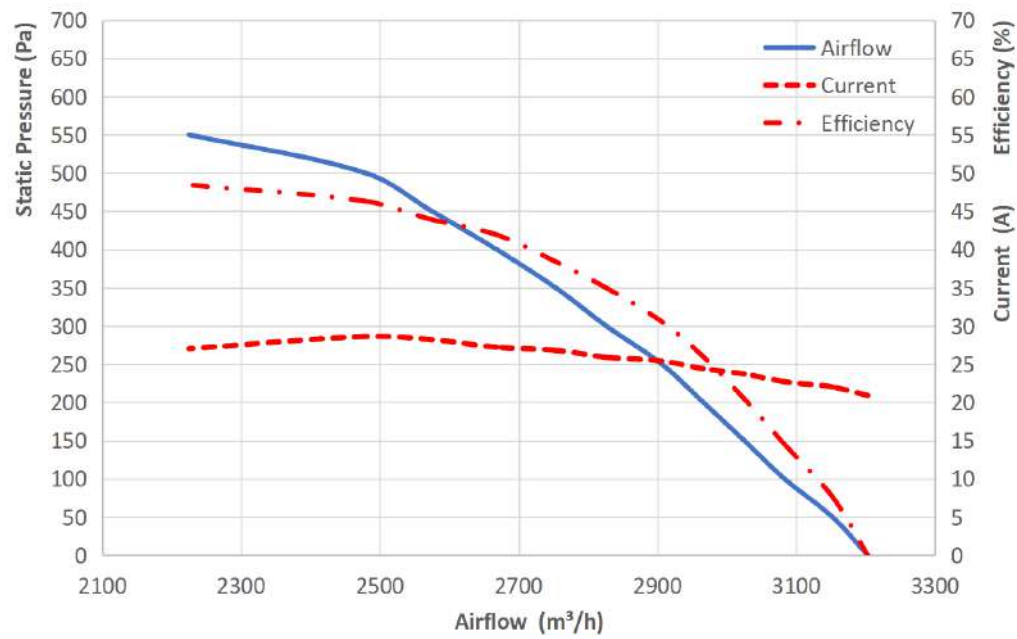
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

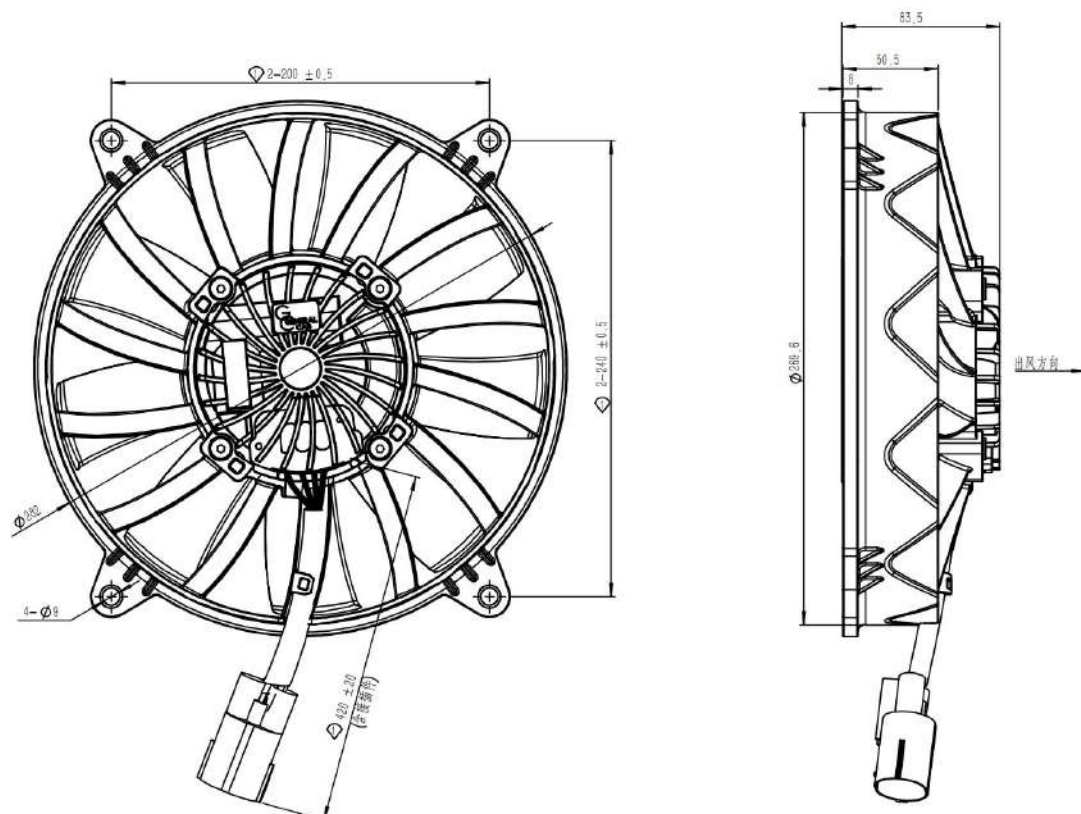
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F83B-24BL8818-28S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø255mm	800W	M30

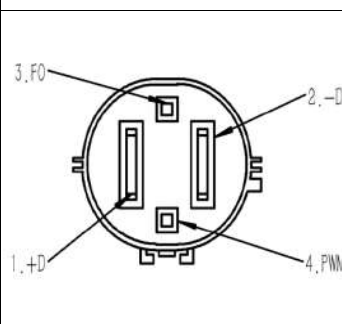
FEATURES | 主要参数

Max fan speed 最大转速	rpm	5500
Min fan speed 最小转速	rpm	1350
Sound pressure level at max speed 最大转速噪音	dBA	86.5
Weight 重量	kg	2.2
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	18
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M8	
Mounting torque 装配力矩	4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

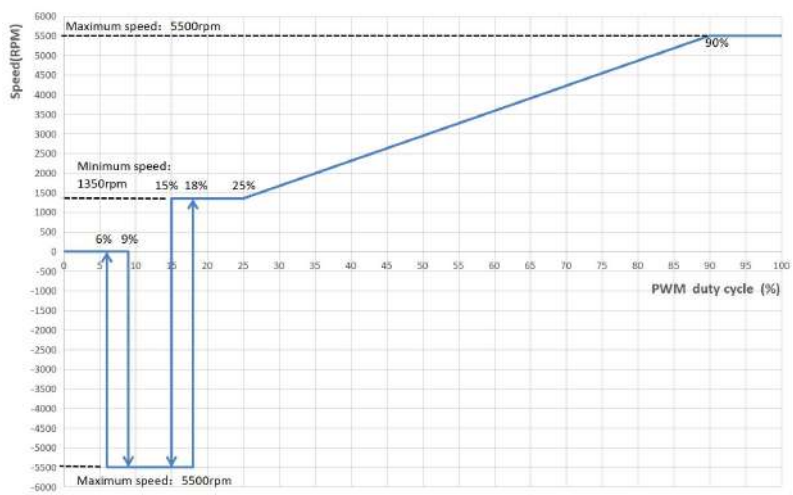
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

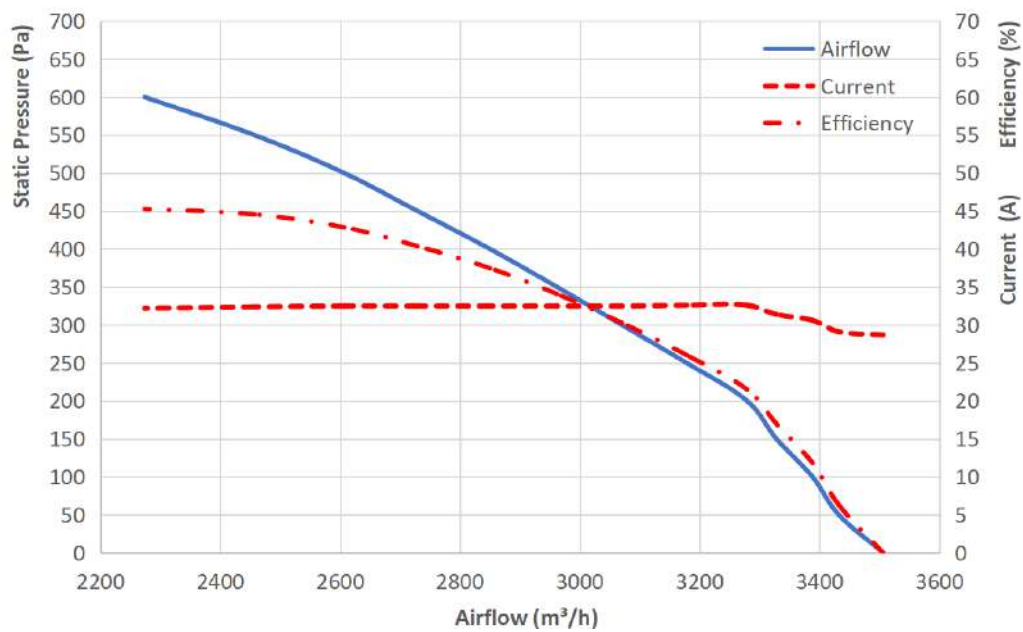
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

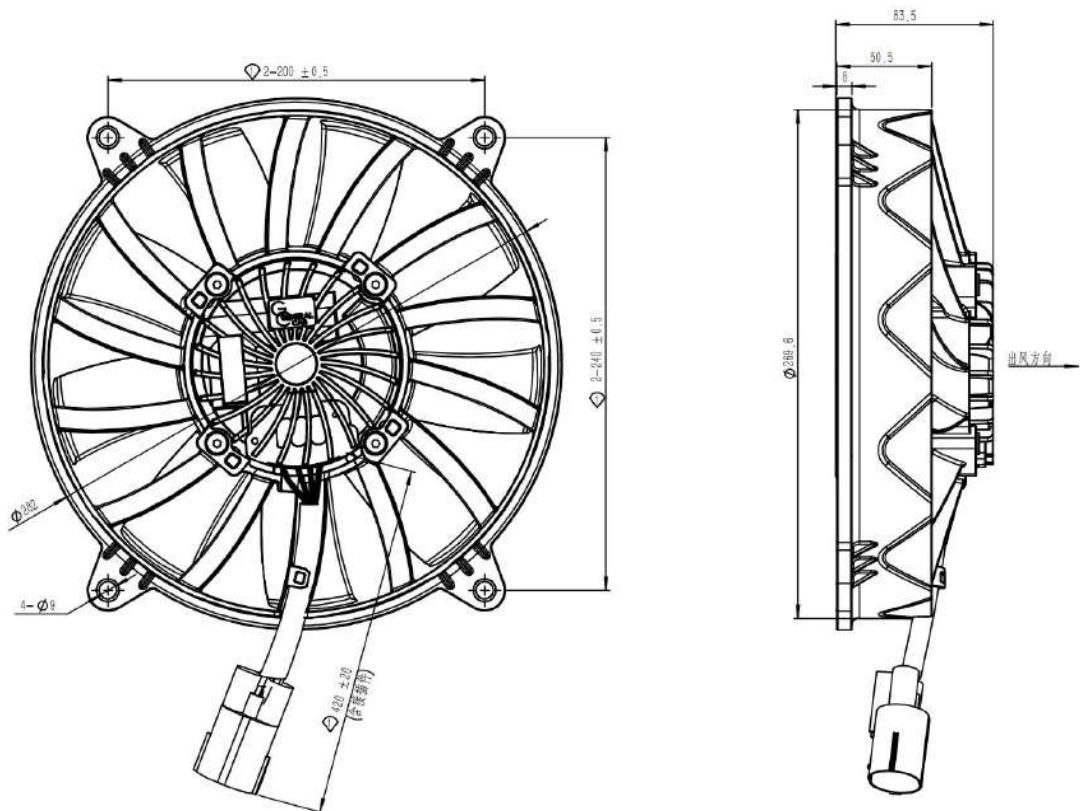
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82-24BL7302-31S		
FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	300W	M50

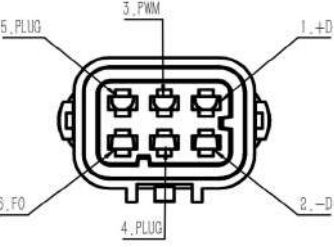
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3500
Min fan speed 最小转速	rpm	1000
Sound pressure level at max speed 最大转速噪音	dBA	79
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	11
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

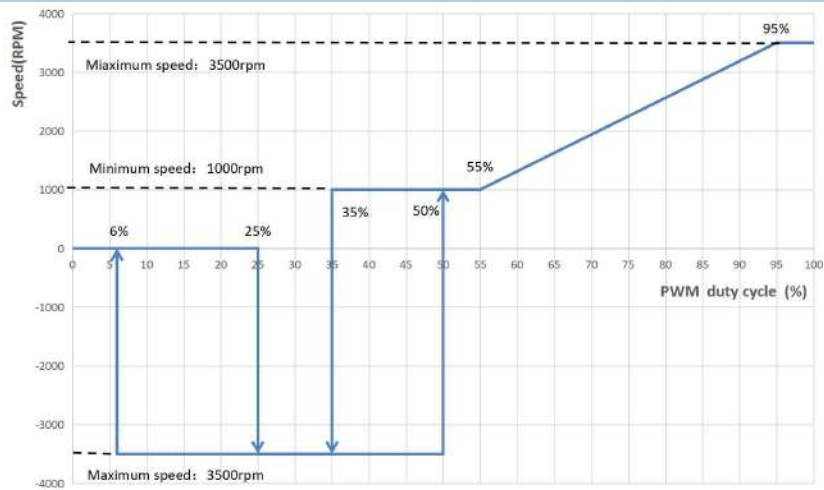
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

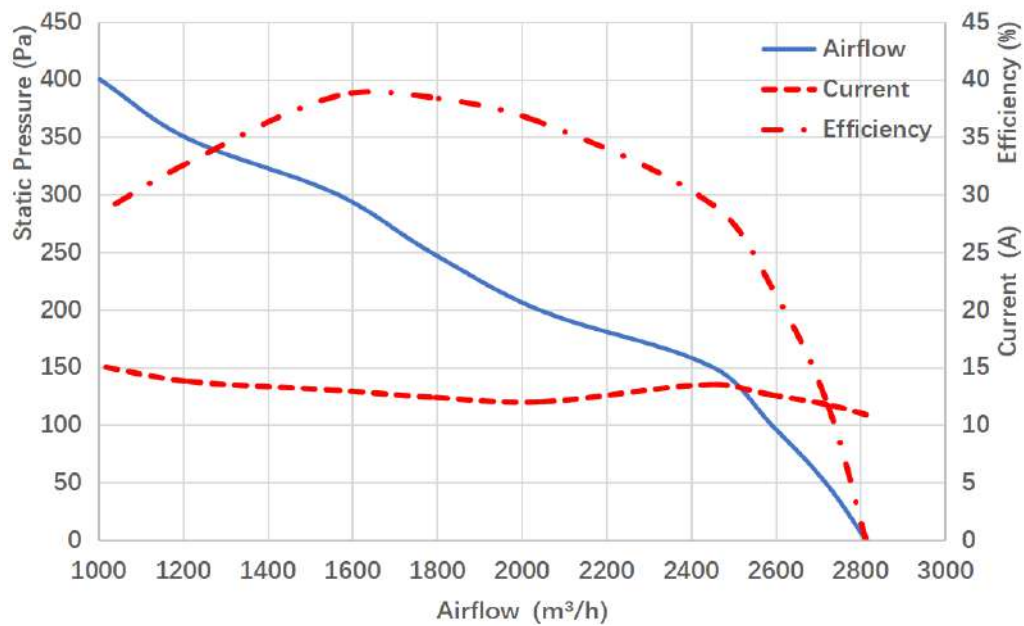
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

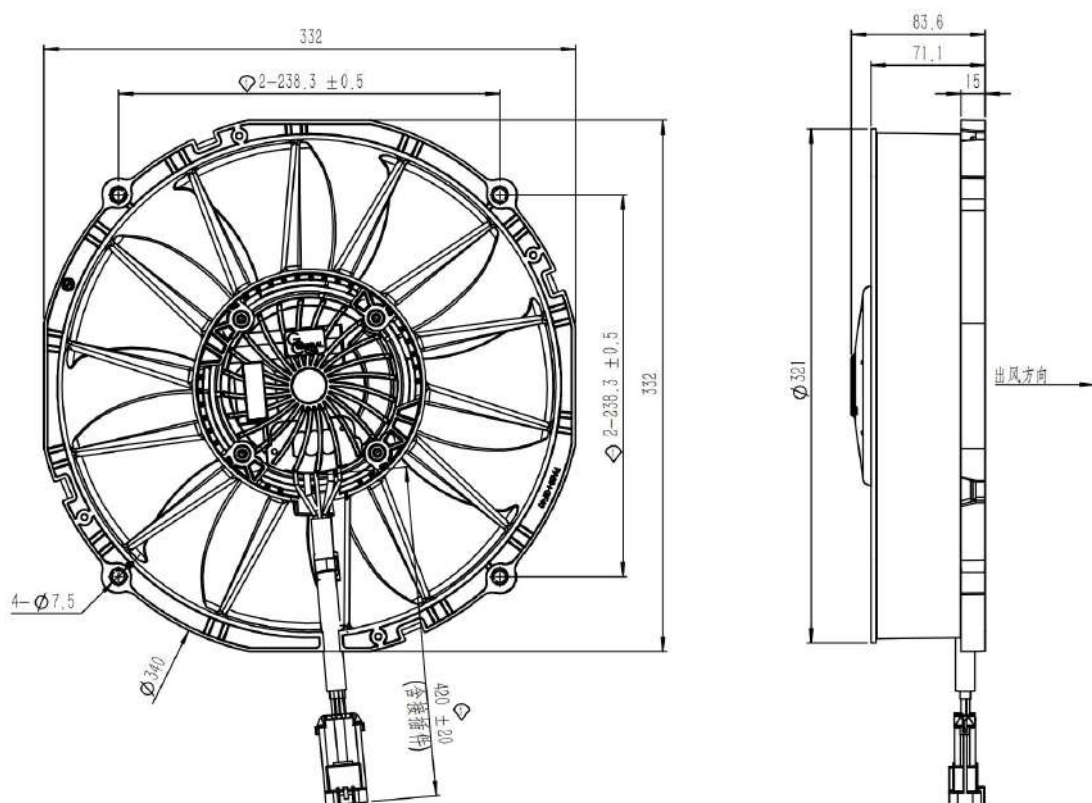
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82-24BL7525-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M50

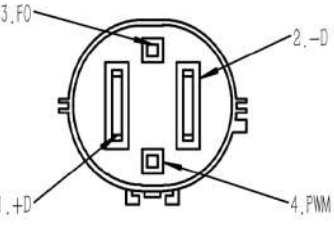
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1250
Sound pressure level at max speed 最大转速噪音	dBA	83
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

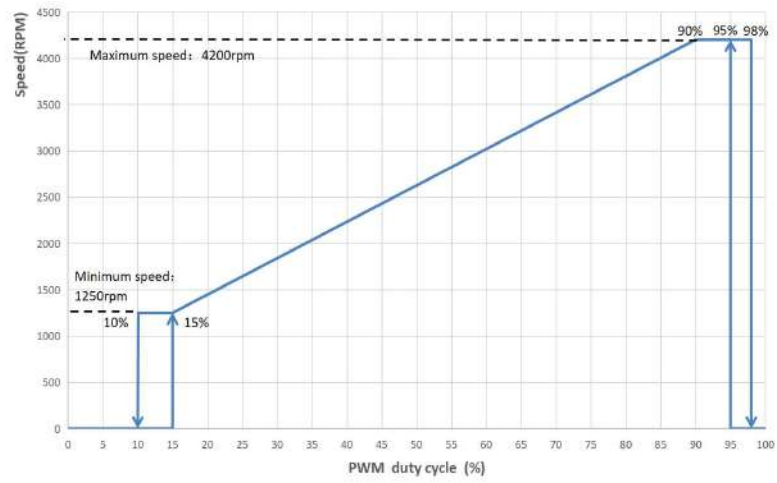
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

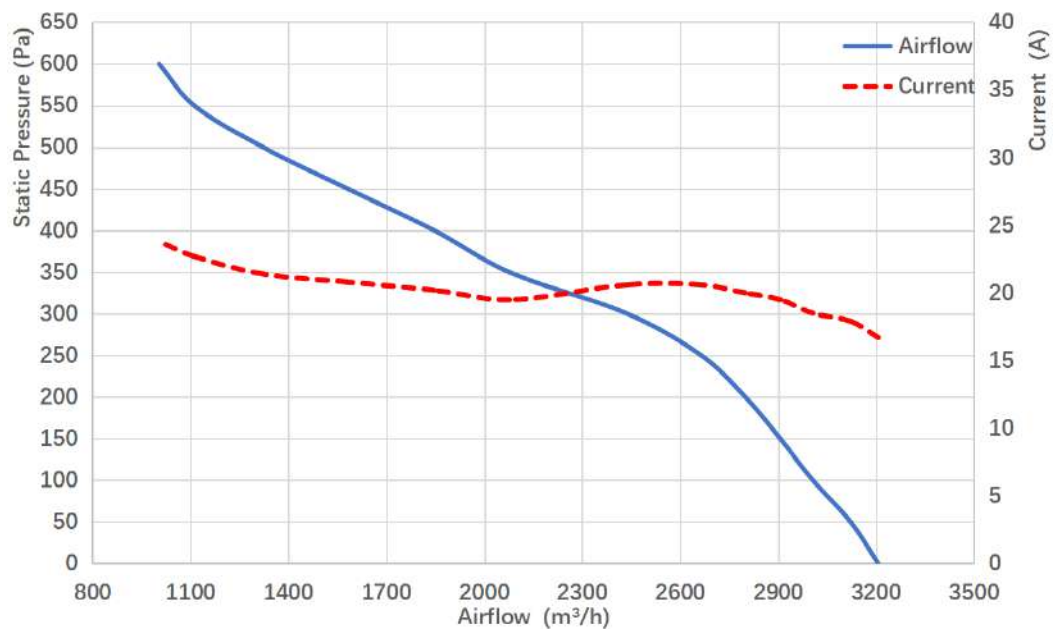
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

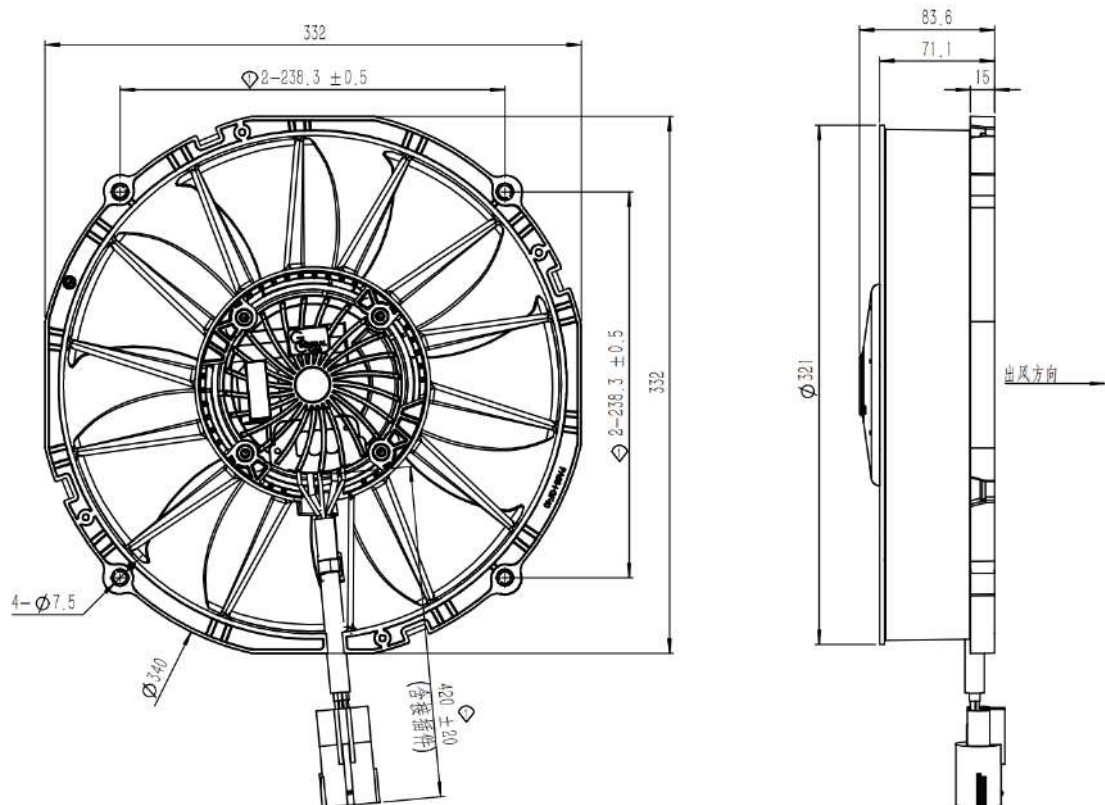
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82-24BL7527-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M50

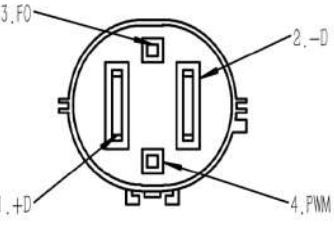
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1250
Sound pressure level at max speed 最大转速噪音	dBA	83
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

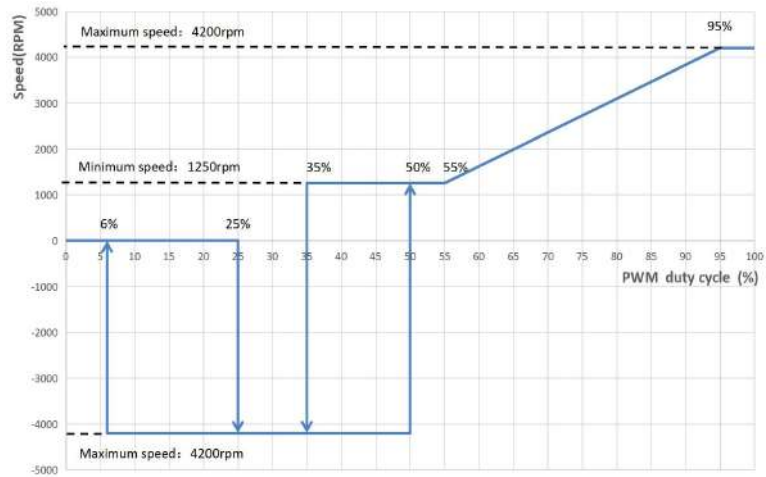
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

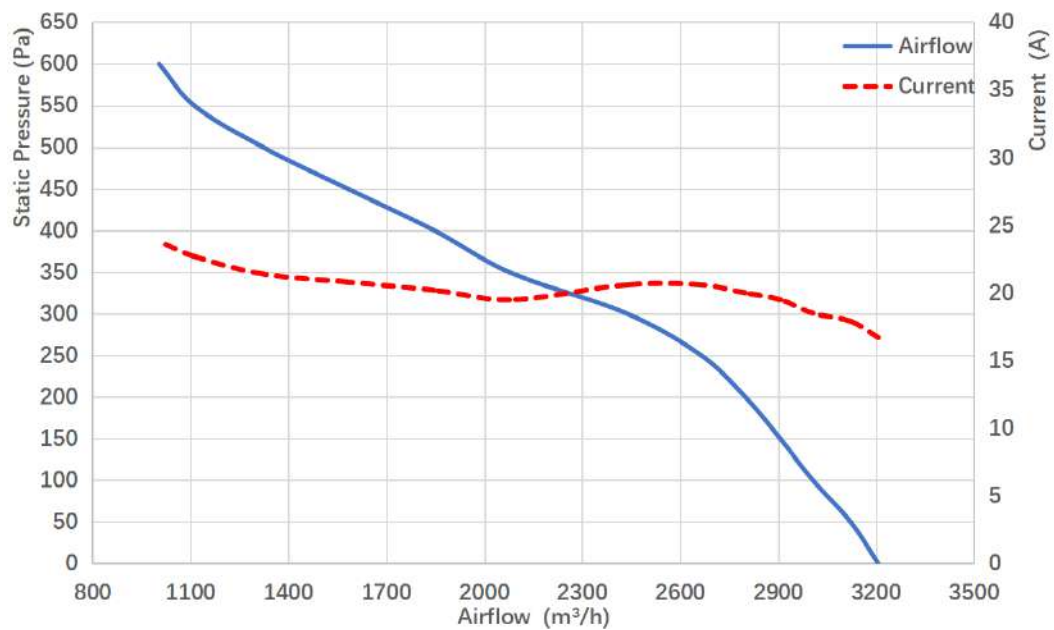
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

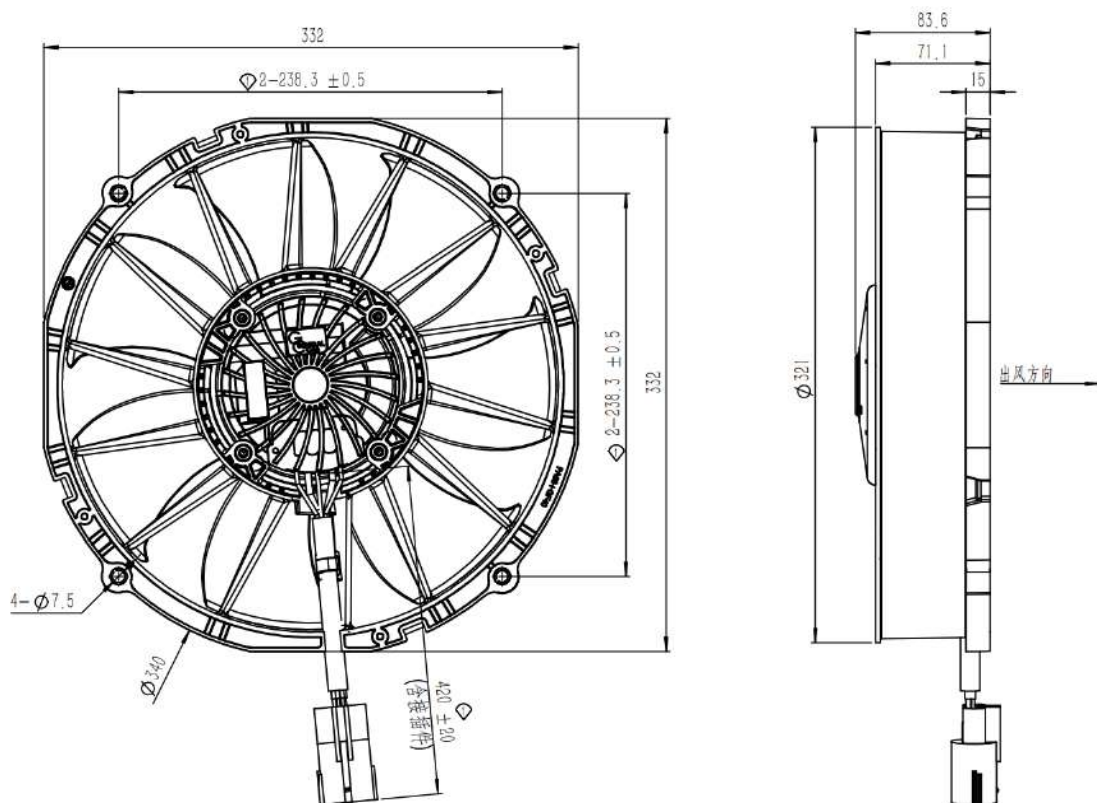
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82-24BL8601-31S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	600W	M30

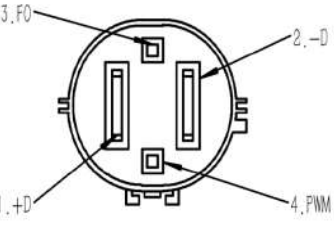
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4300
Min fan speed 最小转速	rpm	900
Sound pressure level at max speed 最大转速噪音	dBA	/
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	15
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

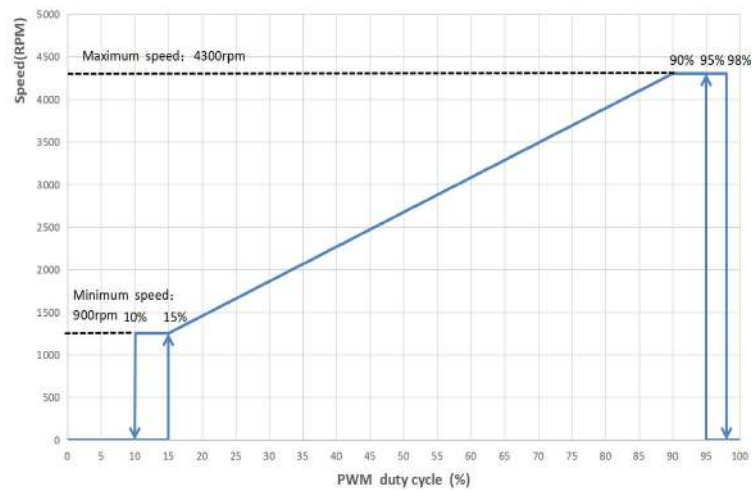
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

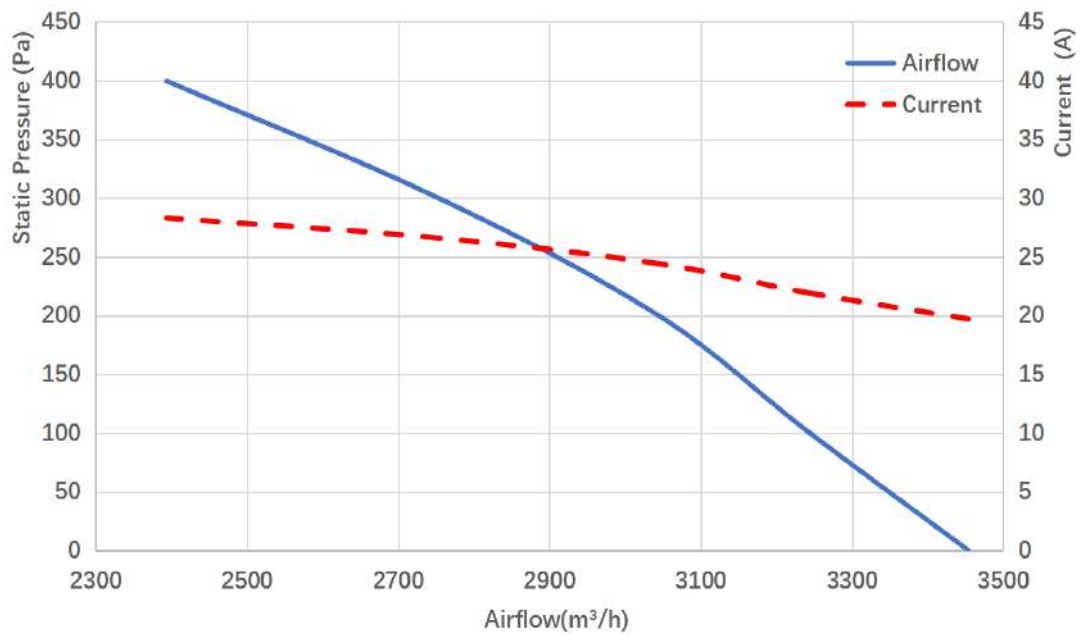
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

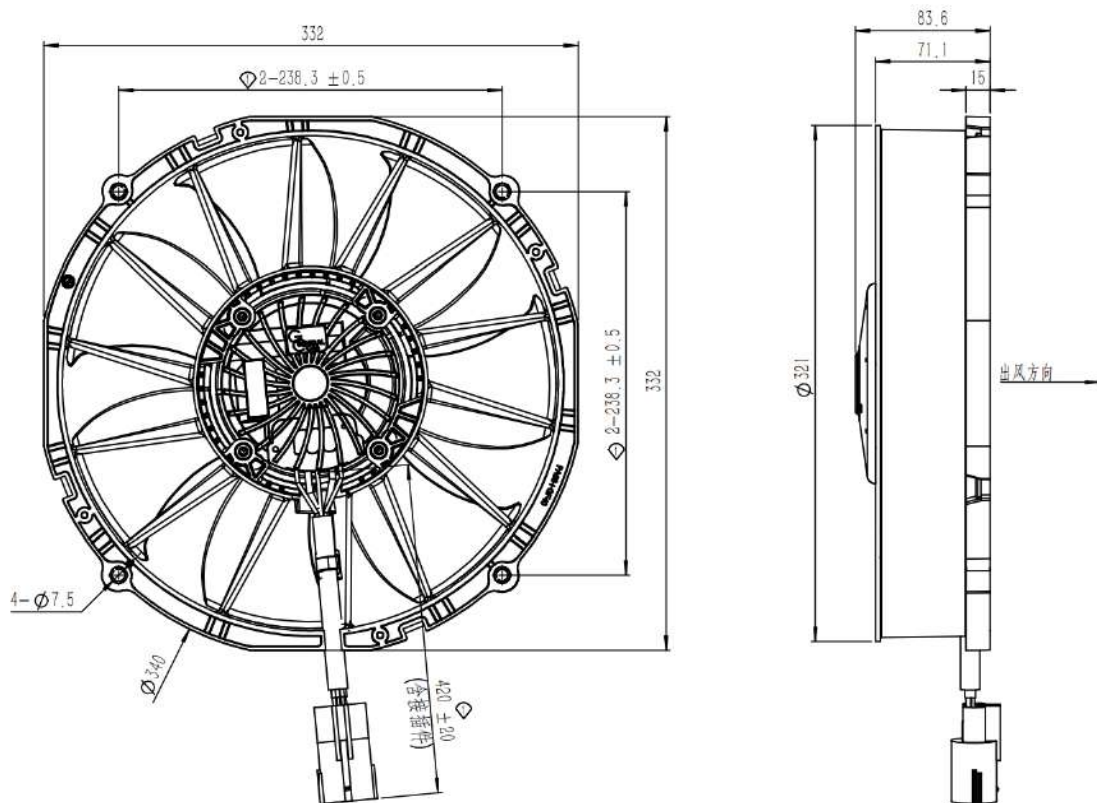
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82-24BL8861-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

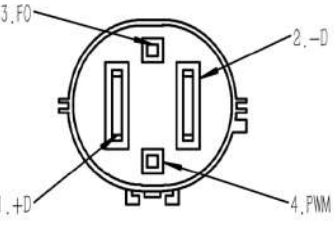
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	/
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

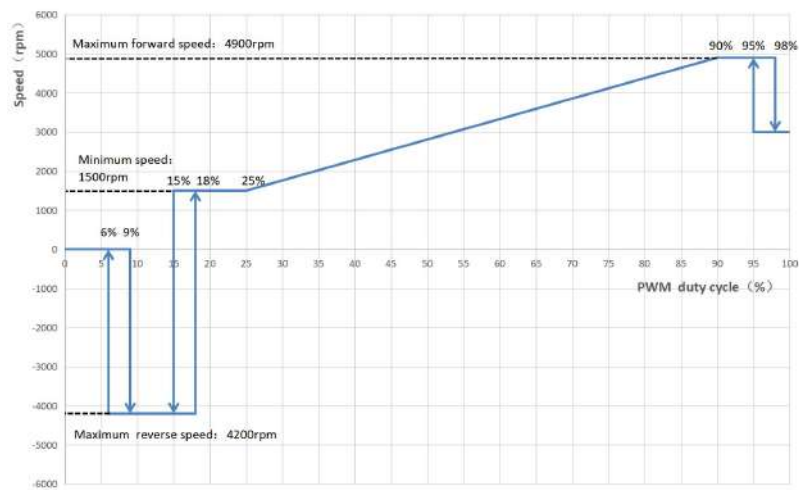
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

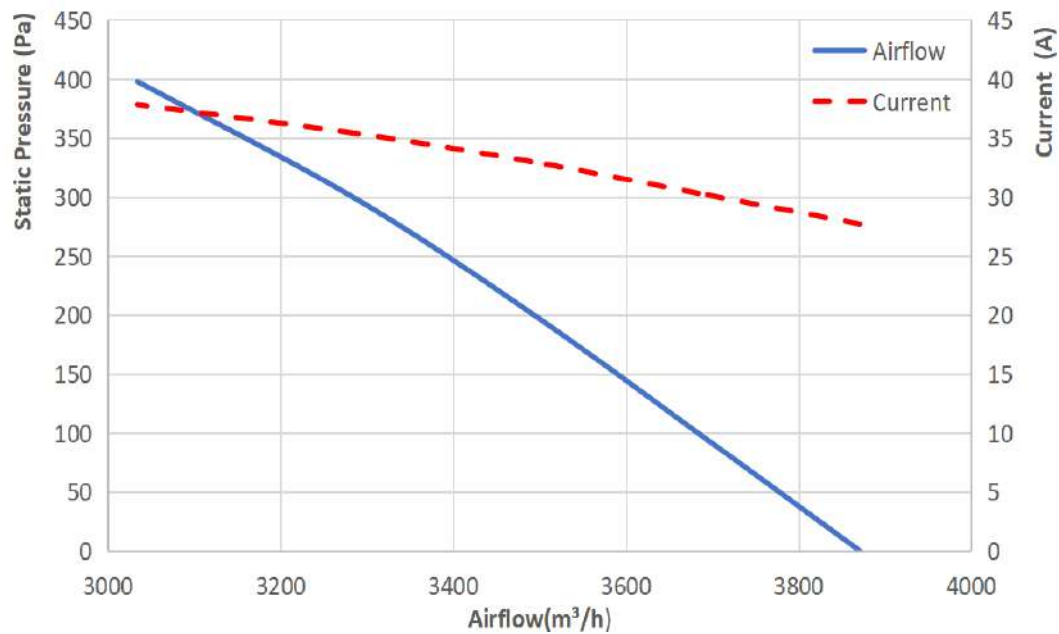
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

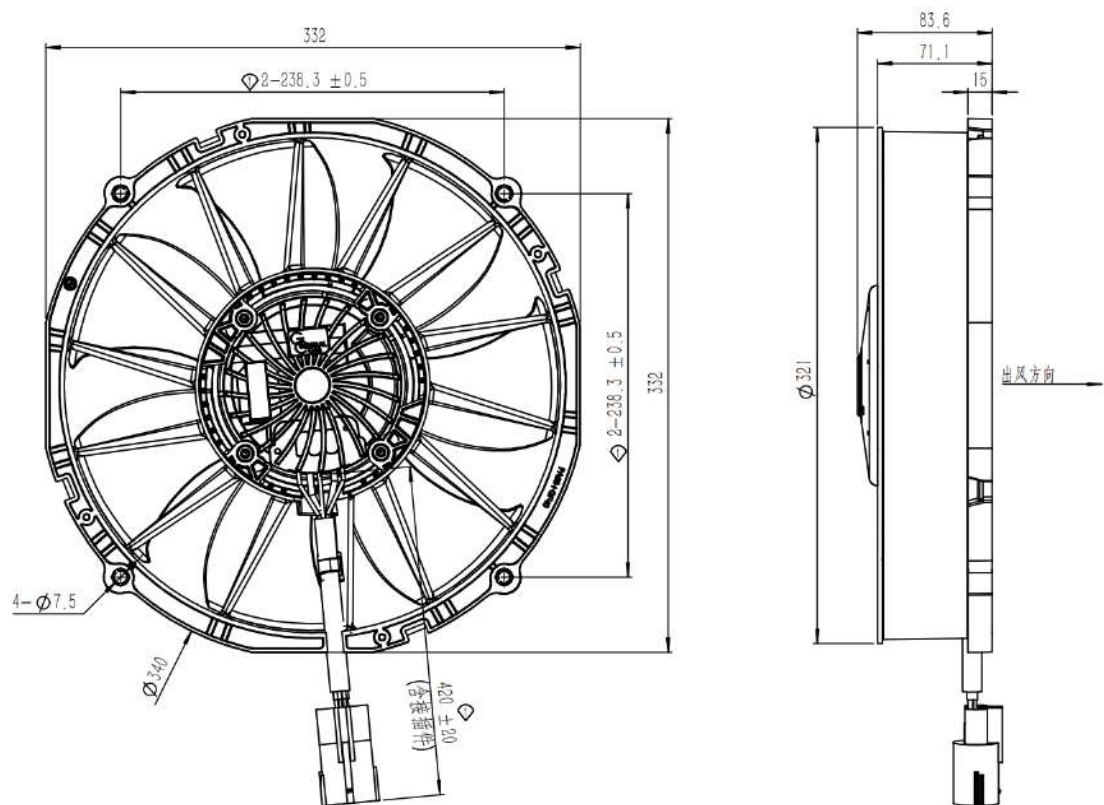
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24B7302-31S		
FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	300W	M50

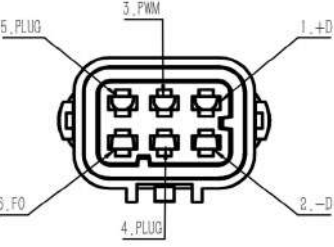
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3500
Min fan speed 最小转速	rpm	1000
Sound pressure level at max speed 最大转速噪音	dBA	76
Weight 重量	kg	3.2
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	11
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

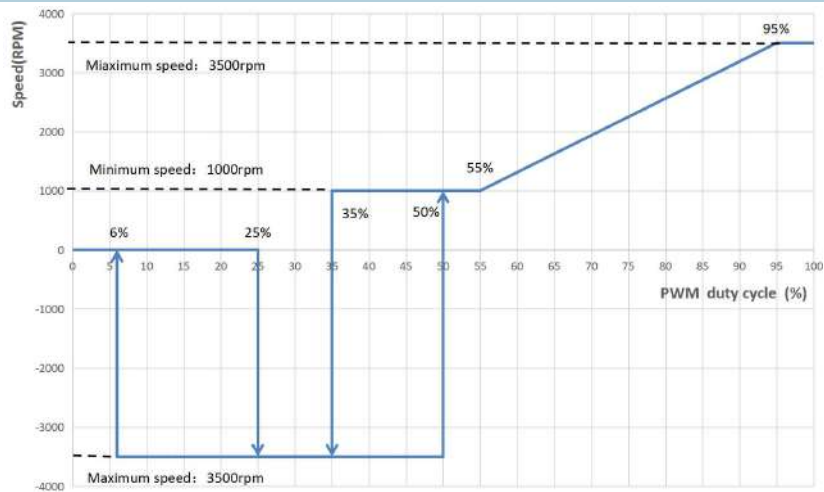
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

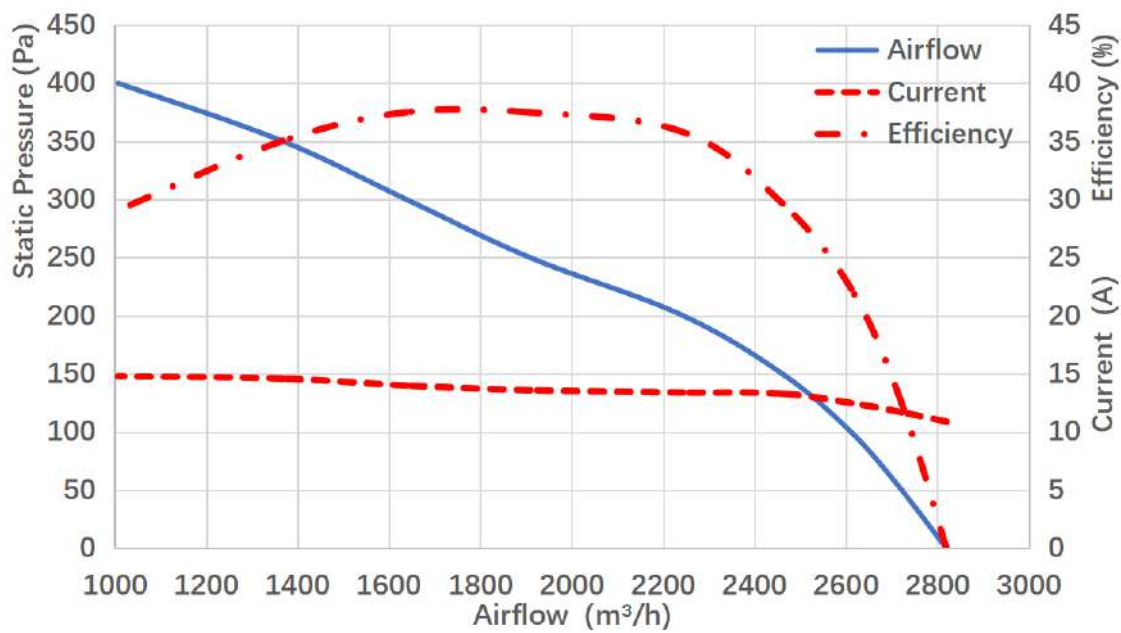
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

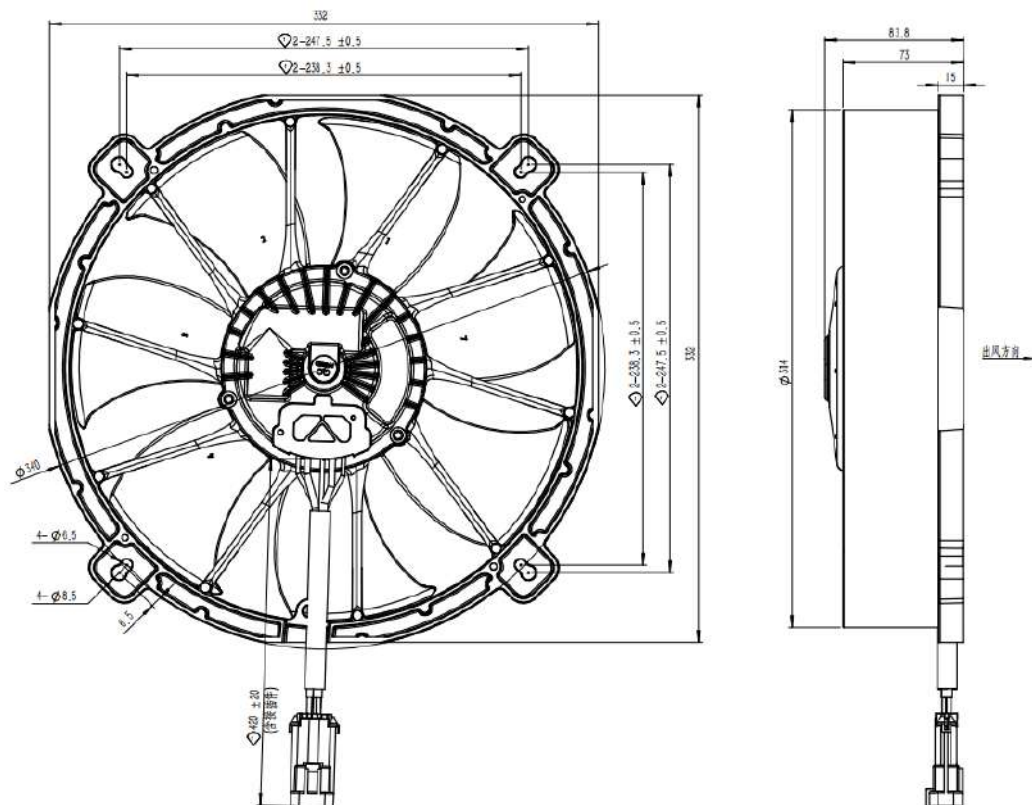
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24BL8401-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	400W	M30

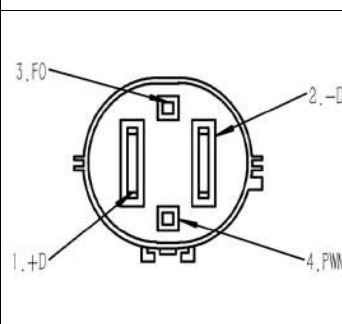
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3800
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	78
Weight 重量	kg	3.2
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

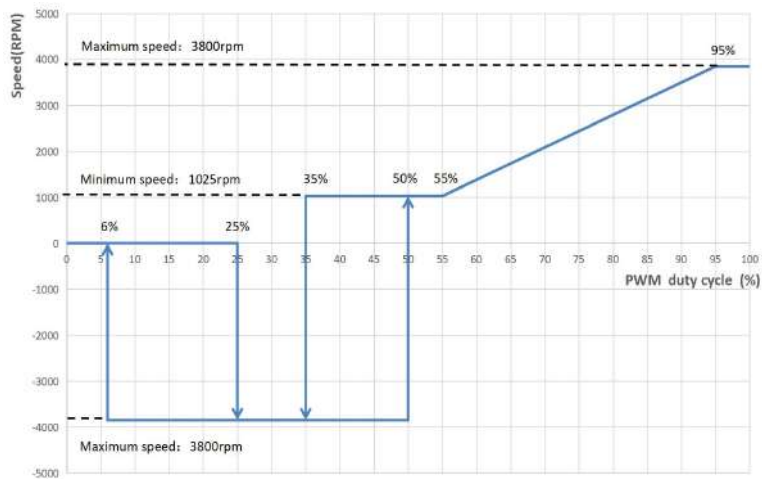
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7157-3580-60	7157-3580-60	7158-3030-50	7158-3030-50
	Pin p/n	7114-3251	7114-3251	7114-4102-02	7114-4102-02
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

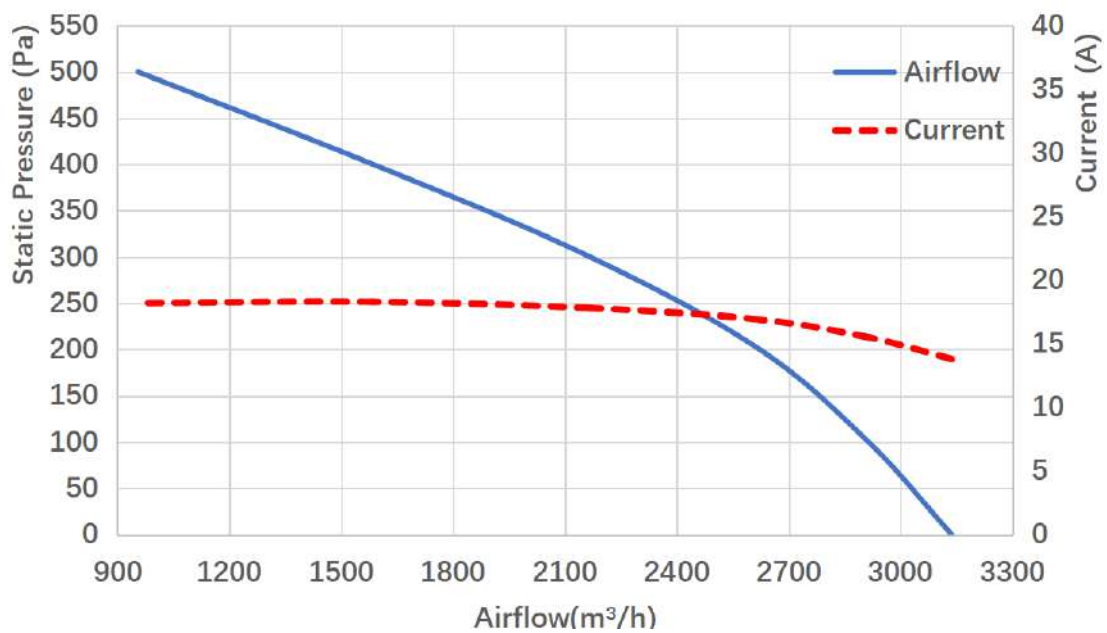
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

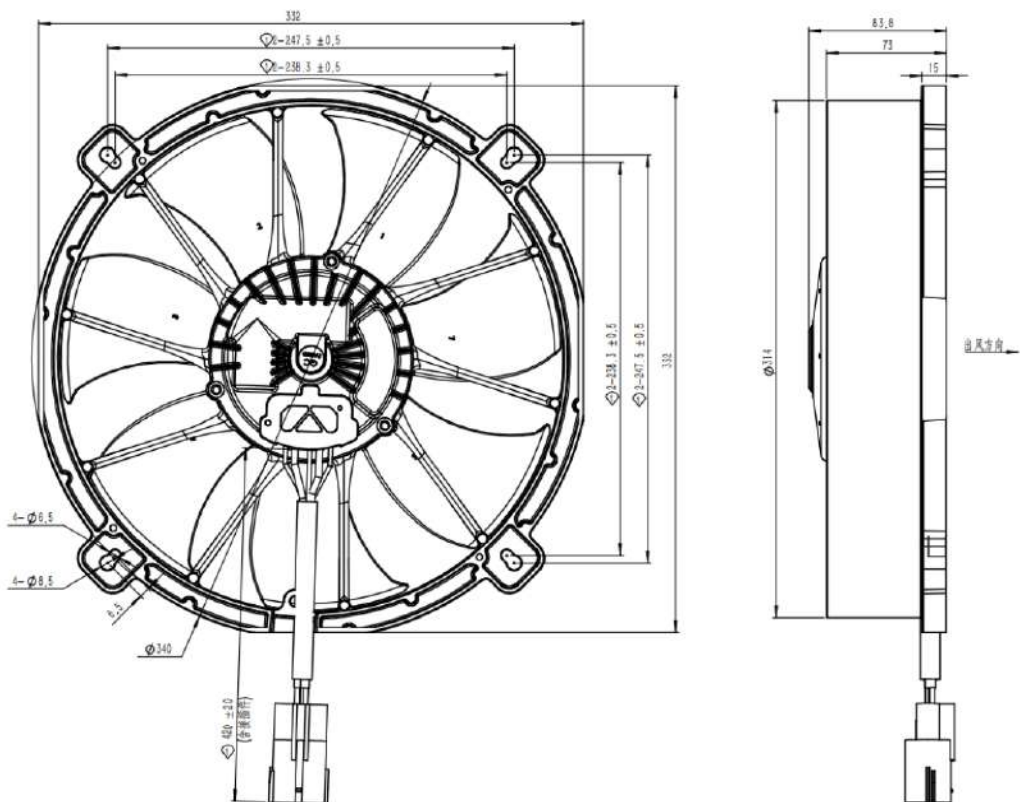
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24BL7525-31S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M50

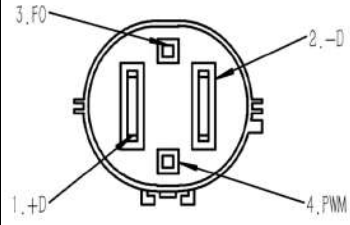
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1250
Sound pressure level at max speed 最大转速噪音	dBA	80
Weight 重量	kg	3.2
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

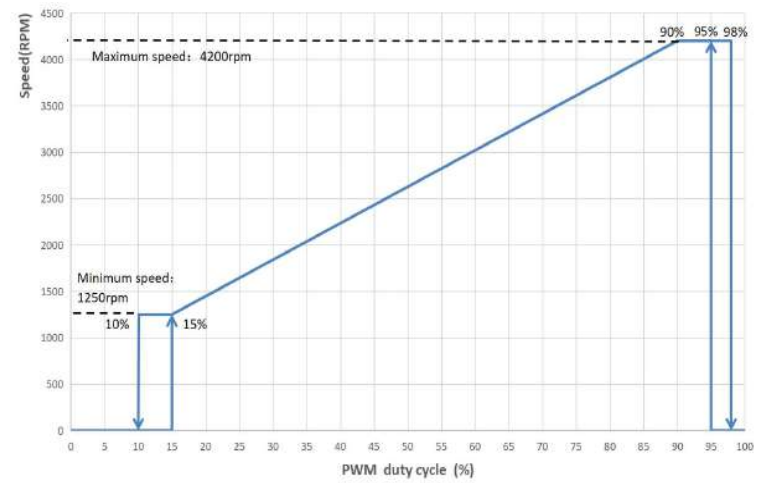
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

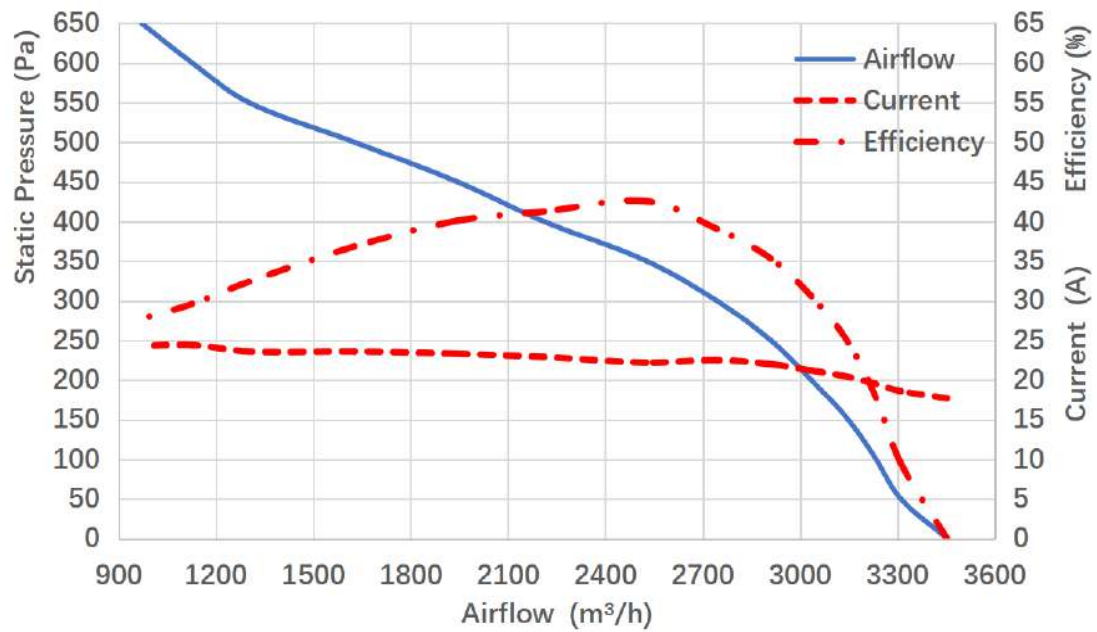
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

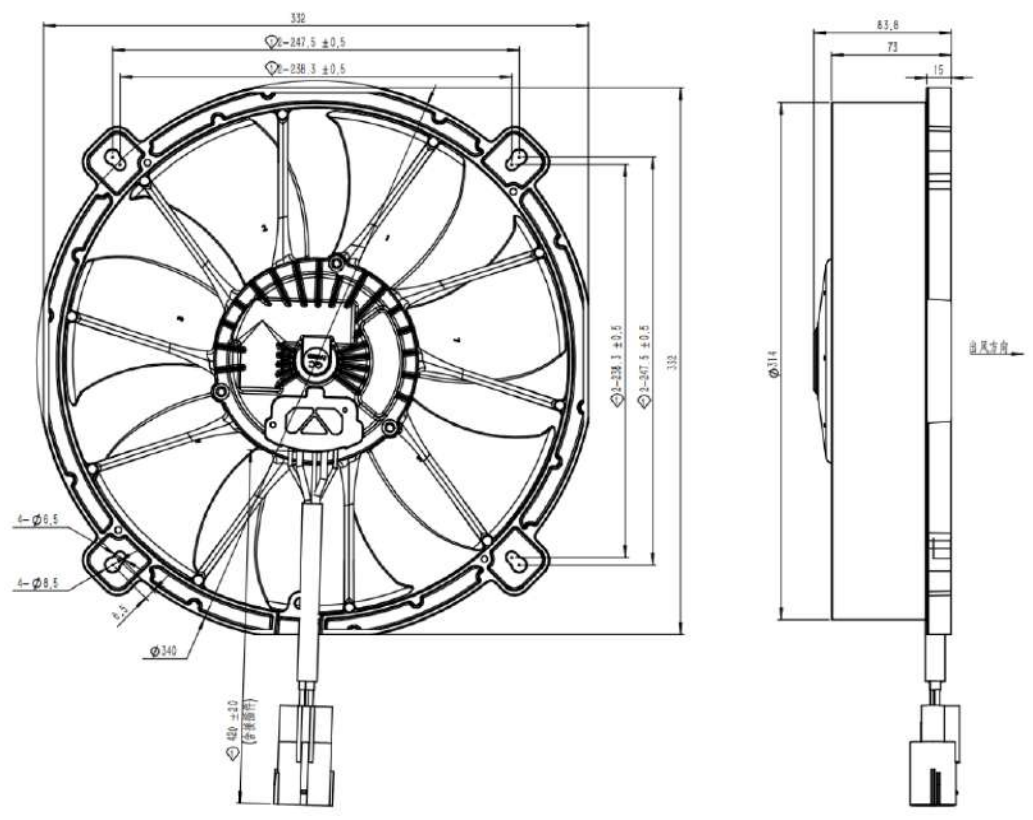
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24BL7527-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M50

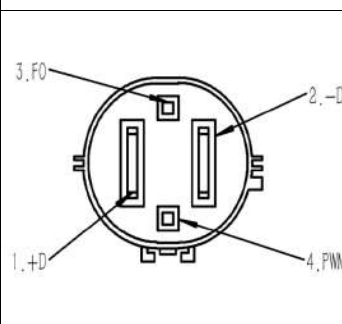
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1250
Sound pressure level at max speed 最大转速噪音	dBA	80
Weight 重量	kg	3.2
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+110
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

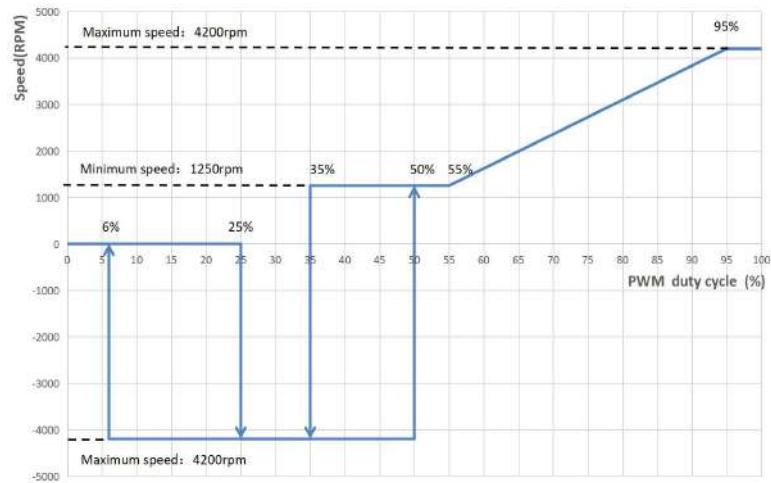
Brand: YAZAKI

Part Number : 7282-8497-90

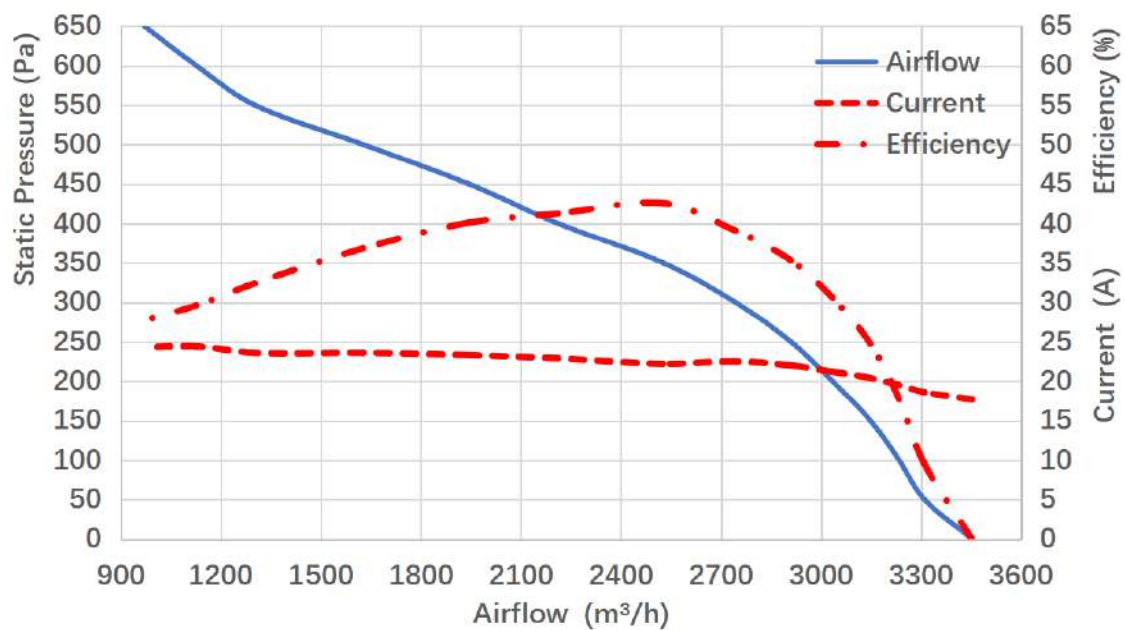
	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

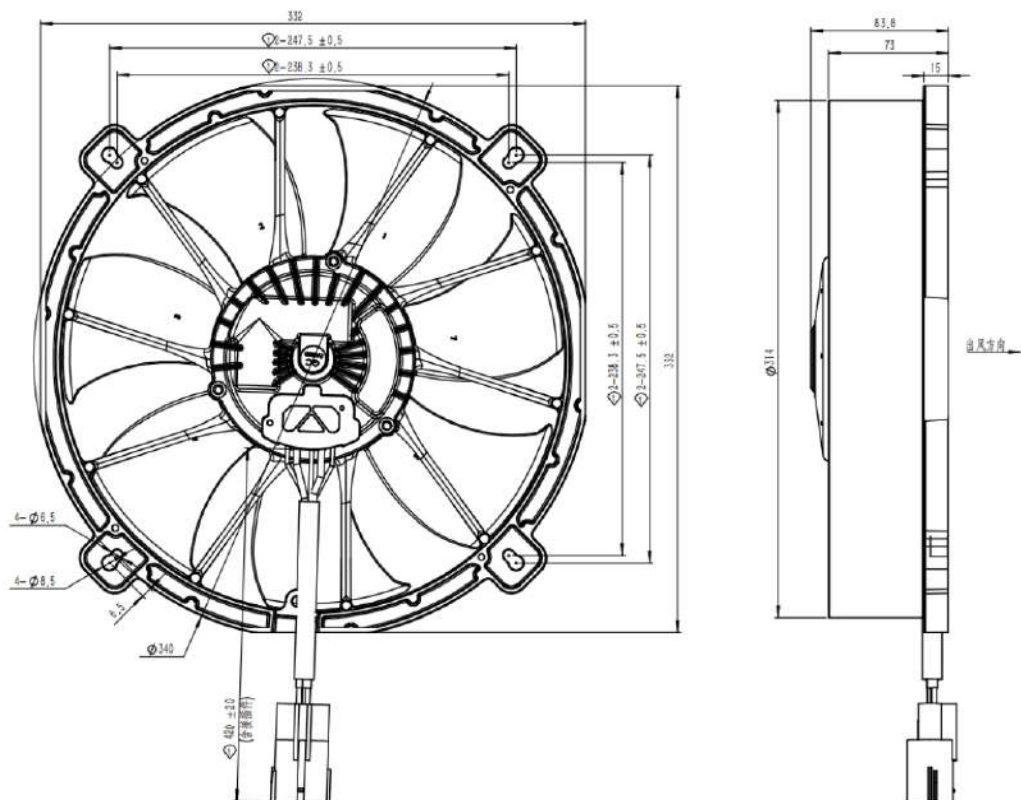
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24BL8861-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

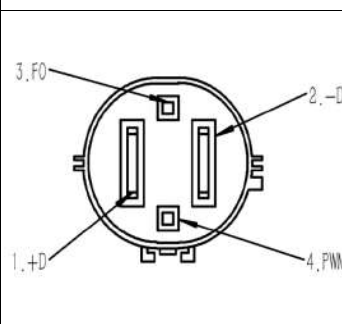
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	84
Weight 重量	kg	3.5
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

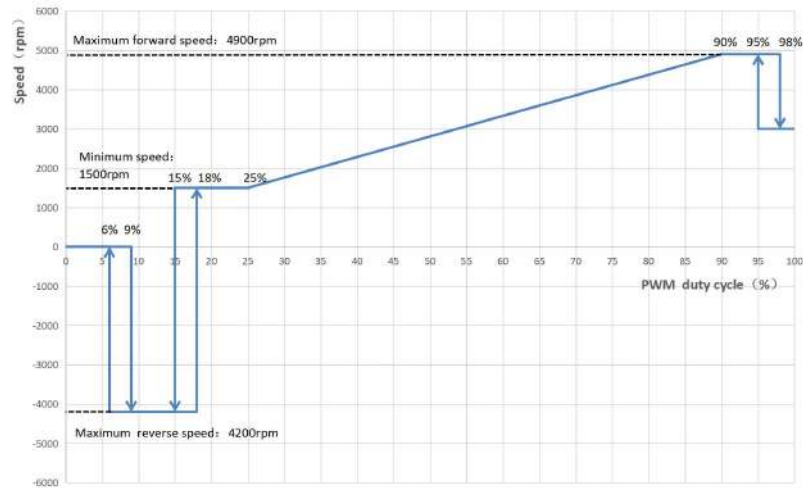
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

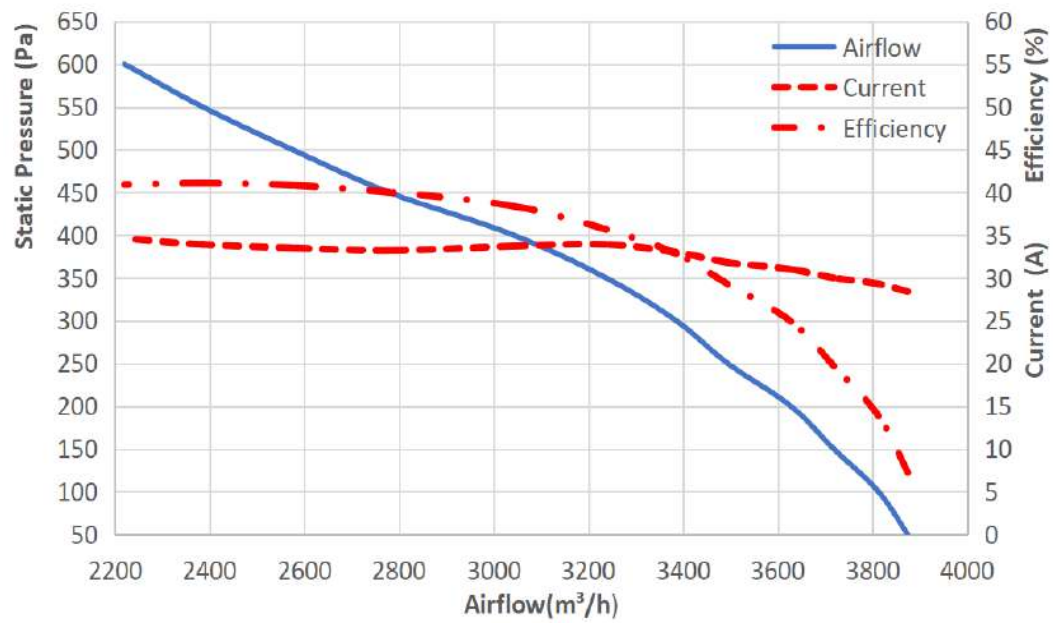
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

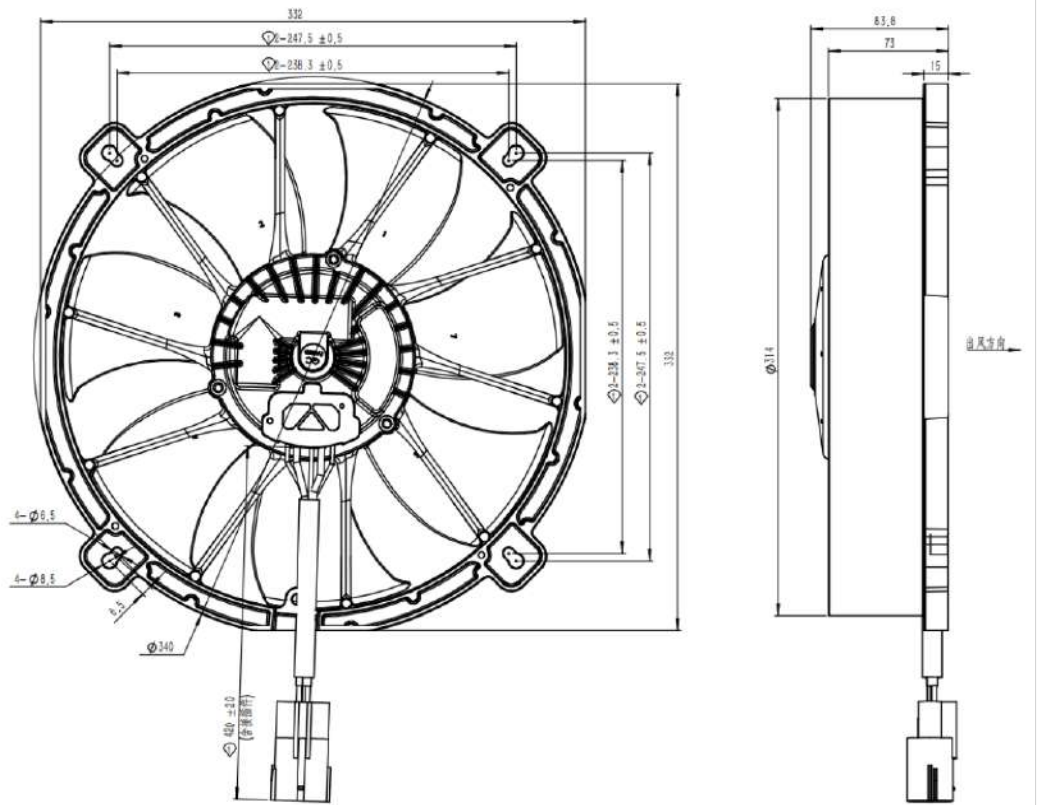
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24BL8862-31S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

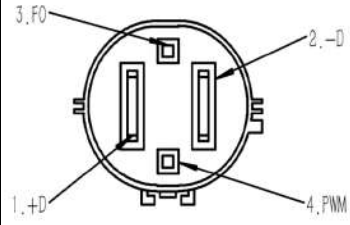
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	84
Weight 重量	kg	3.5
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

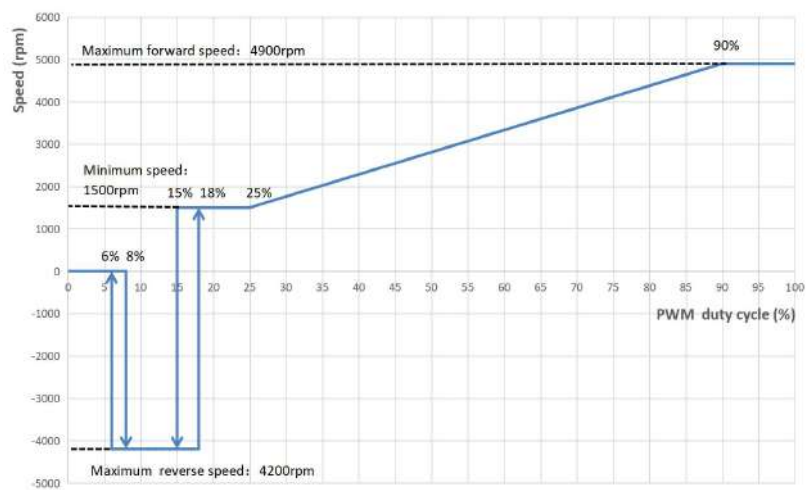
Brand: YAZAKI

Part Number : 7282-8497-90

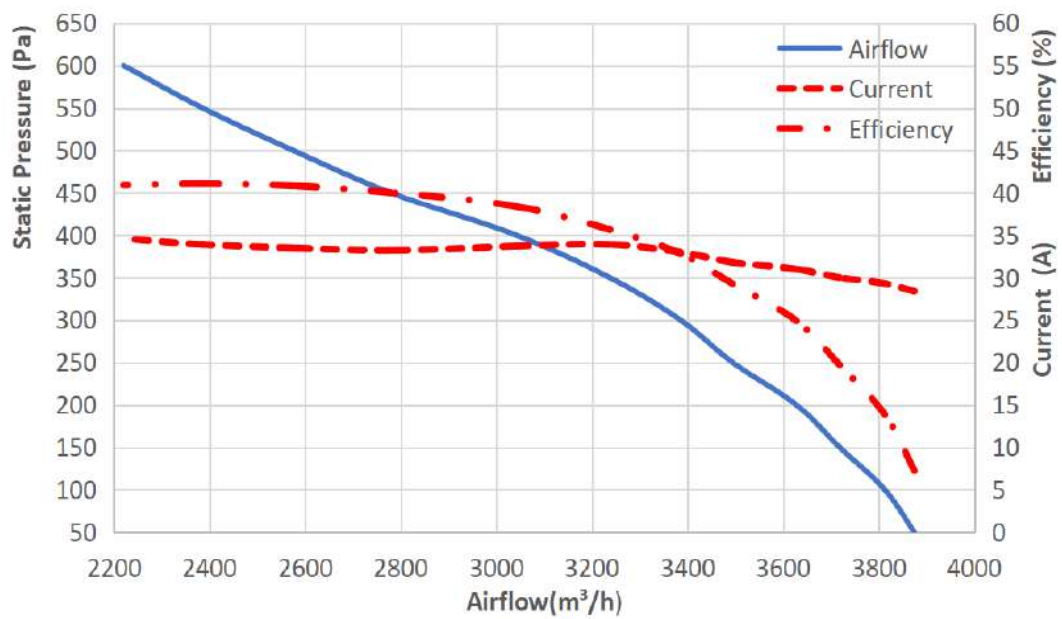
	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

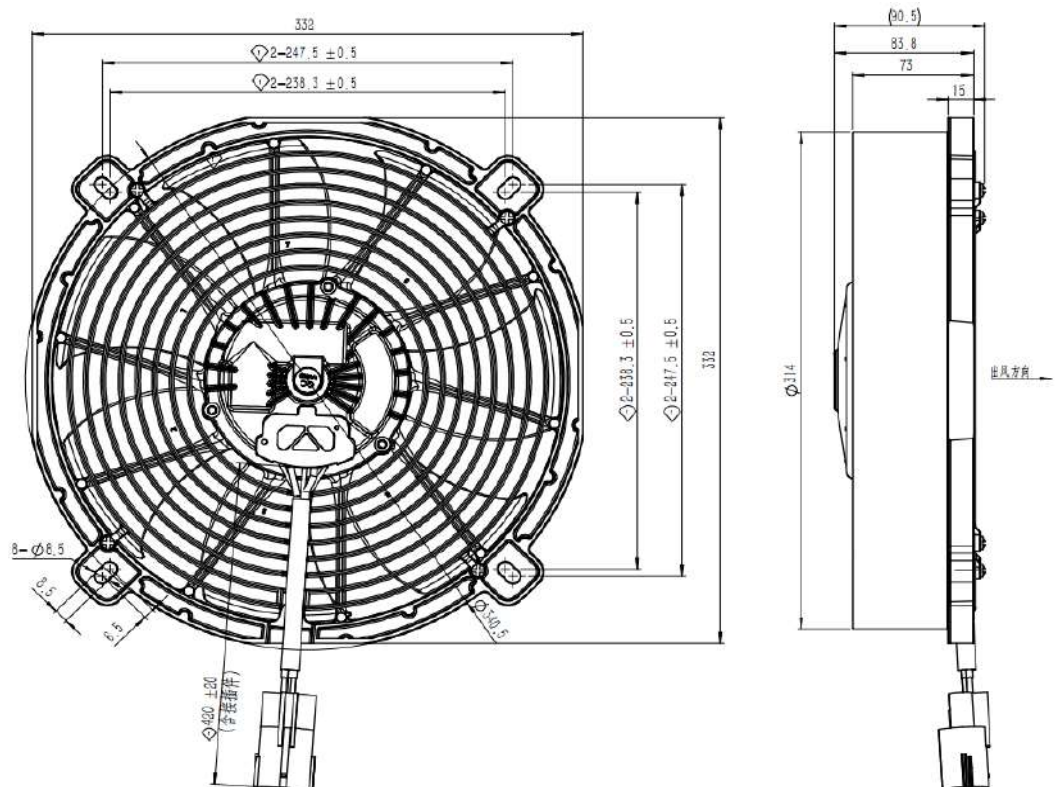
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24BL8864-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

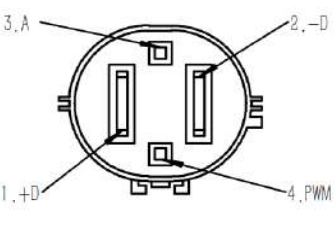
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	84
Weight 重量	kg	3.5
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

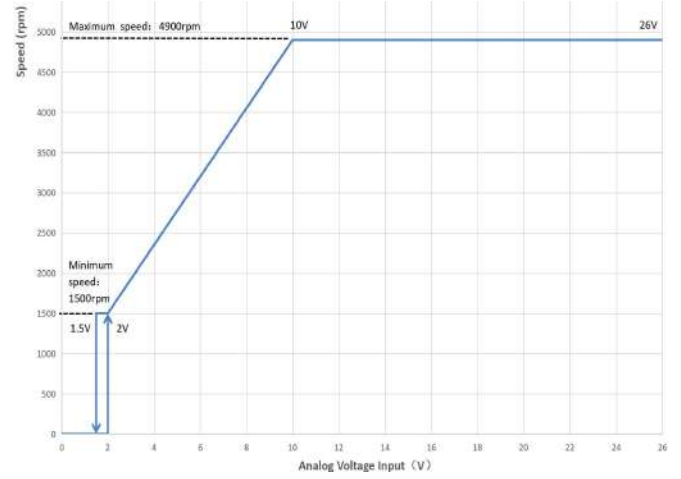
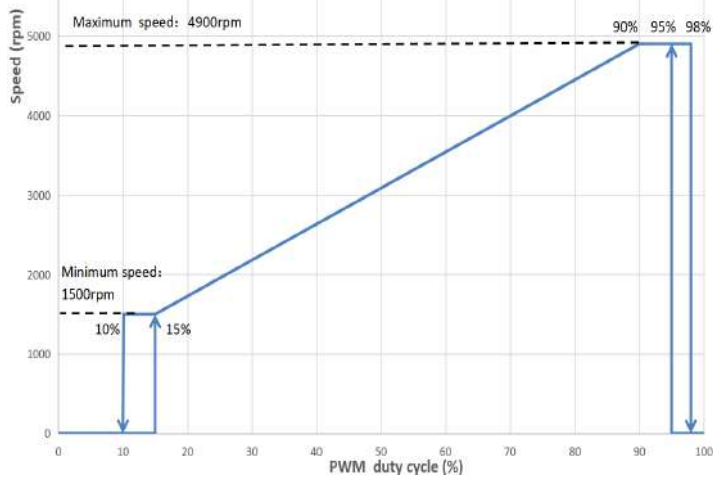
Part Number : 7282-8497-90

	Identification(*)	+D	-D	A	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

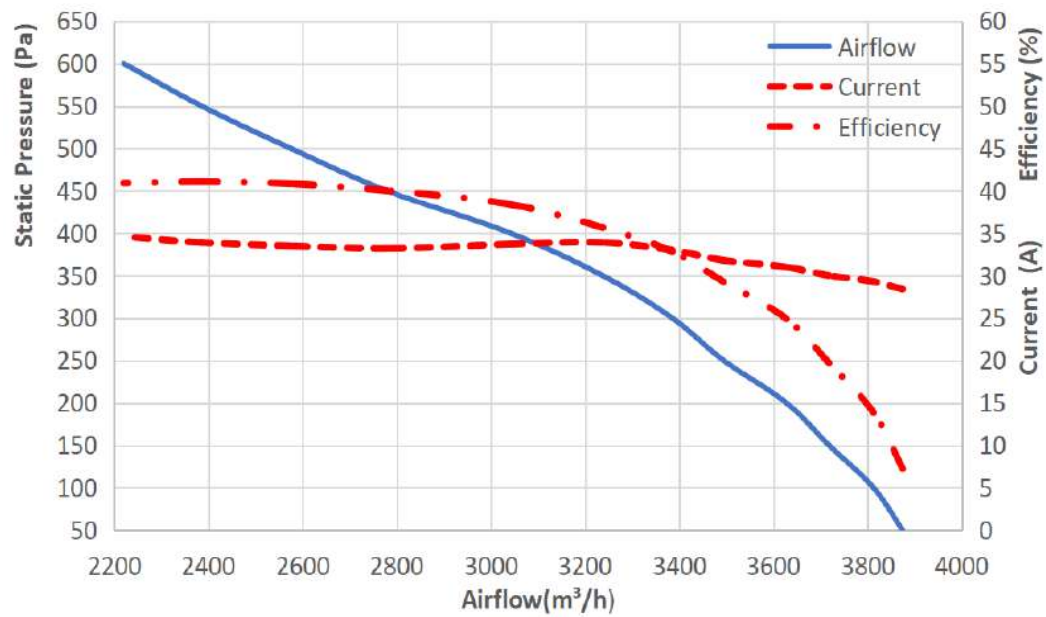
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

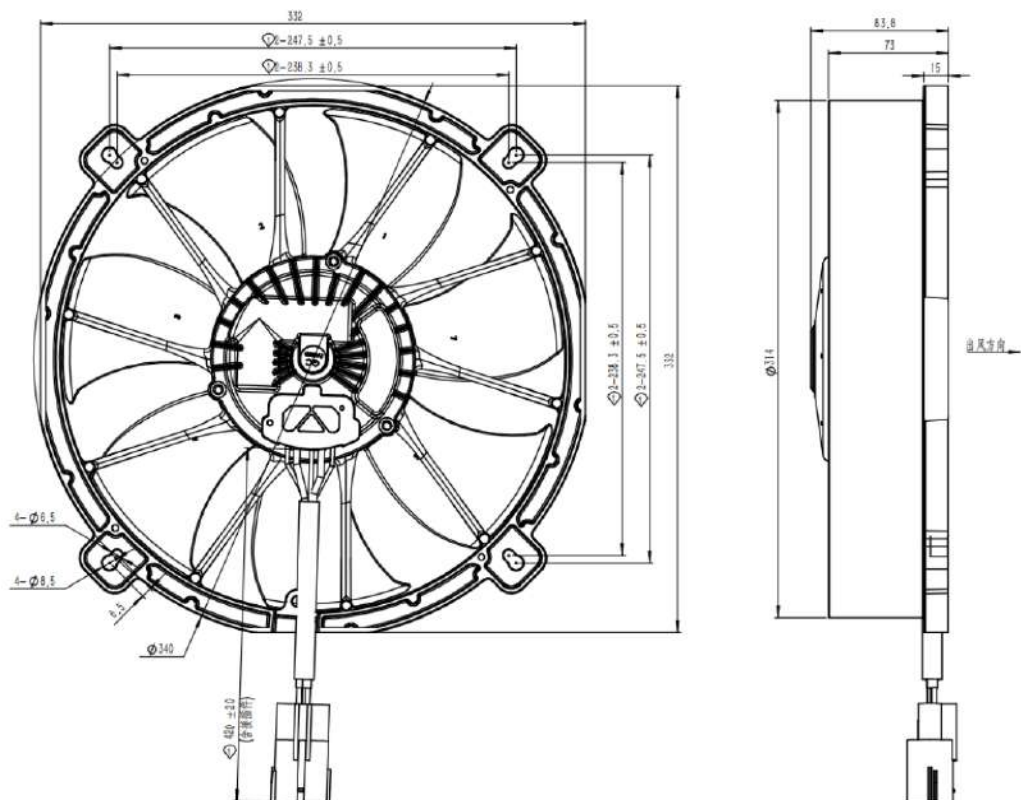
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24BL8867-31S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

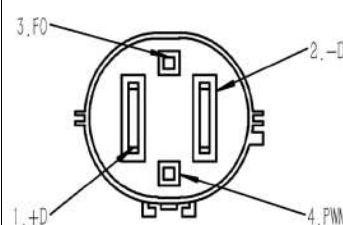
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	84
Weight 重量	kg	3.5
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

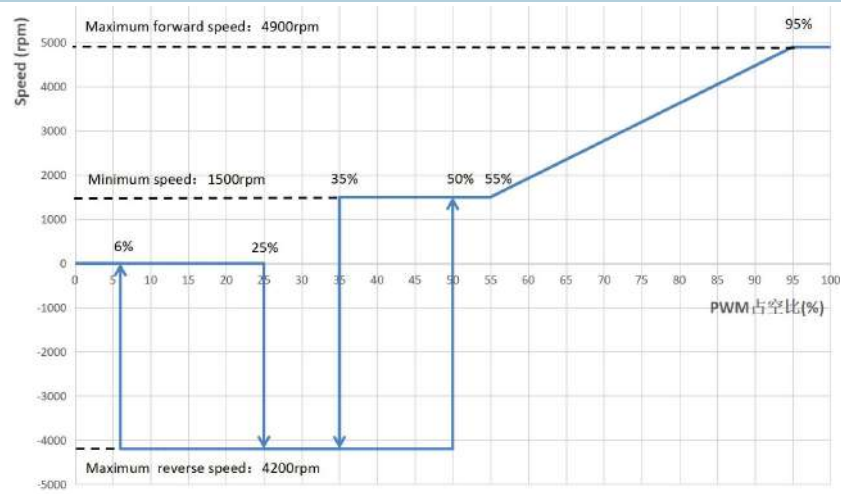
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

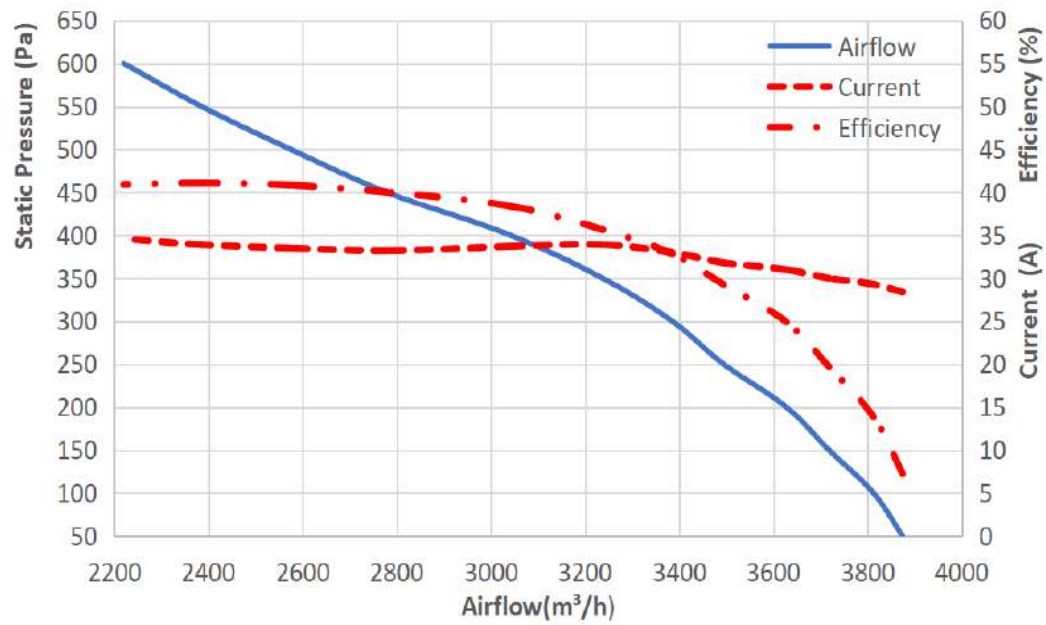
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

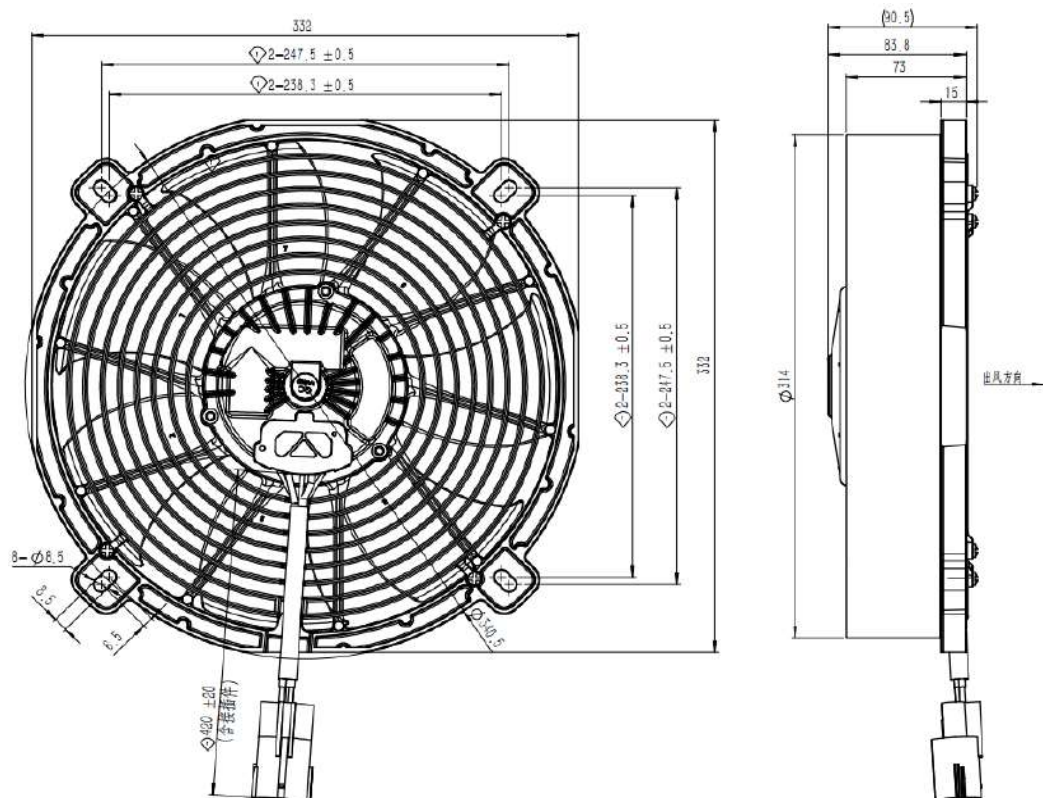
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24BL9860-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	1000W	M30

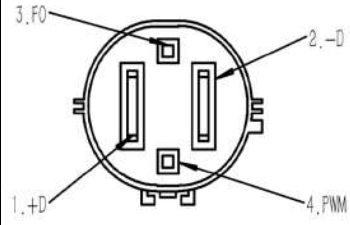
FEATURES | 主要参数

Max fan speed 最大转速	rpm	5200
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	85.5
Weight 重量	kg	3.4
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	20
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

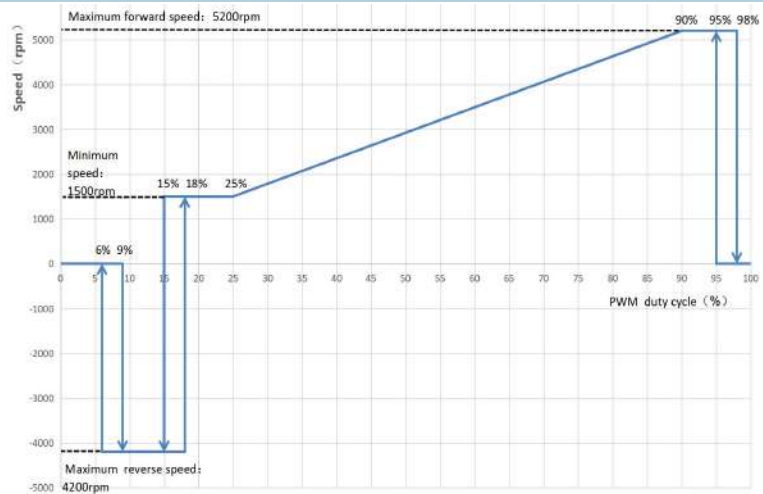
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	7158-3030-50	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	7114-4102-02	7114-4102-02
	Section [mm²]	10.0	10.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

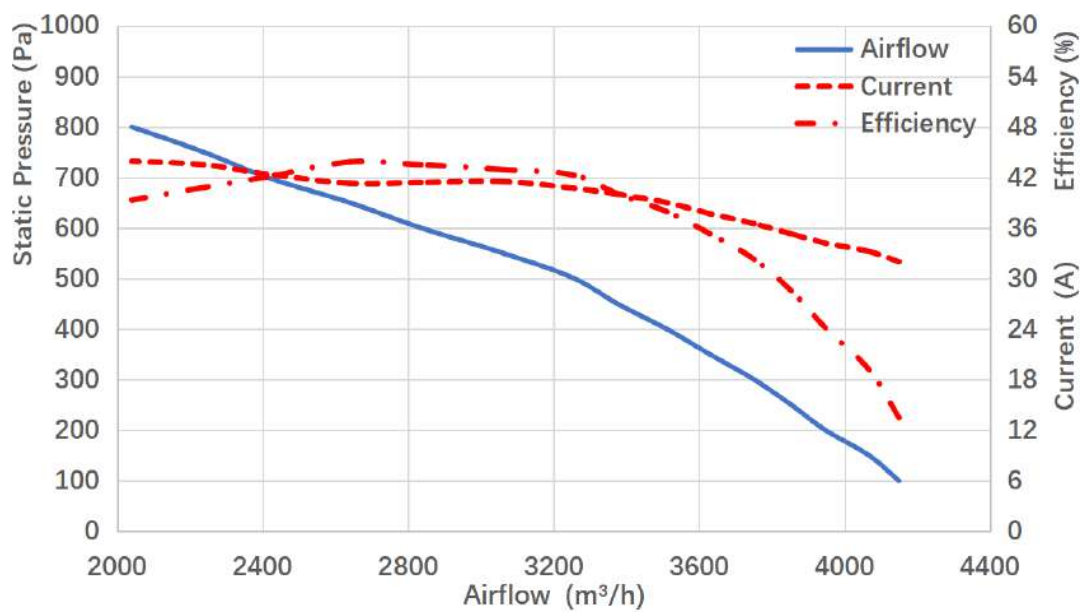
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

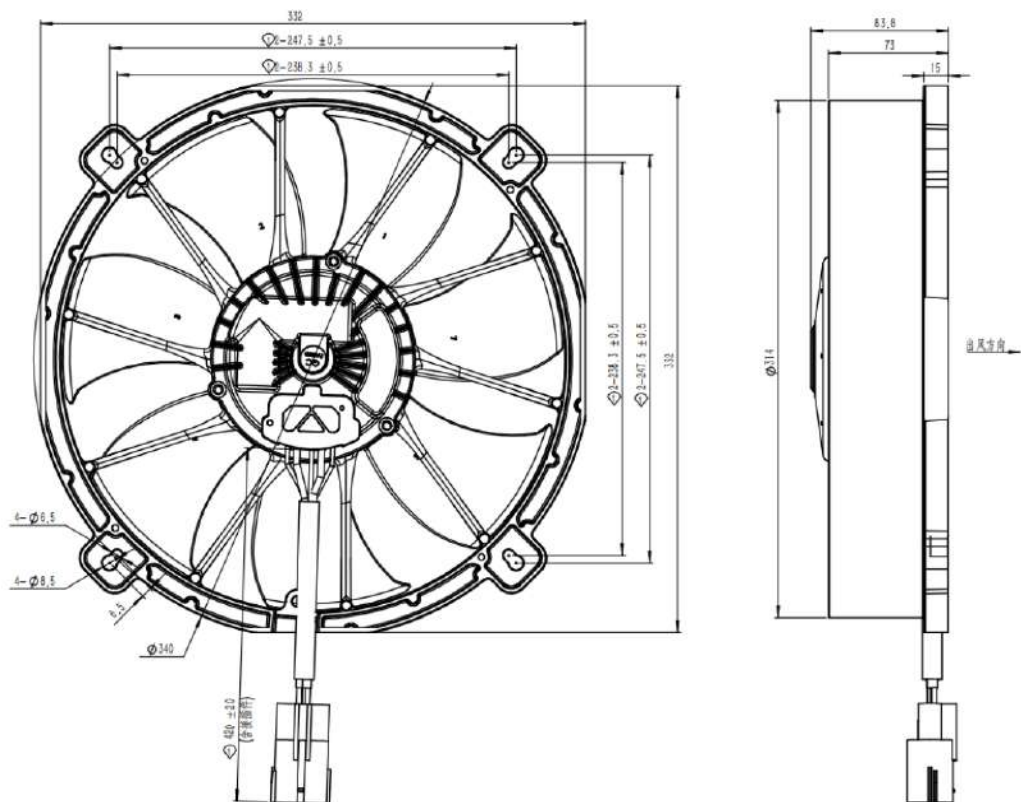
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A-24BL9862-31S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	1000W	M30

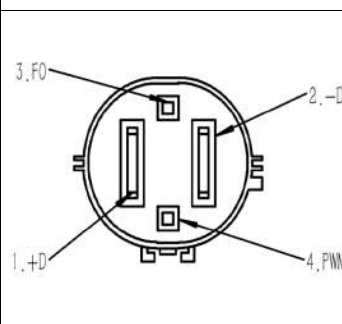
FEATURES | 主要参数

Max fan speed 最大转速	rpm	5200
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	85.5
Weight 重量	kg	3.4
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	18
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

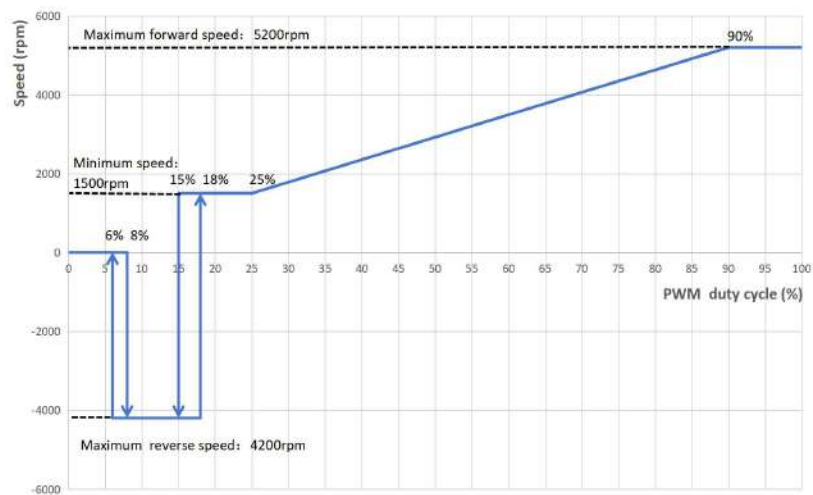
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	7158-3030-50	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	7114-4102-02	7114-4102-02
	Section [mm²]	10.0	10.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

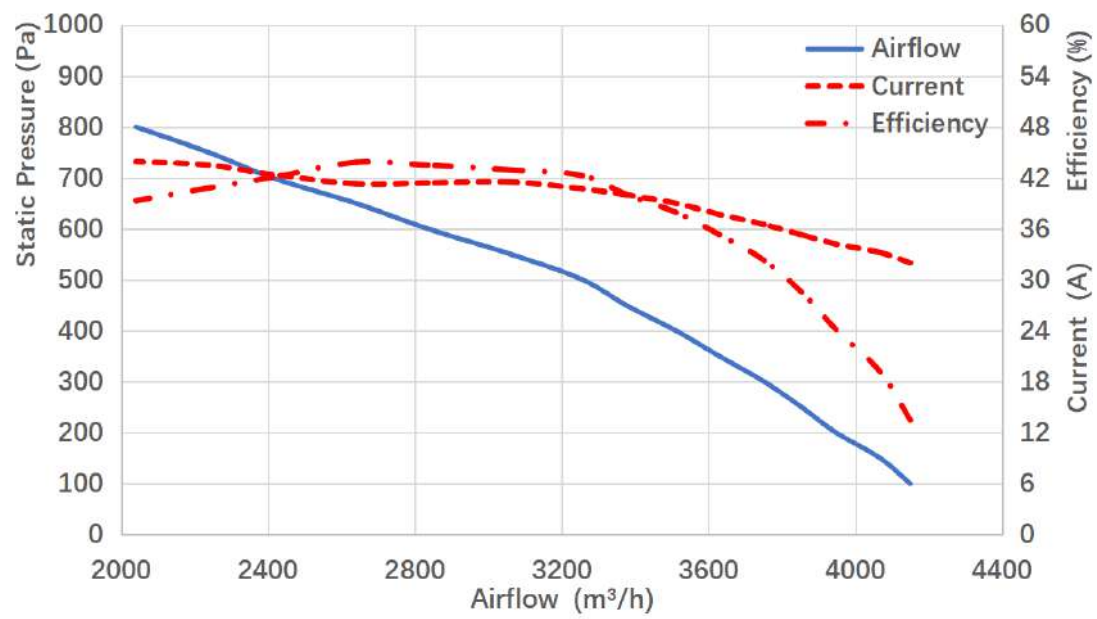
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

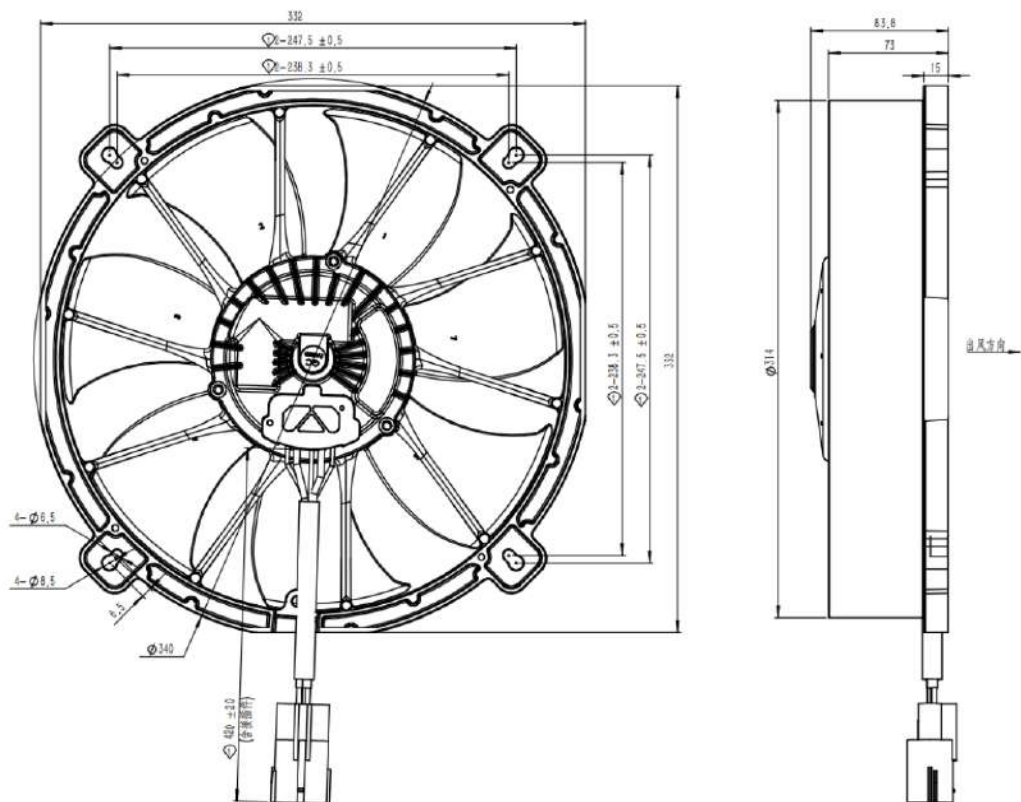
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A1-24BL7525-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M50

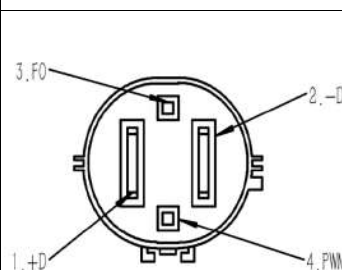
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1250
Sound pressure level at max speed 最大转速噪音	dBA	82.5
Weight 重量	kg	3.2
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+105
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

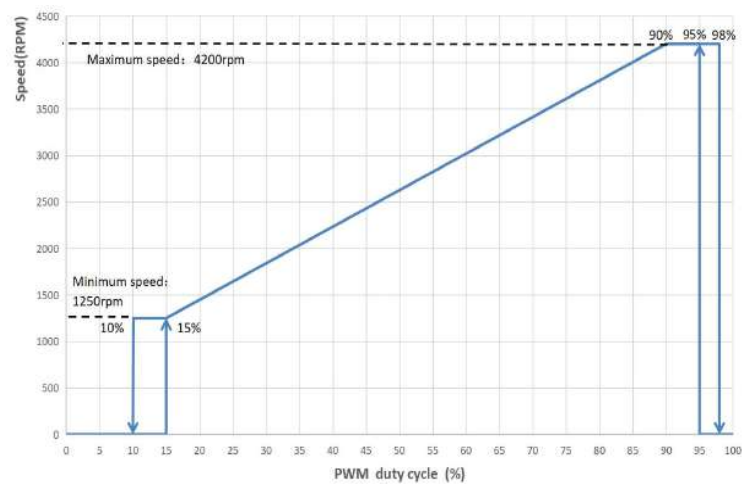
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

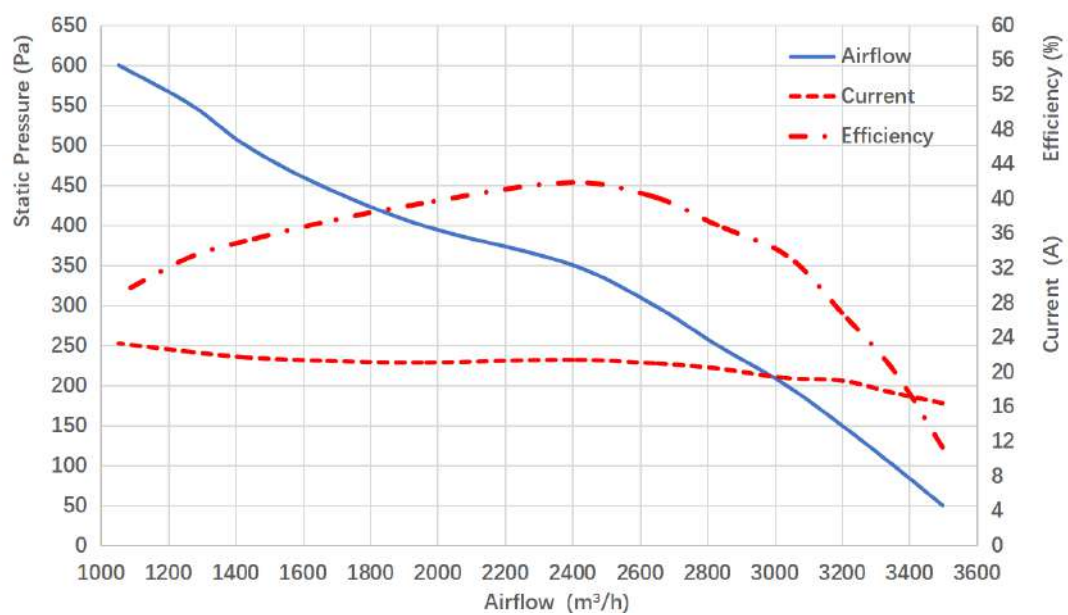
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

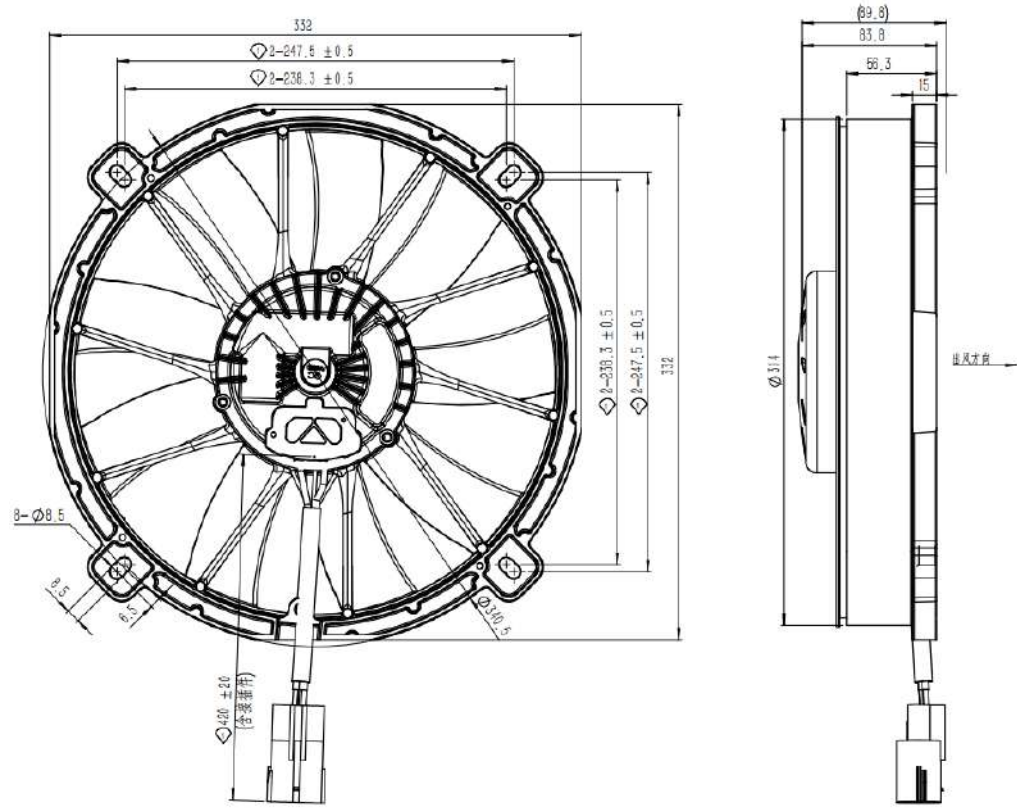
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A1-24BL7527-32S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M50

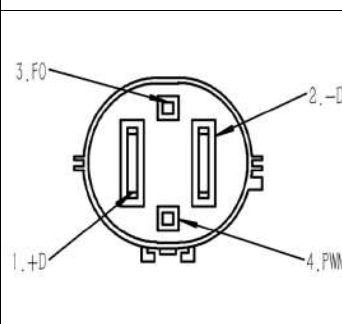
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1250
Sound pressure level at max speed 最大转速噪音	dBA	82.5
Weight 重量	kg	3.2
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+105
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



F82A1-24BL8861-32S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

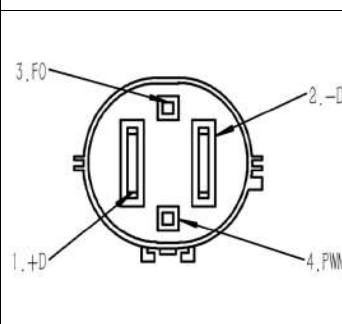
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	87
Weight 重量	kg	3.4
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

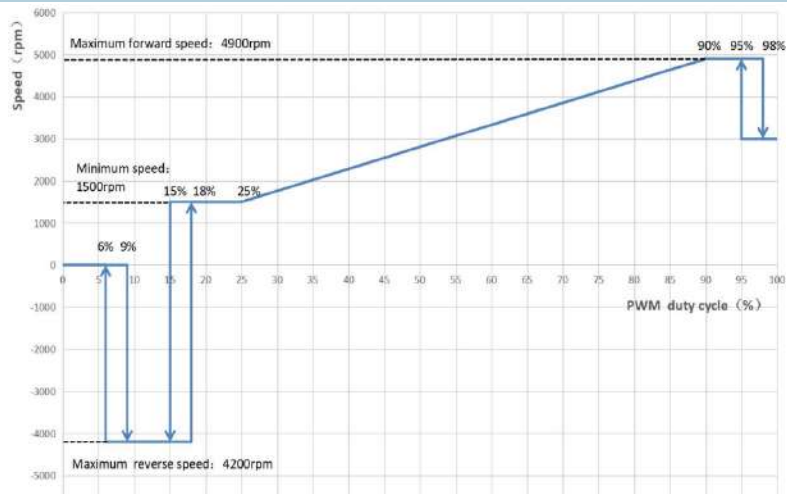
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

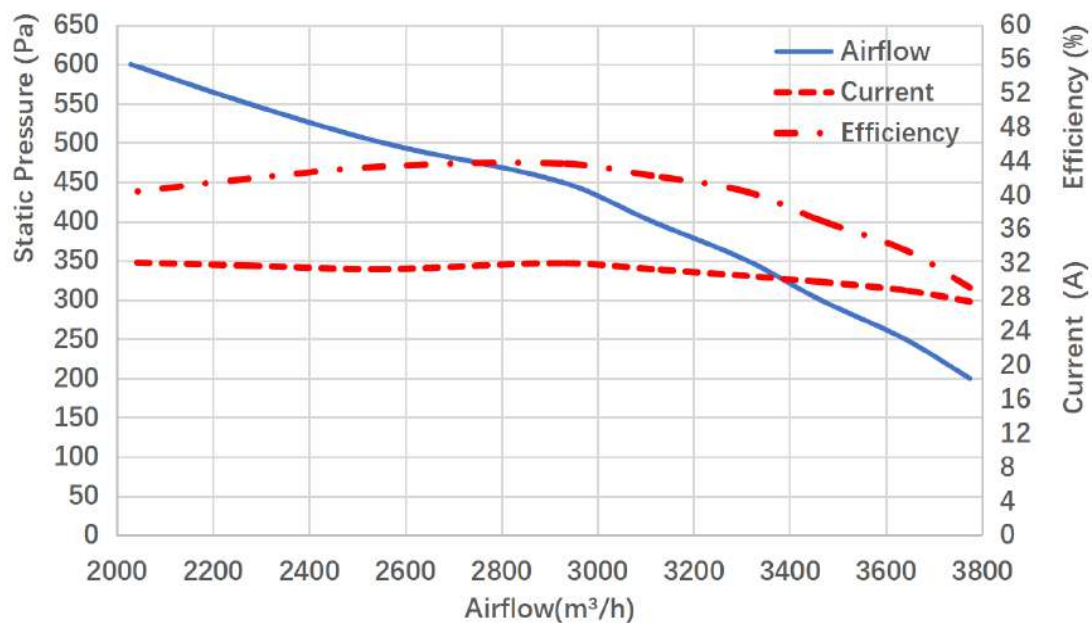
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

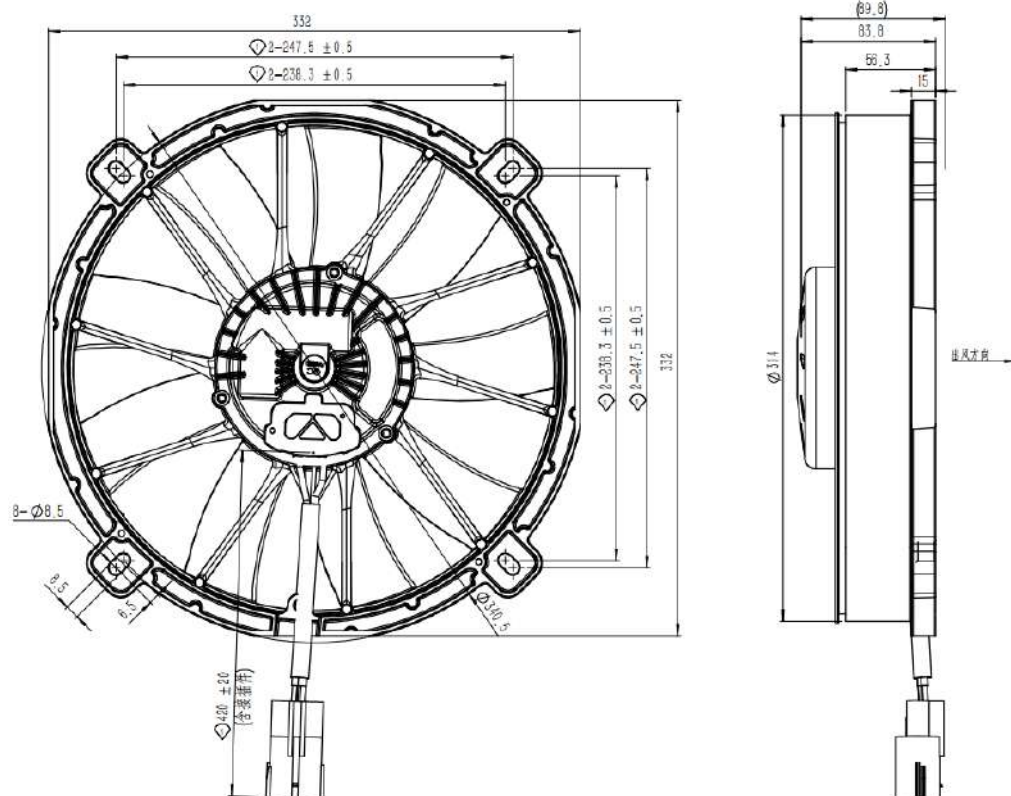
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A1-24BL8862-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

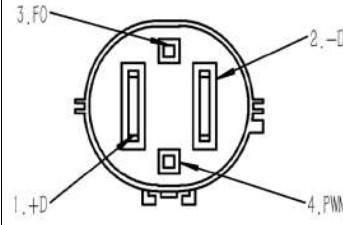
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	87
Weight 重量	kg	3.4
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

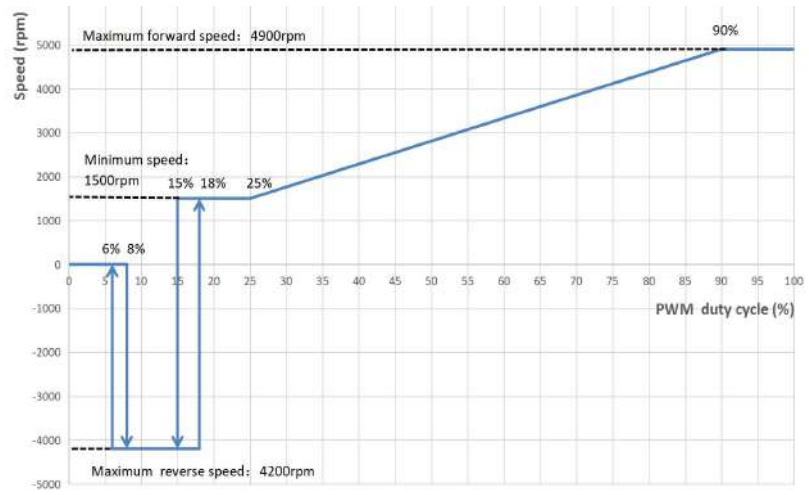
Brand: YAZAKI

Part Number : 7282-8497-90

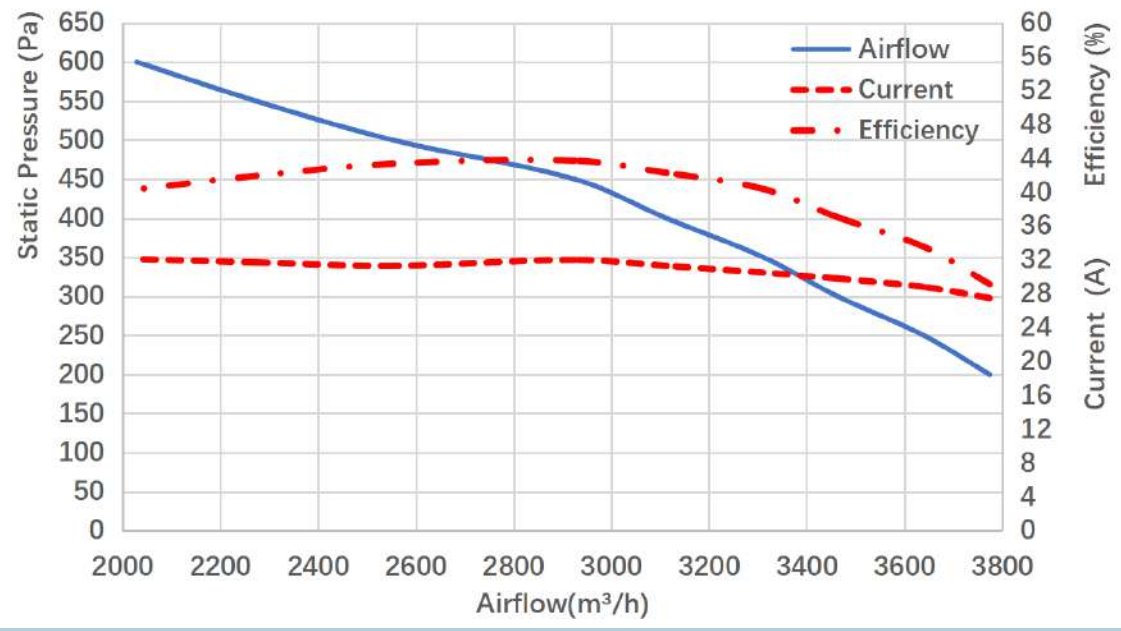
	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

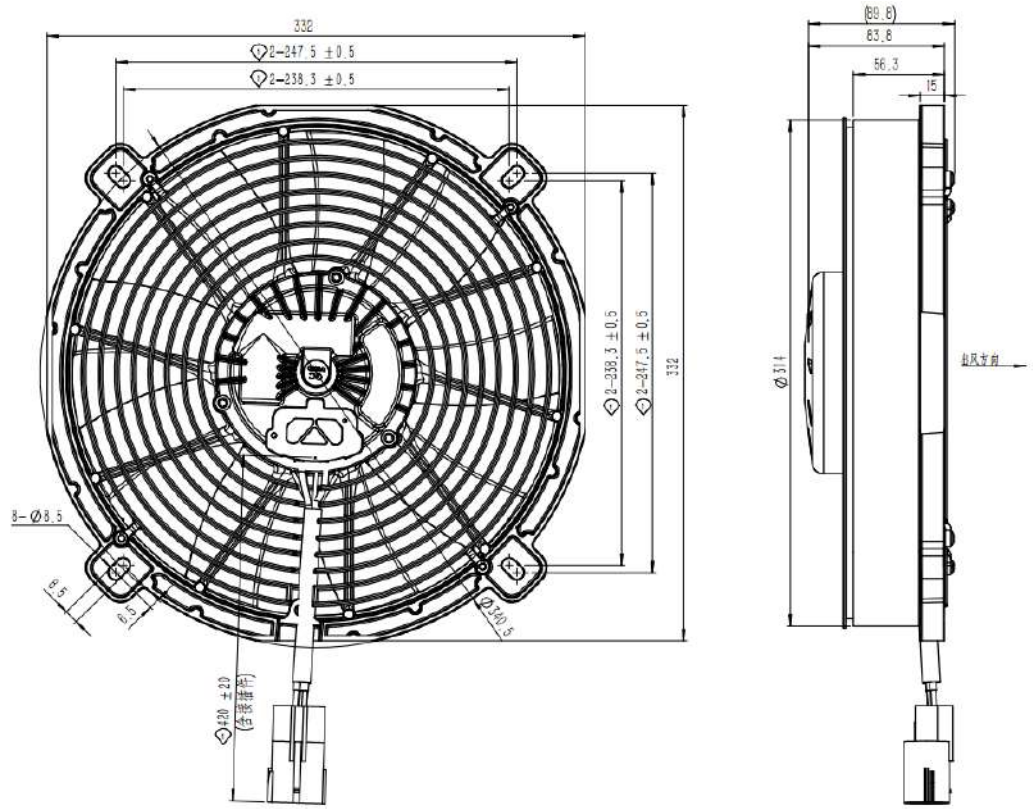
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A1-24BL8864-32S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

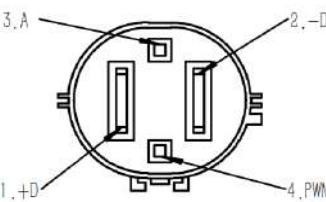
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	87
Weight 重量	kg	3.4
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

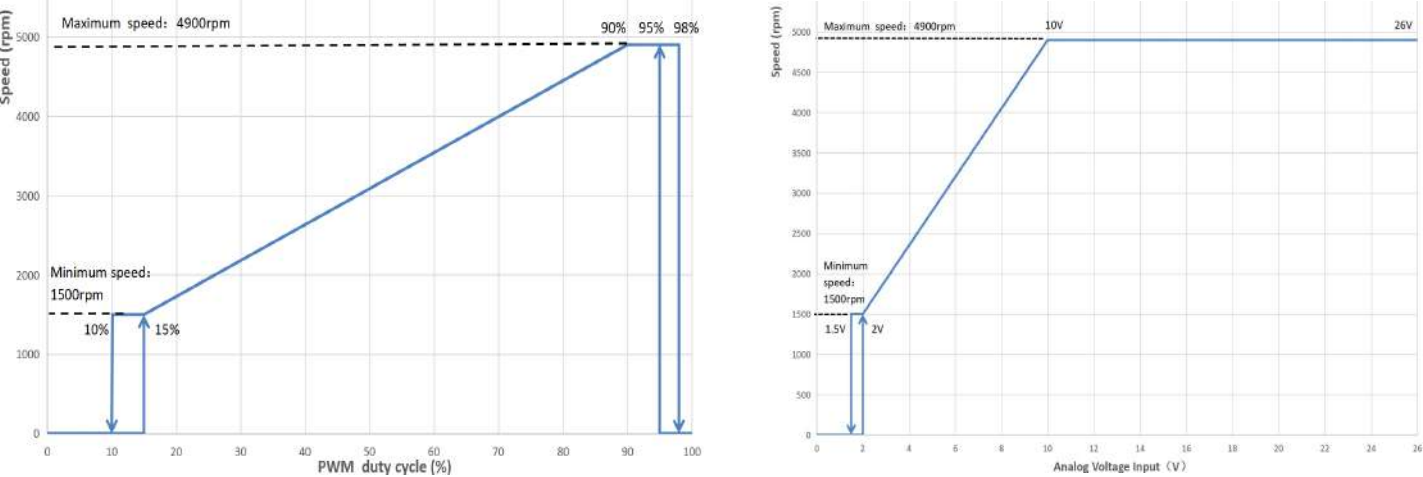
Part Number : 7282-8497-90

	Identification(*)	+D	-D	A	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

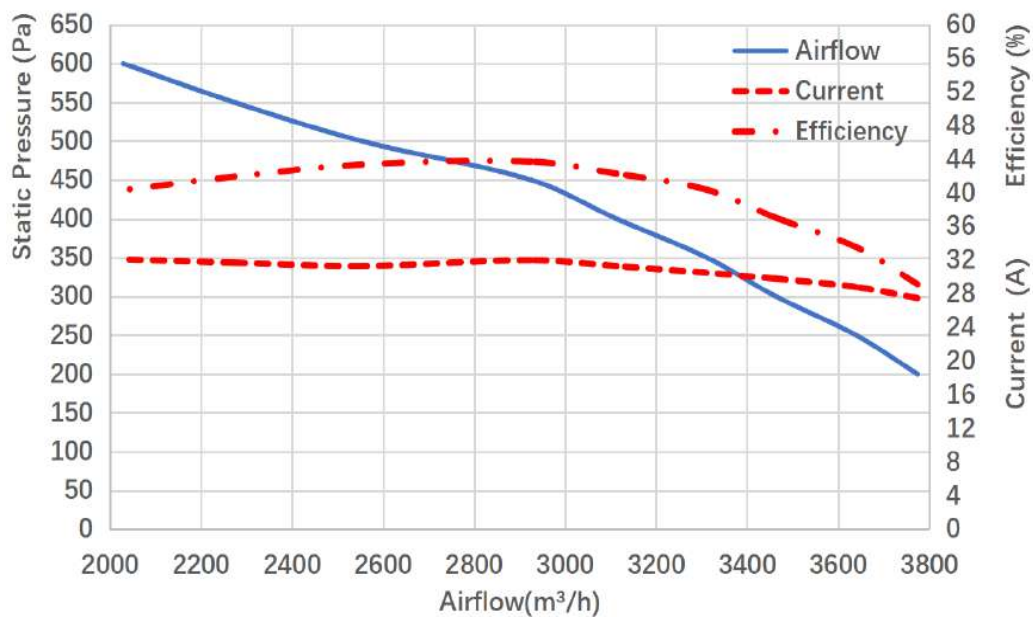
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

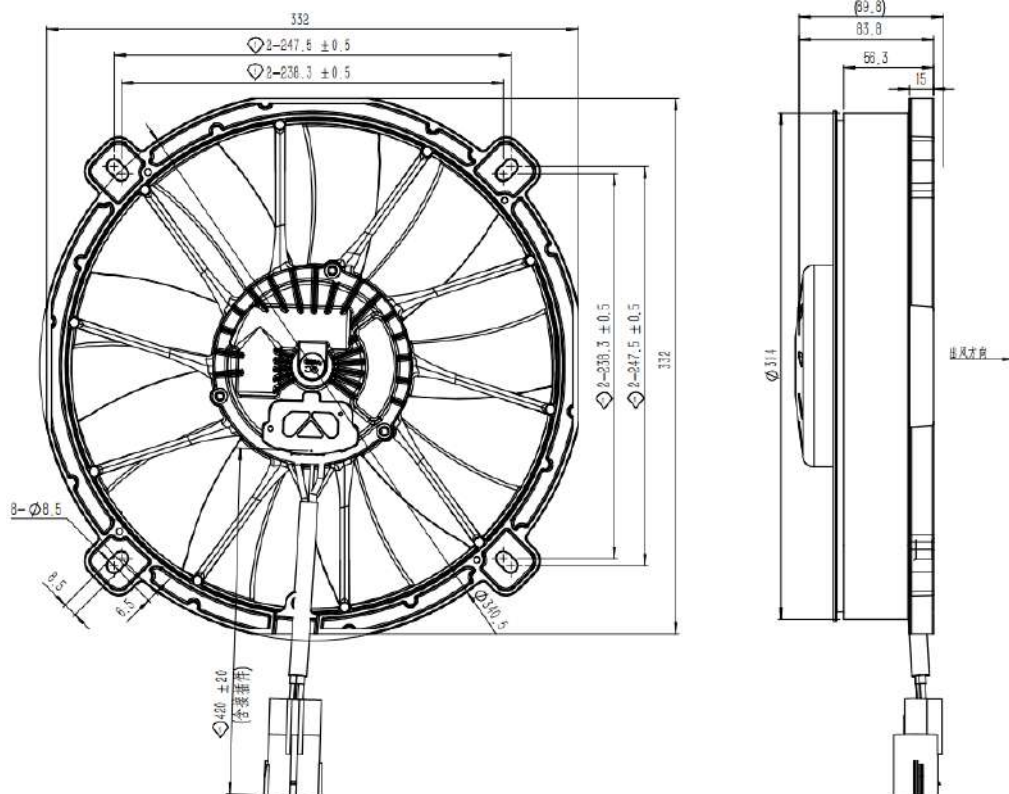
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A1-24BL9862-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	1000W	M30

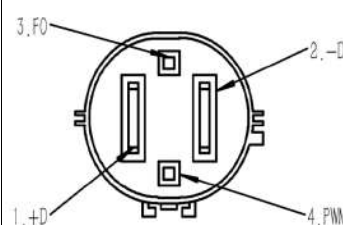
FEATURES | 主要参数

Max fan speed 最大转速	rpm	5200
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	88
Weight 重量	kg	3.4
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	18
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

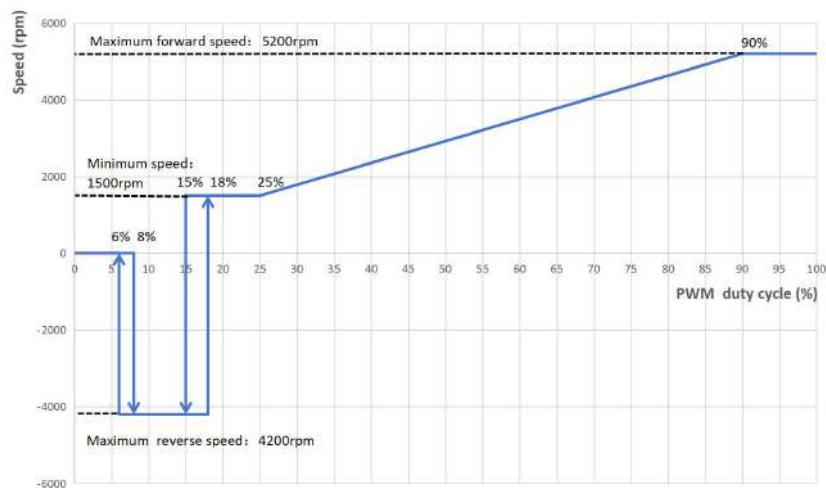
Brand: YAZAKI

Part Number : 7282-8497-90

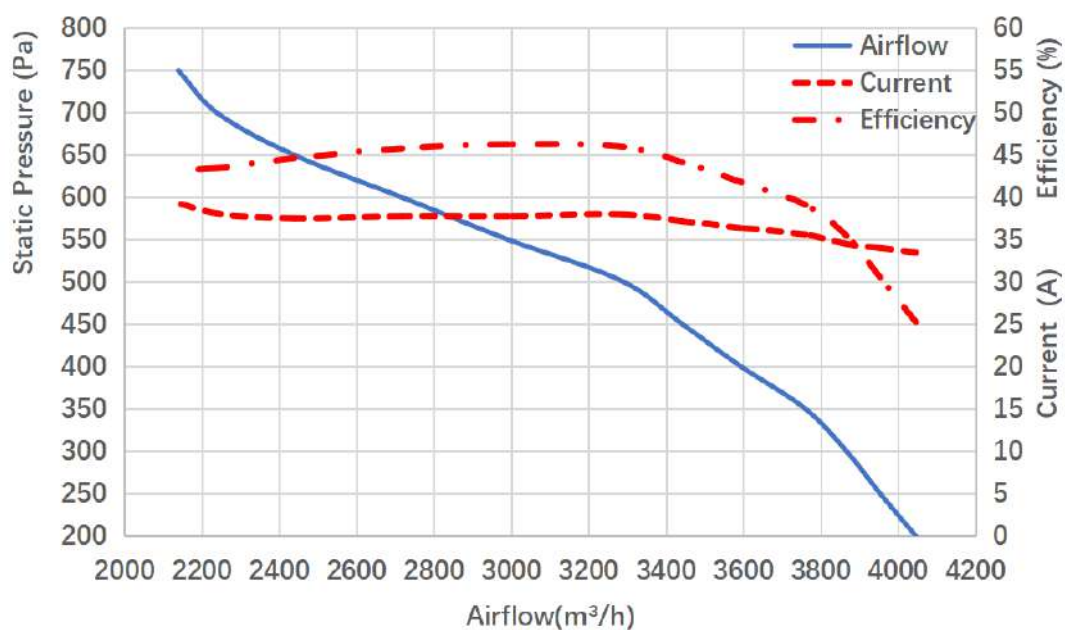
	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	7158-3030-50	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	7114-4102-02	7114-4102-02
	Section [mm²]	10.0	10.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

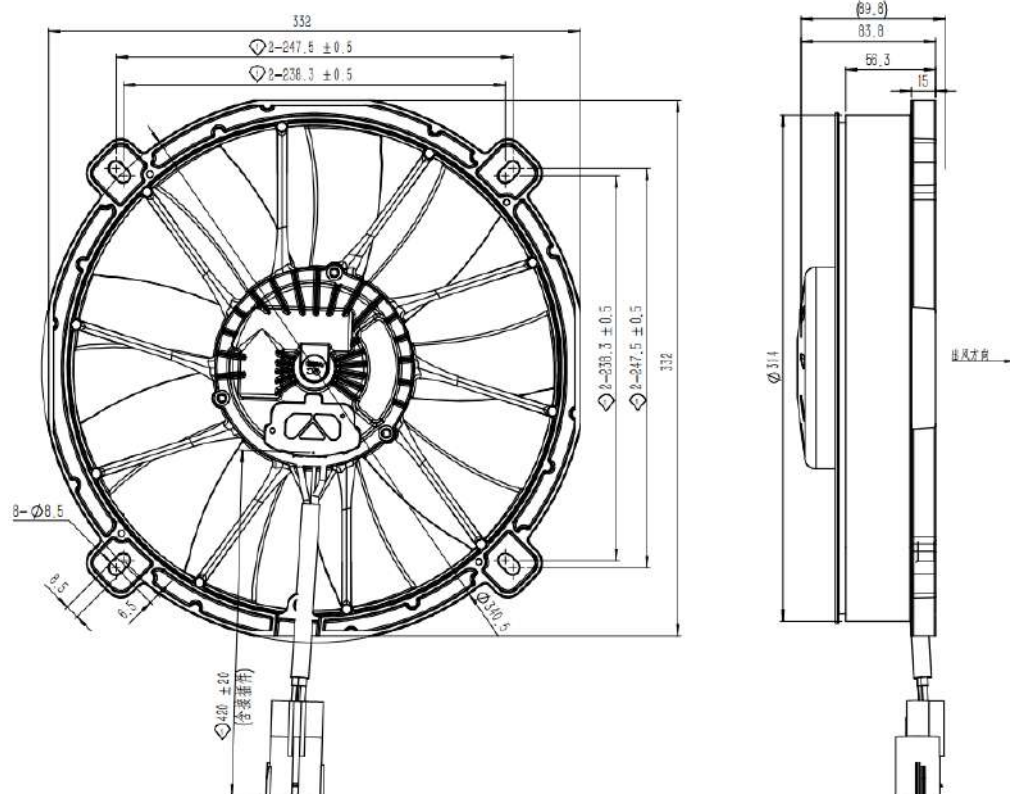
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82A1-24BL9962-32S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	1000W	M30

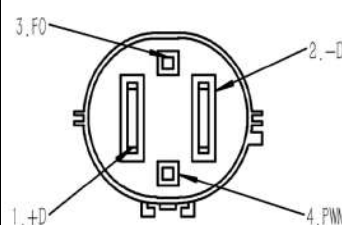
FEATURES | 主要参数

Max fan speed 最大转速	rpm	5500
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	89
Weight 重量	kg	3.4
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	20
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Aluminum 铝合金	
Shroud material flame retardant rating 框架材料阻燃等级	/	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6 or M8	
Mounting torque 装配力矩	M6-3(+1/0) Nm or M8-4(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

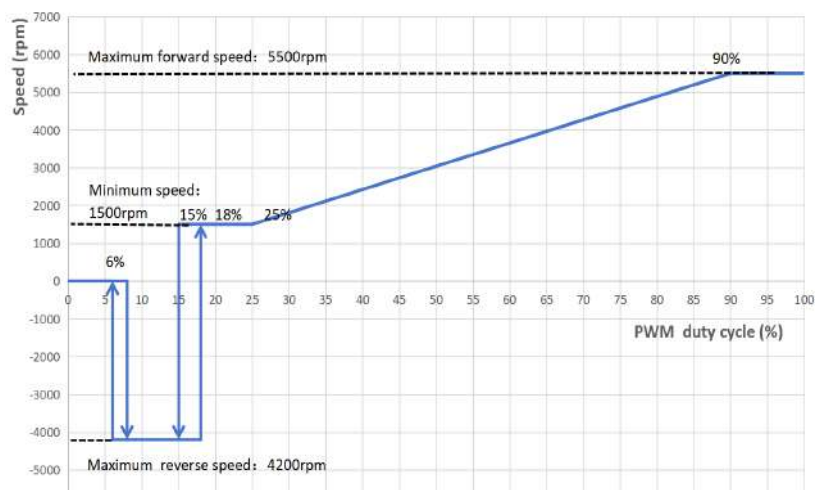
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	7158-3030-50	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	7114-4102-02	7114-4102-02
	Section [mm²]	10.0	10.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

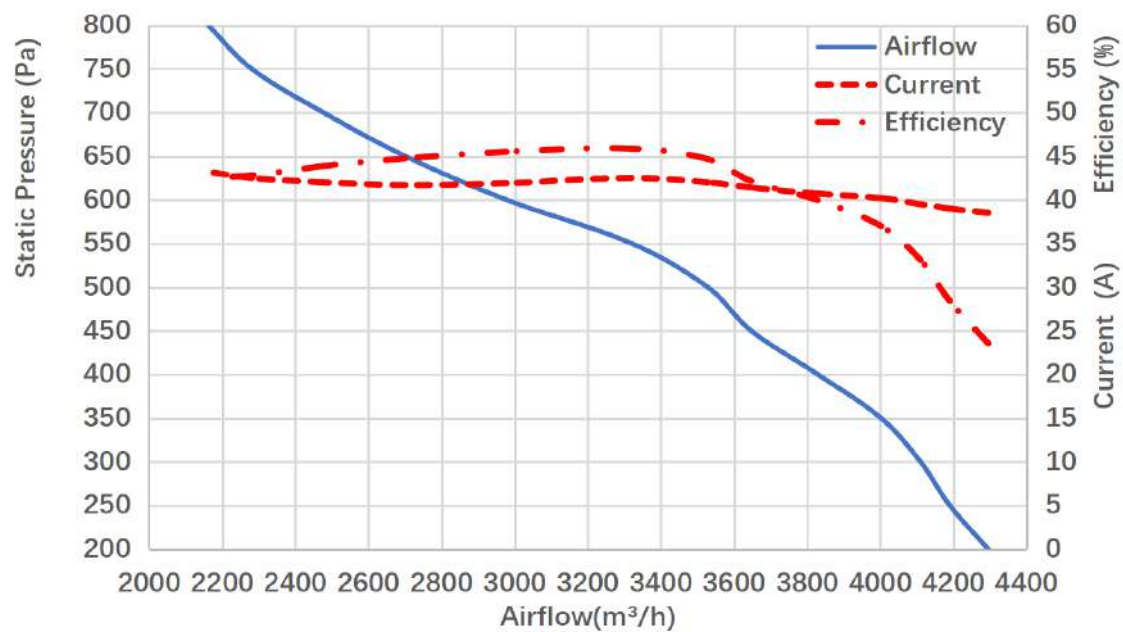
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

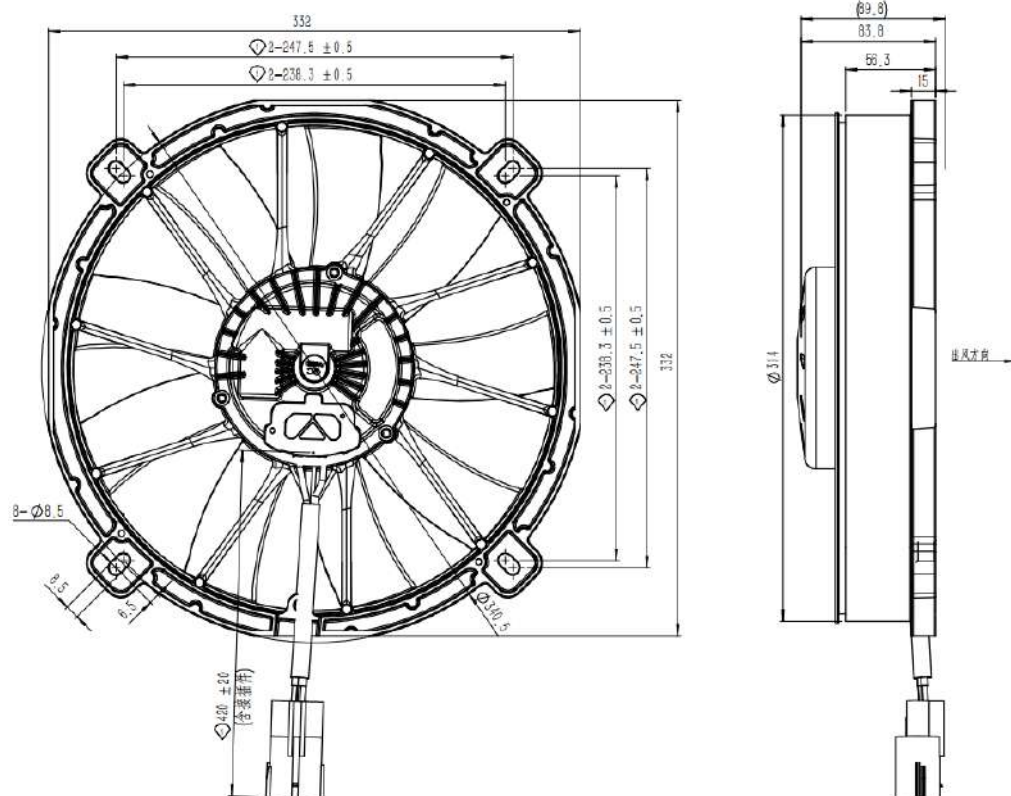
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL7155-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	150W	M50

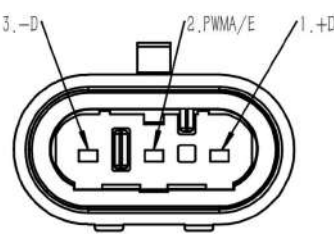
FEATURES | 主要参数

Max fan speed 最大转速	rpm	2600
Min fan speed 最小转速	rpm	600
Sound pressure level at max speed 最大转速噪音	dBA	69
Weight 重量	kg	2.3
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PPS+30GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:AMP

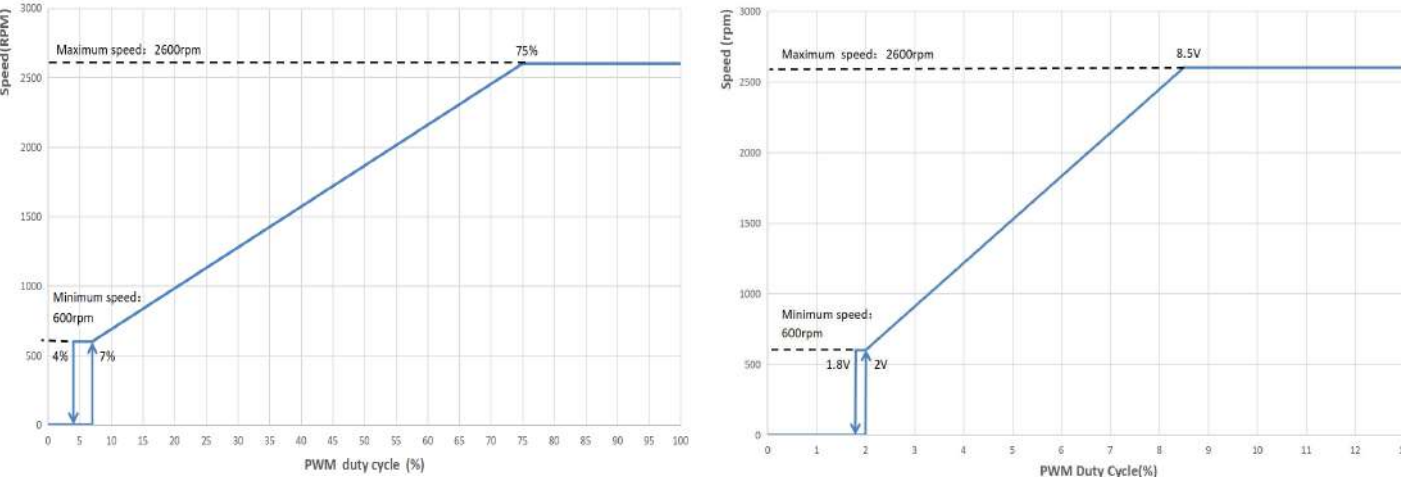
Part Number : 282105-1

	Identification(*)	+D	-D	PWMA/E	/
	Pin Number	1	3	2	/
	Wire Color	Red	Black	Blue	/
	Sealing p/n	281934-3	281934-3	281934-2	/
	Pin p/n	282465-1	282465-1	282109-1	/
	Section [mm²]	2.5	2.5	0.75	/
Note: Never handle the fan module via the cable harness					

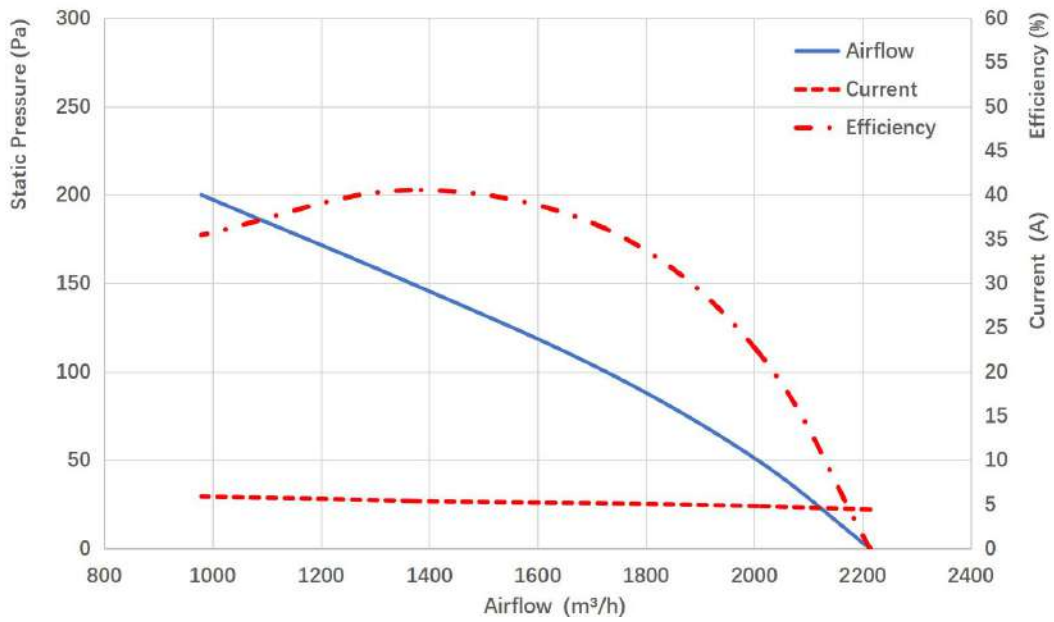
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

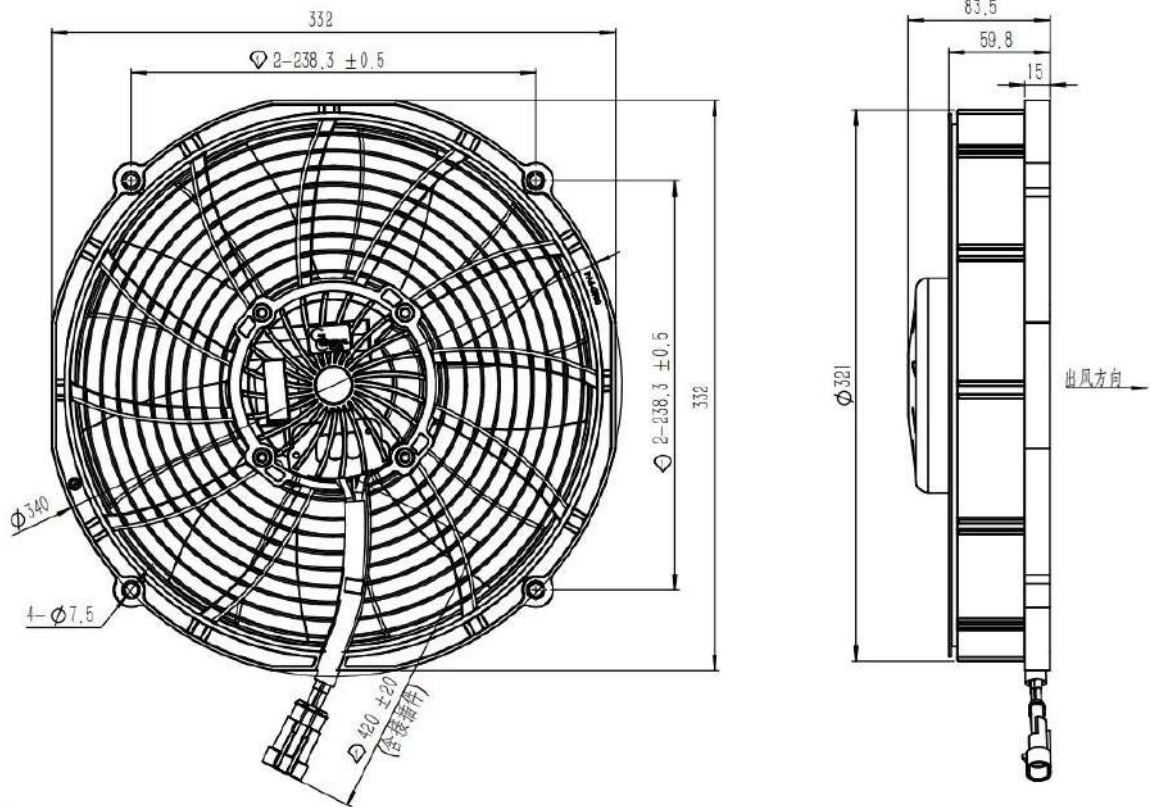
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL7205-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	200W	M50

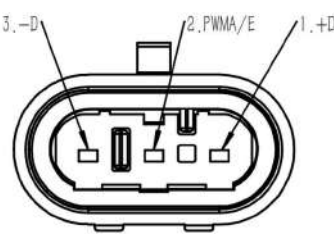
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3100
Min fan speed 最小转速	rpm	600
Sound pressure level at max speed 最大转速噪音	dBA	72
Weight 重量	kg	2.3
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PPS+30GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:AMP

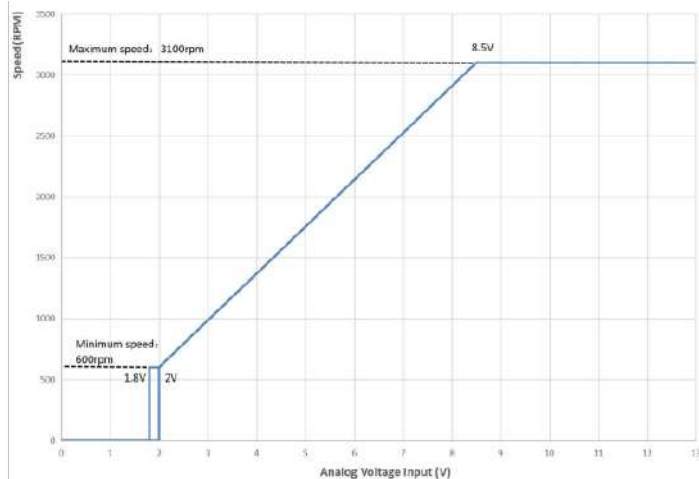
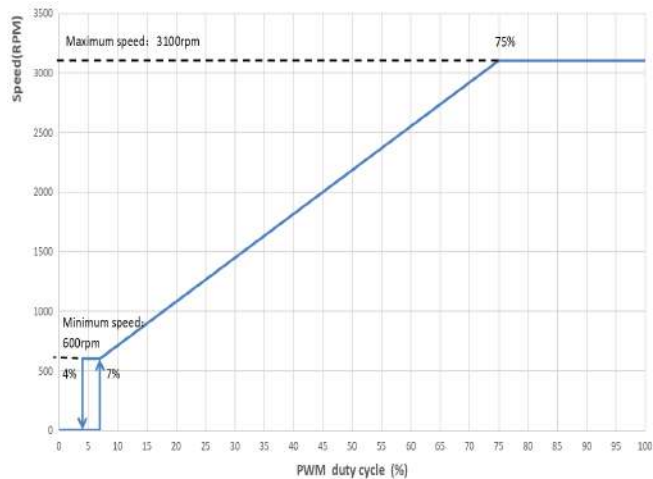
Part Number : 282105-1

	Identification(*)	+D	-D	PWMA/E	/
	Pin Number	1	3	2	/
	Wire Color	Red	Black	Blue	/
	Sealing p/n	281934-3	281934-3	281934-2	/
	Pin p/n	282465-1	282465-1	282109-1	/
	Section [mm²]	2.5	2.5	0.75	/
Note: Never handle the fan module via the cable harness					

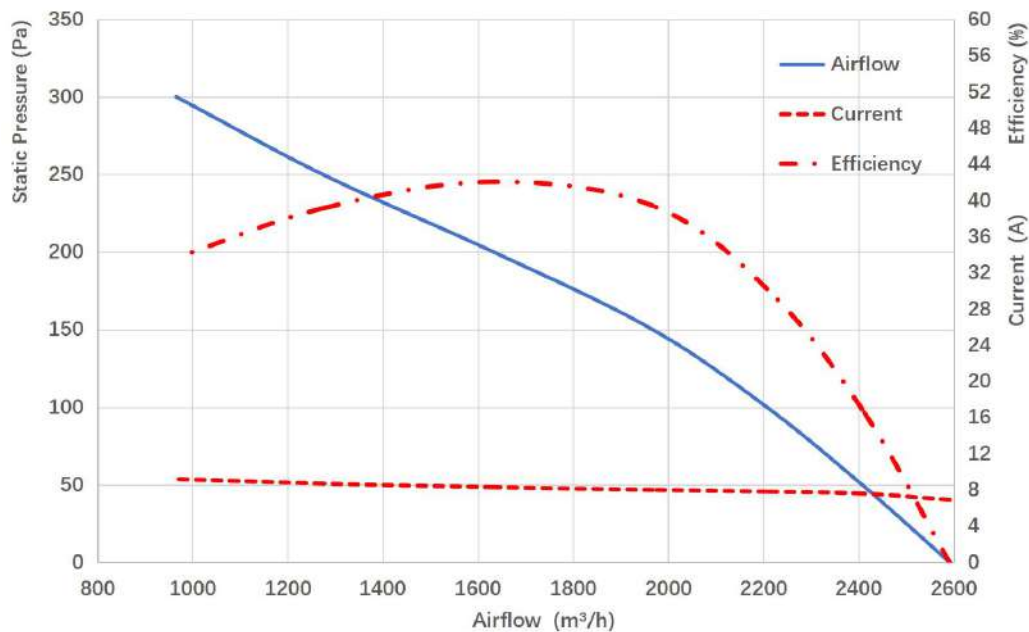
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

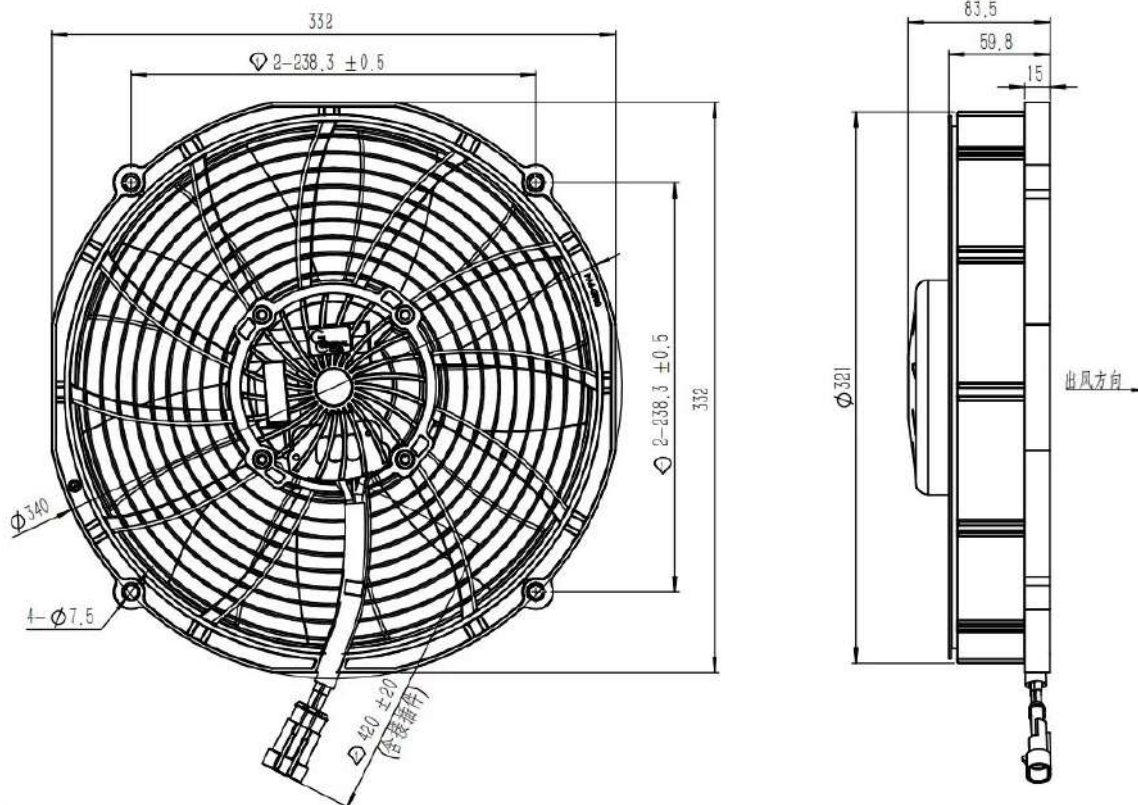
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL7206-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	200W	M50

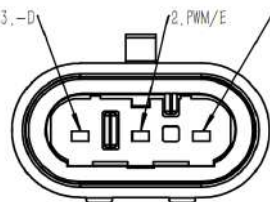
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3100
Min fan speed 最小转速	rpm	600
Sound pressure level at max speed 最大转速噪音	dBA	72
Weight 重量	kg	2.3
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PPS+30GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

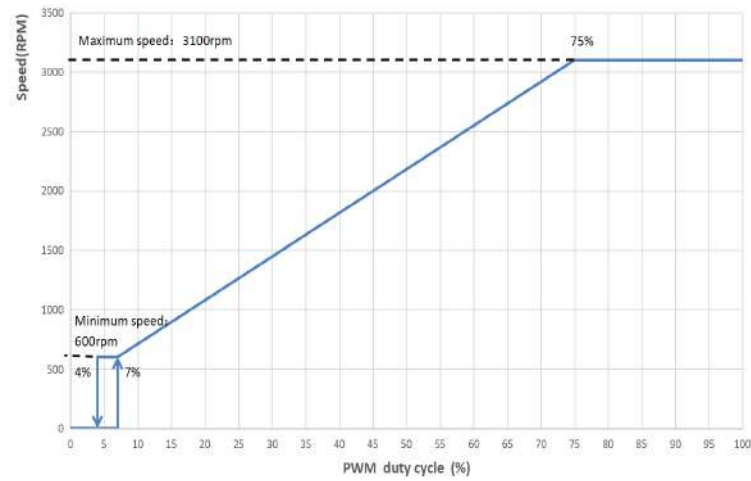
Brand:AMP

Part Number : 282105-1

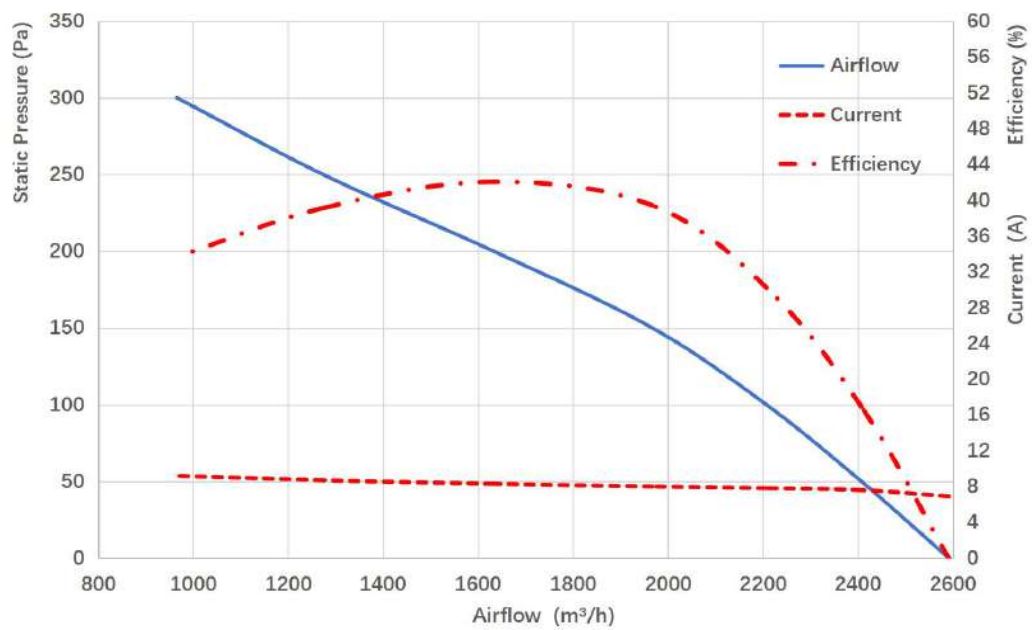
	Identification(*)	+D	-D	PWM/E	/
	Pin Number	1	3	2	/
	Wire Color	Red	Black	Blue	/
	Sealing p/n	281934-3	281934-3	281934-2	/
	Pin p/n	282465-1	282465-1	282109-1	/
	Section [mm²]	2.5	2.5	0.75	/
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

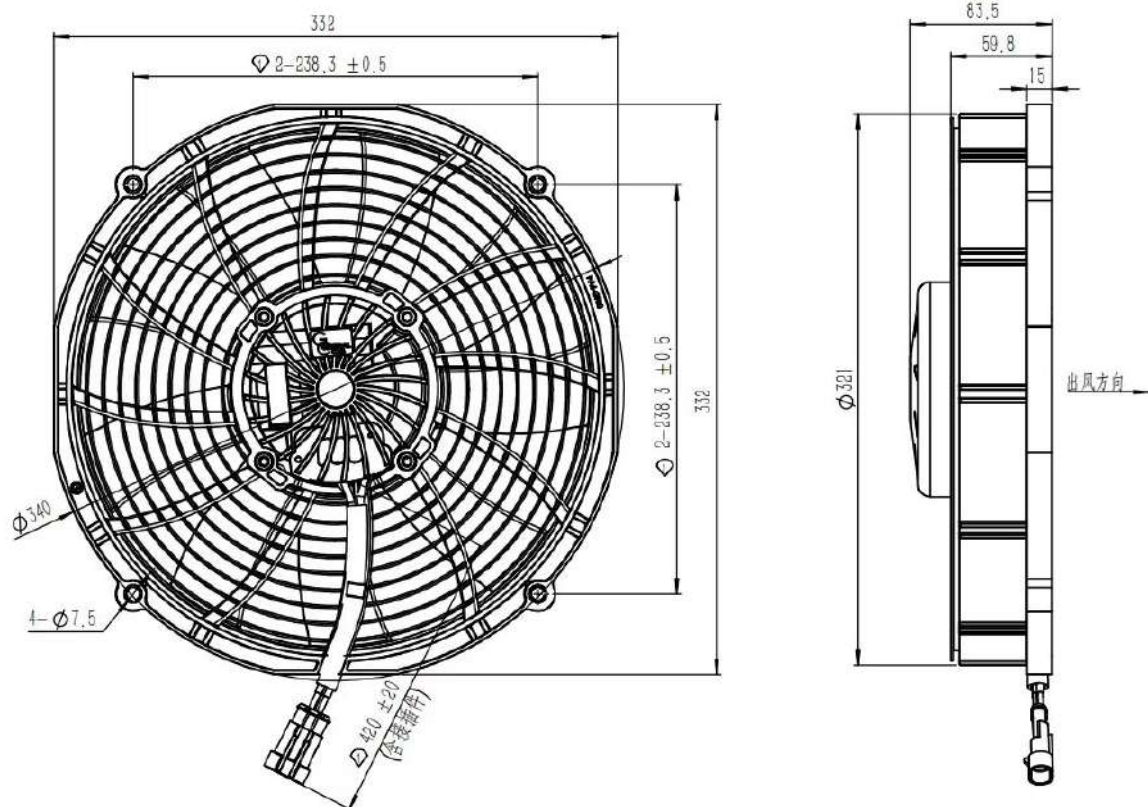
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24B7302-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	300W	M50

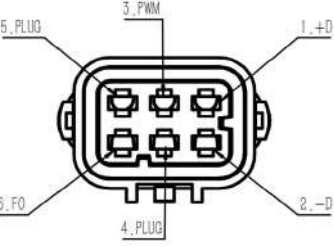
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3500
Min fan speed 最小转速	rpm	1000
Sound pressure level at max speed 最大转速噪音	dBA	76
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand:DELPHI

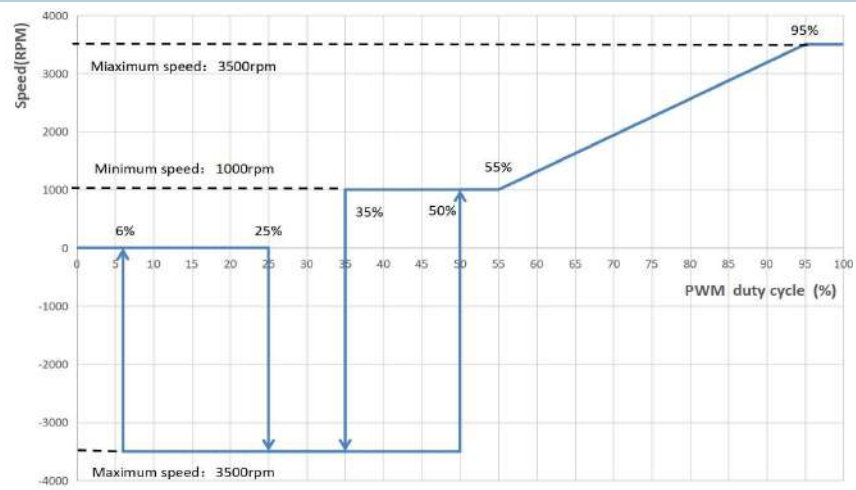
Part Number : 12185126

	Identification(*)	+D	-D	PWM/E	FO
	Pin Number	1	2	3	6
	Wire Color	Red	Black	Blue	White
	Sealing p/n	15324973	15324973	15324974	15324974
	Pin p/n	12185237	12185237	12185129	12185129
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

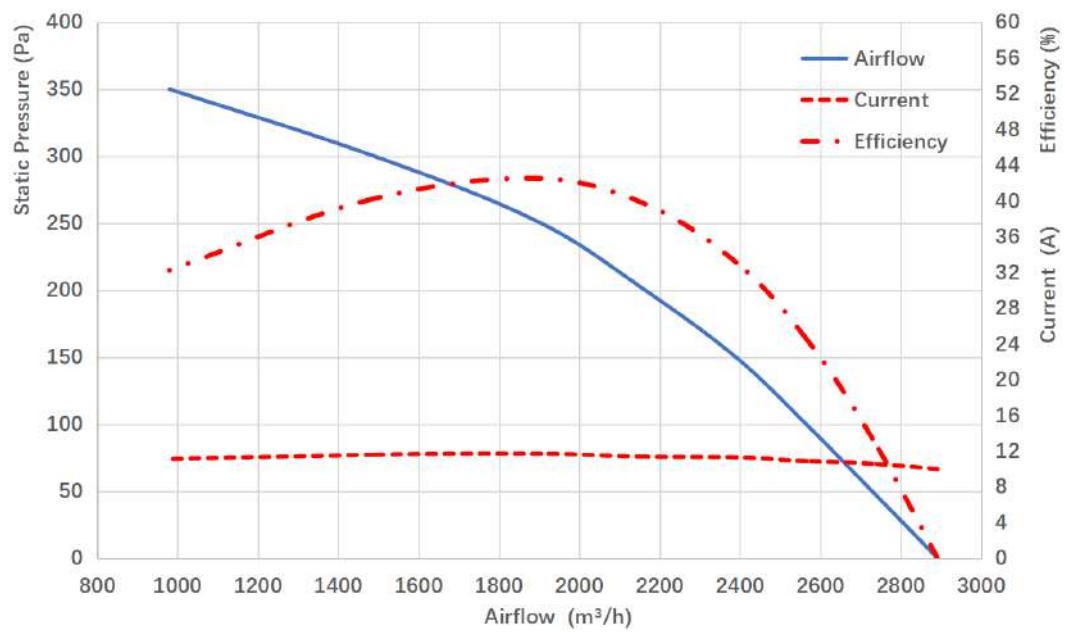
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

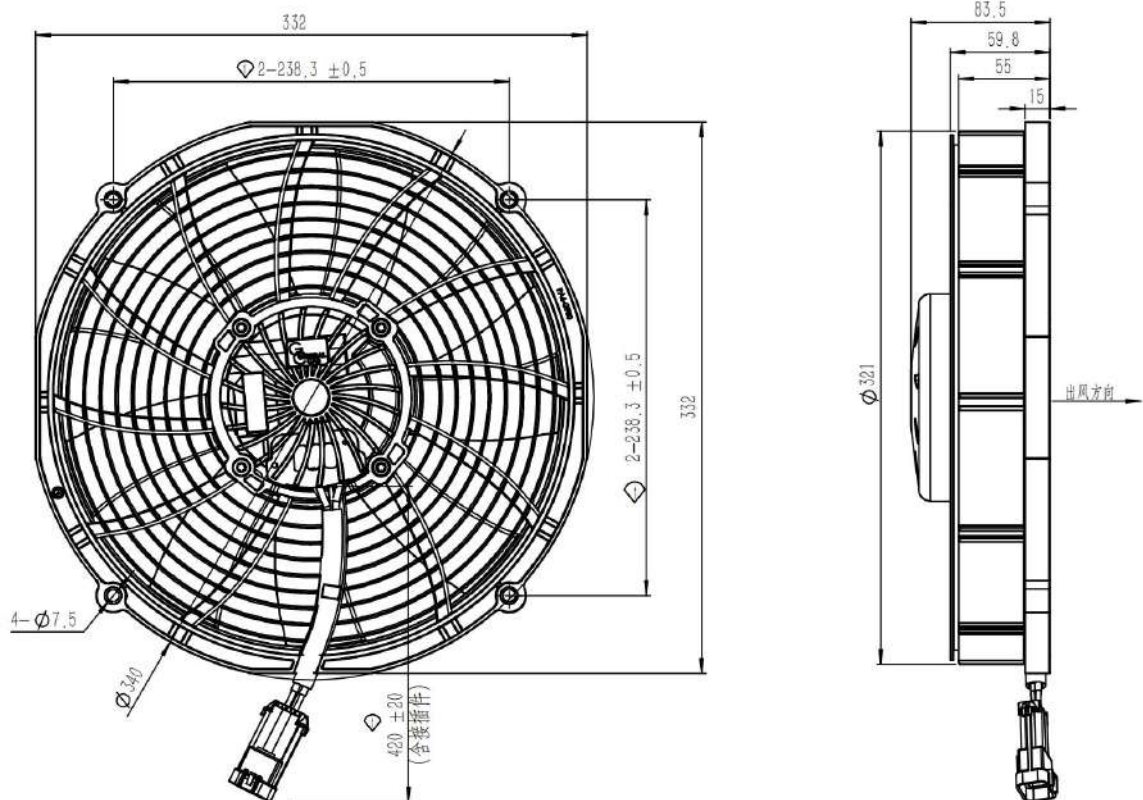
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24B7380-32S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	380W	M50

FEATURES | 主要参数

Max fan speed 最大转速	rpm	3800
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	78
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Cockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

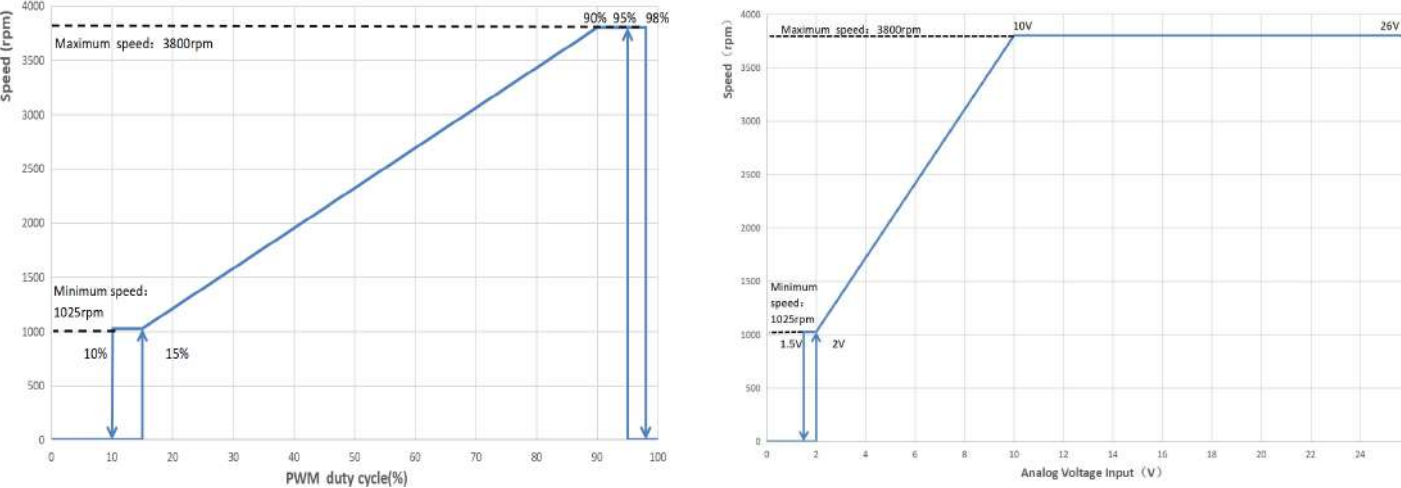
Part Number : 7282-8497-90

	Identification(*)	+D	-D	A	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

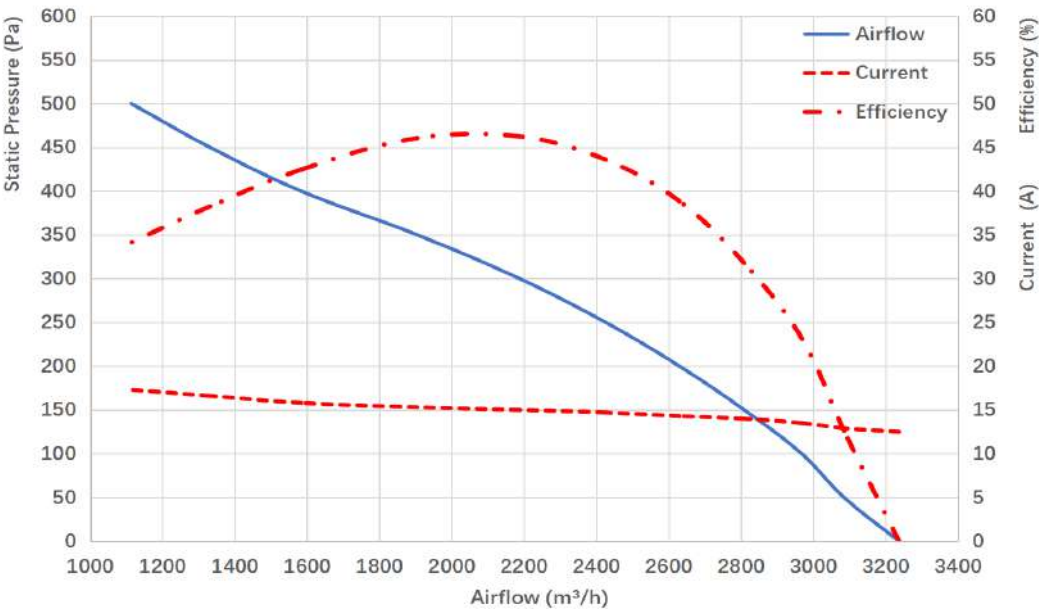
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

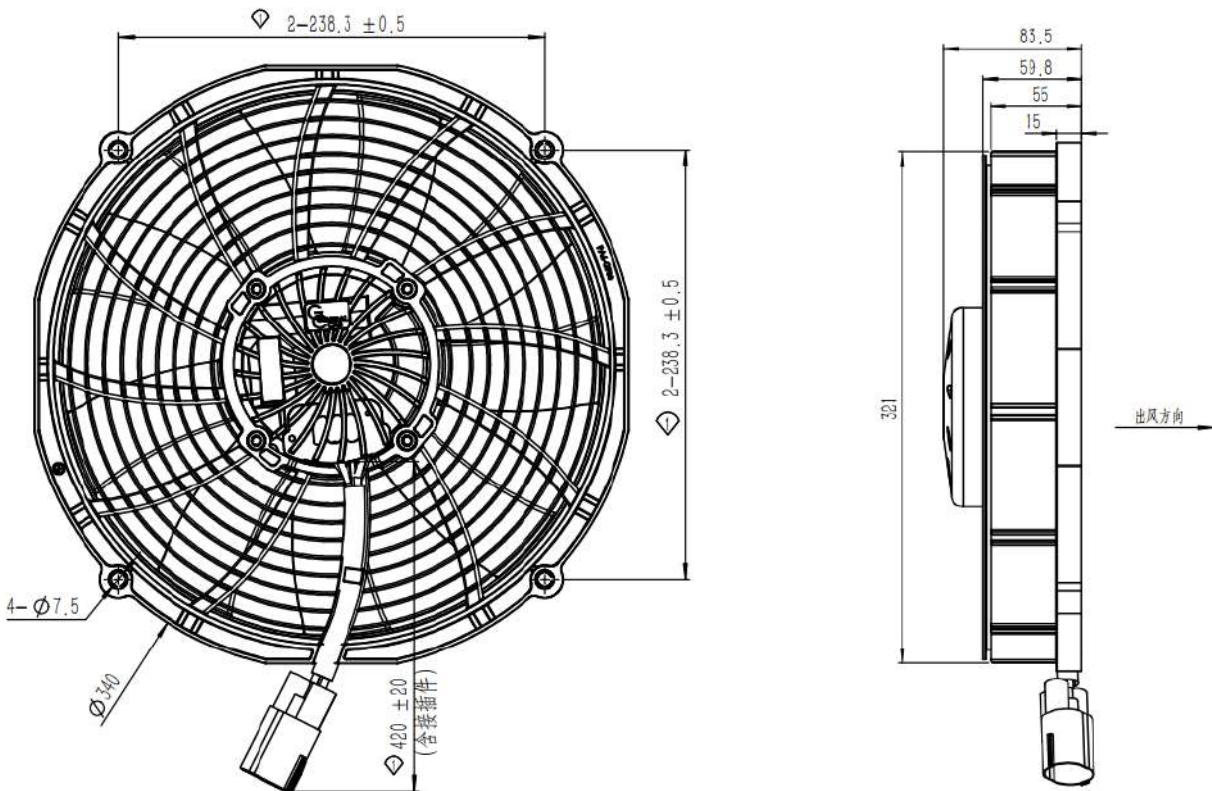
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL7401-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	400W	M50

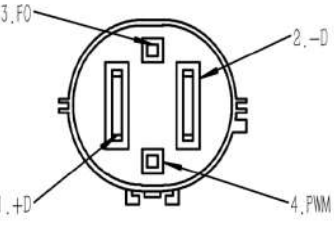
FEATURES | 主要参数

Max fan speed 最大转速	rpm	3800
Min fan speed 最小转速	rpm	1025
Sound pressure level at max speed 最大转速噪音	dBA	78
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	12
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

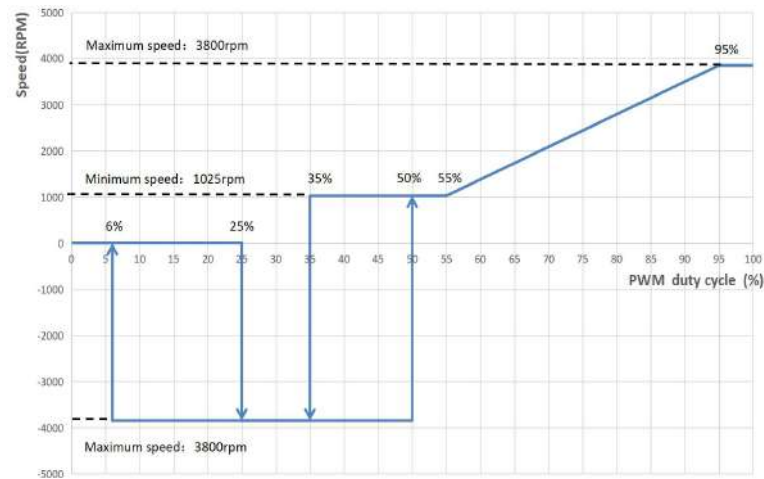
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7157-3580-60	7157-3580-60	7158-3030-50	7158-3030-50
	Pin p/n	7114-3251	7114-3251	7114-4102-02	7114-4102-02
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

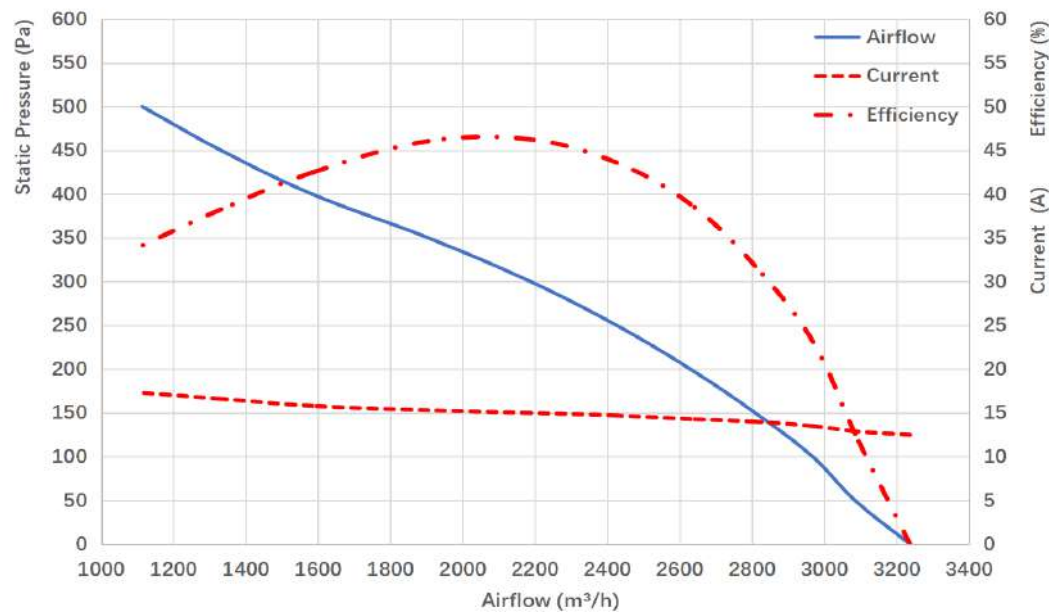
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

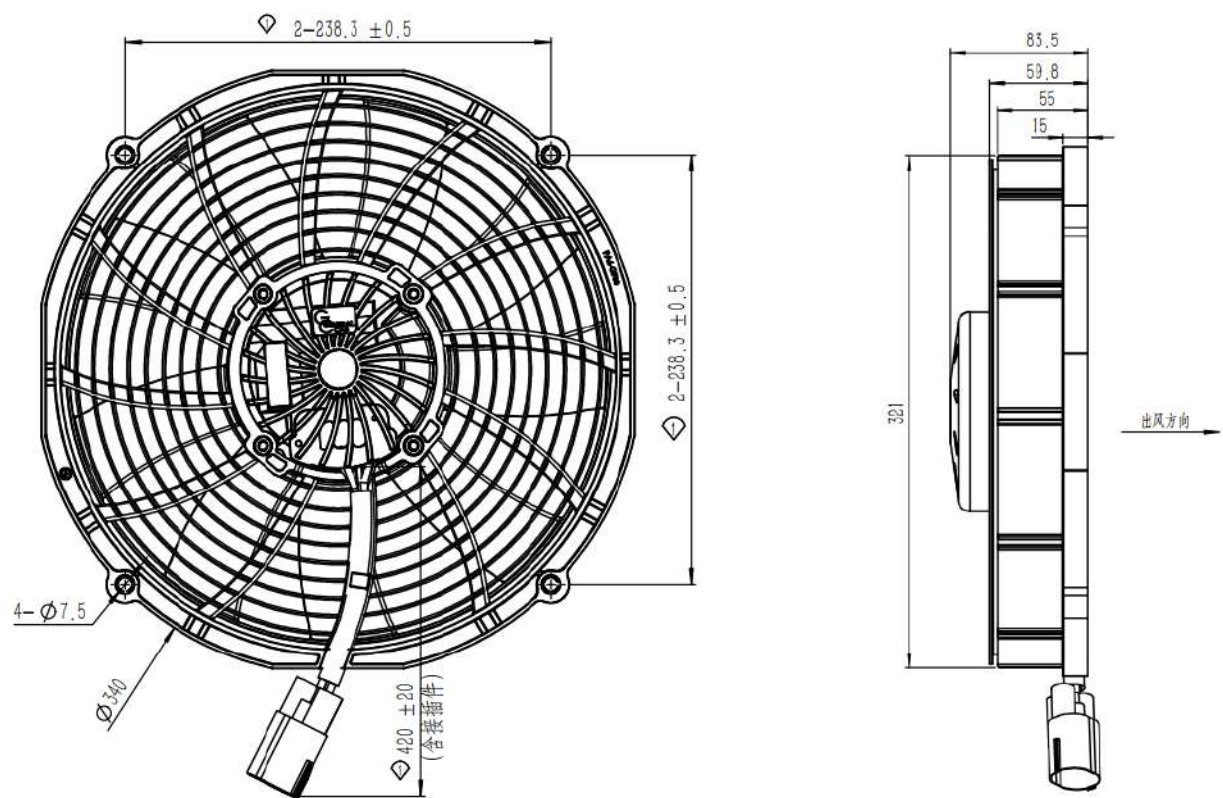
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL7525-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M50

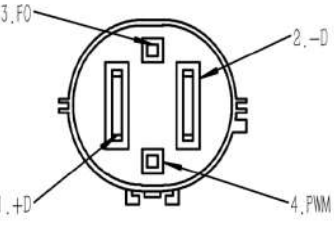
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1250
Sound pressure level at max speed 最大转速噪音	dBA	81
Weight 重量	kg	2.7
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

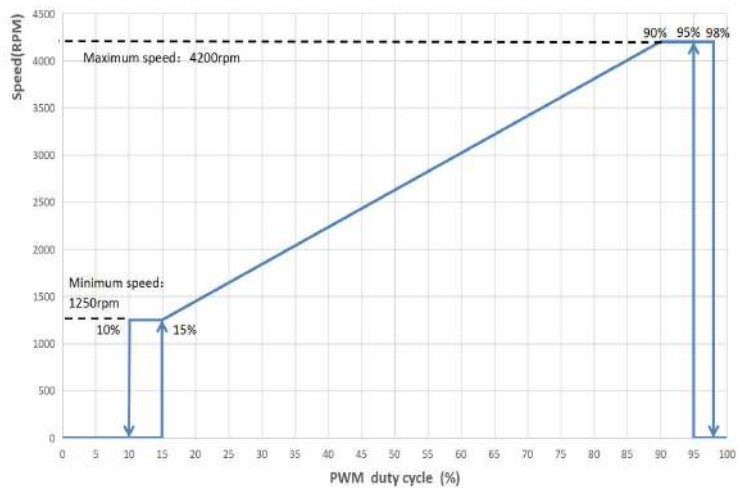
Brand: YAZAKI

Part Number : 7282-8497-90

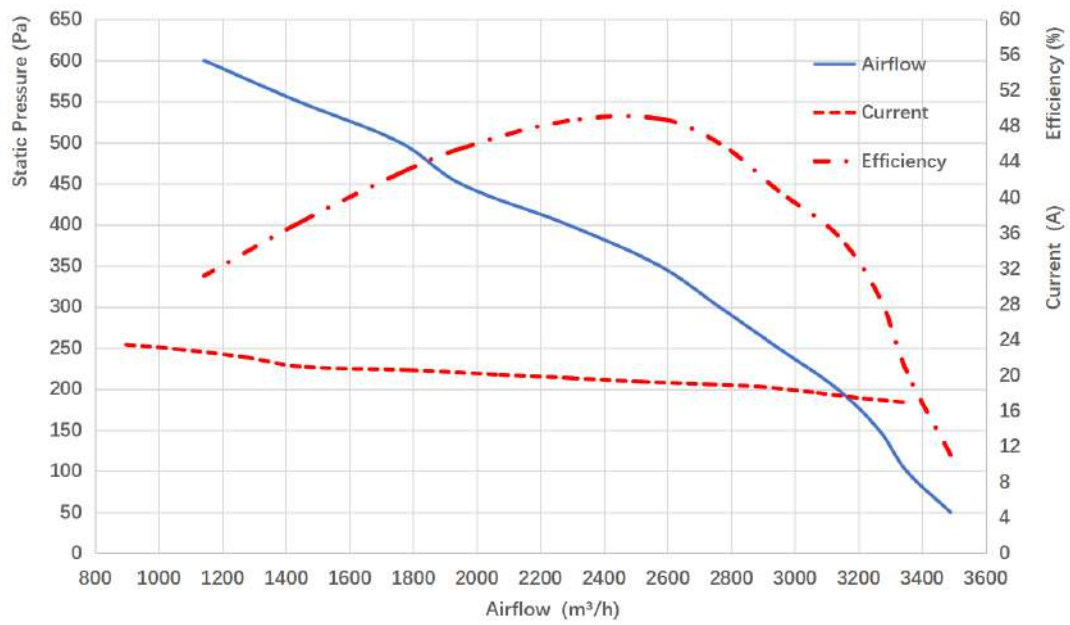
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	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

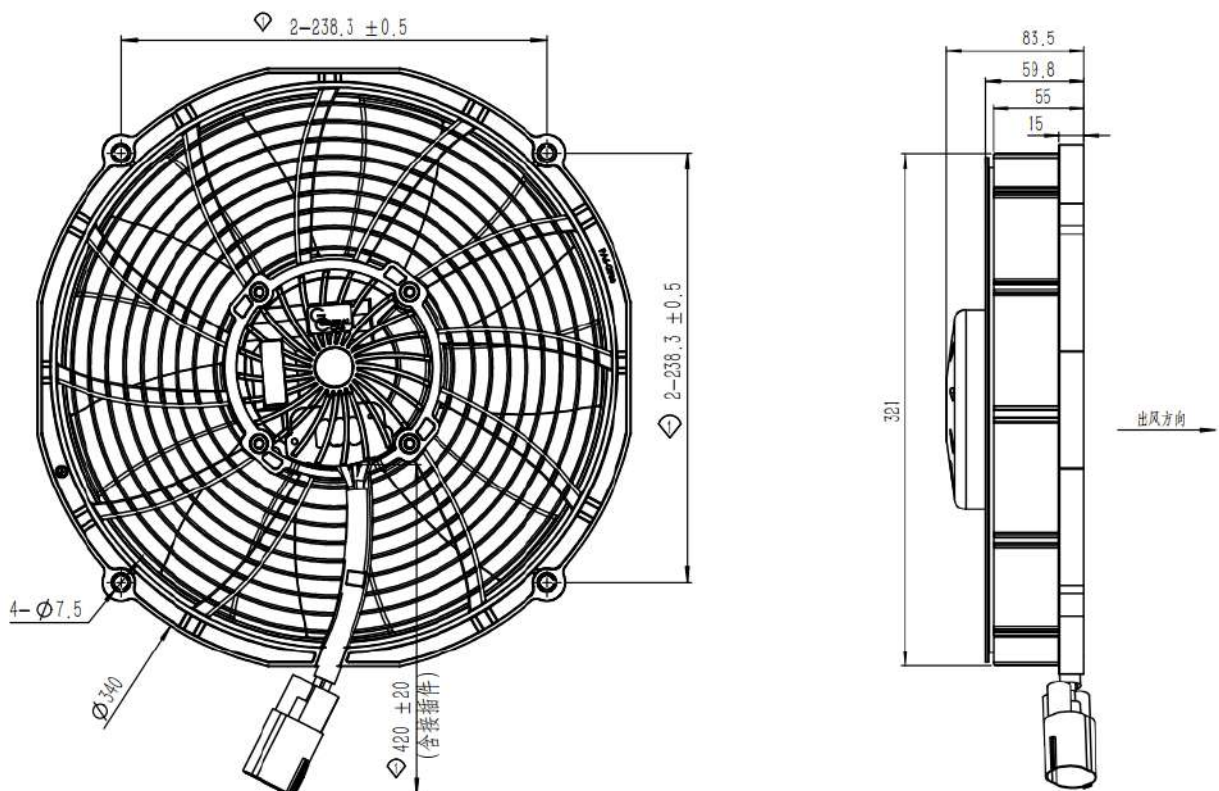
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL7527-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M50

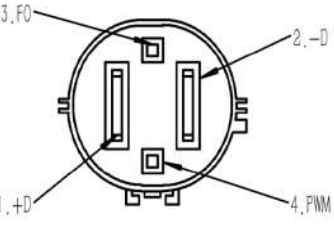
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1250
Sound pressure level at max speed 最大转速噪音	dBA	81
Weight 重量	kg	2.7
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

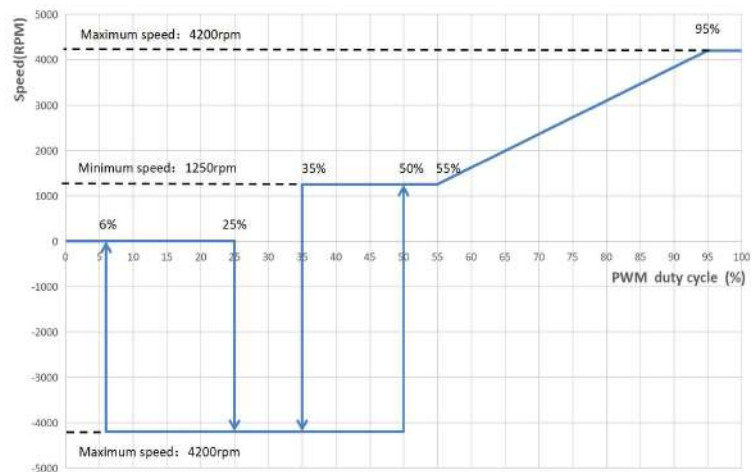
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

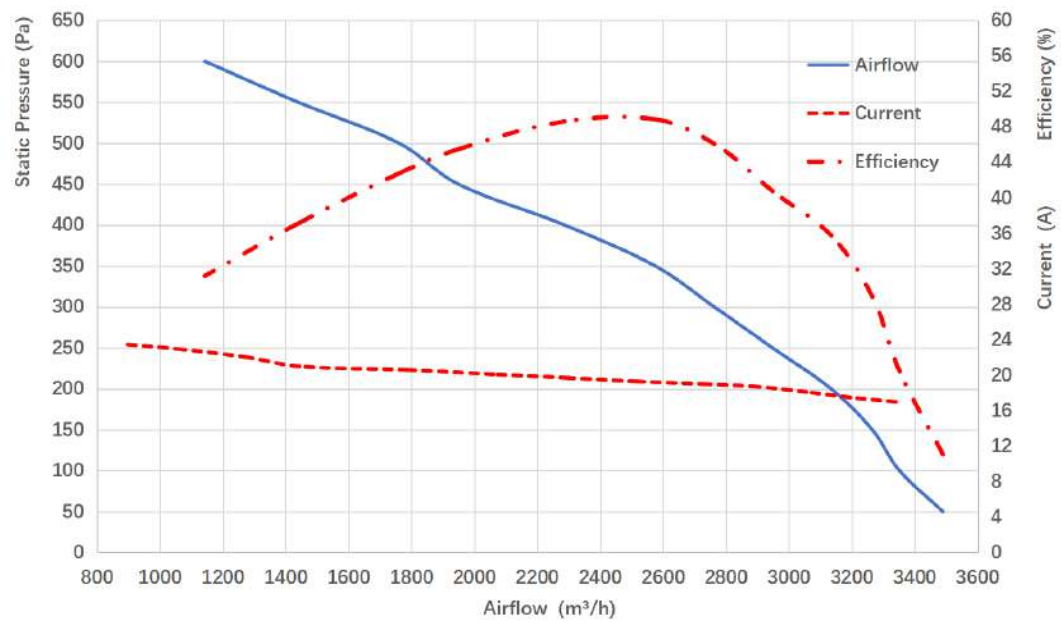
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

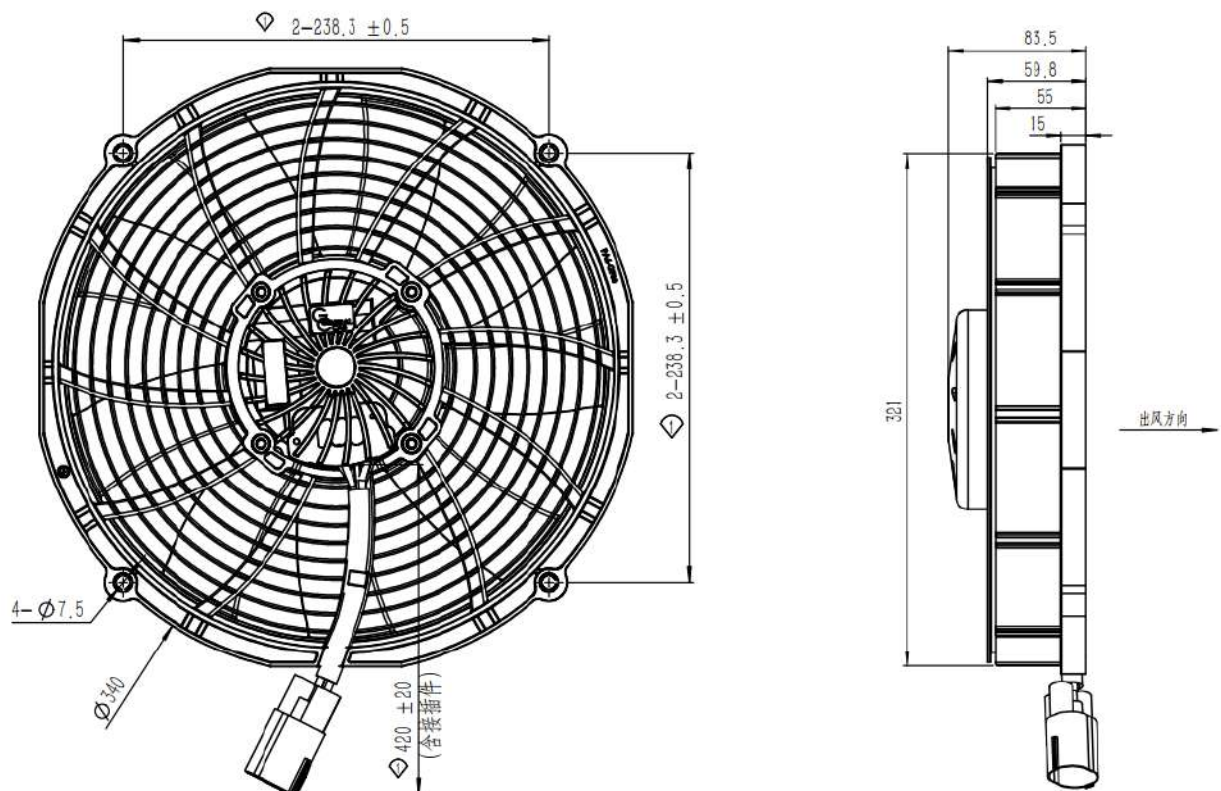
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL8861-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

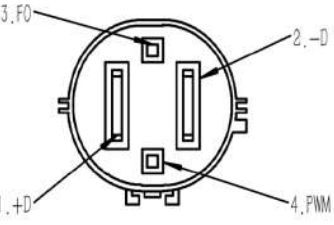
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	85
Weight 重量	kg	3.0
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

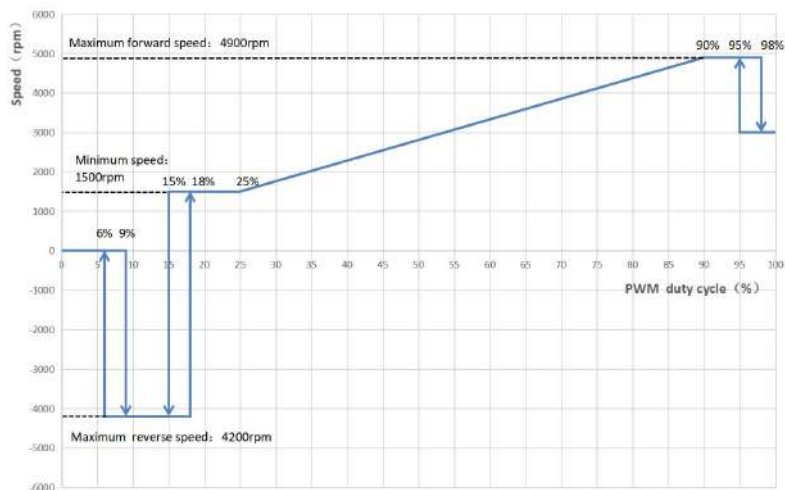
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

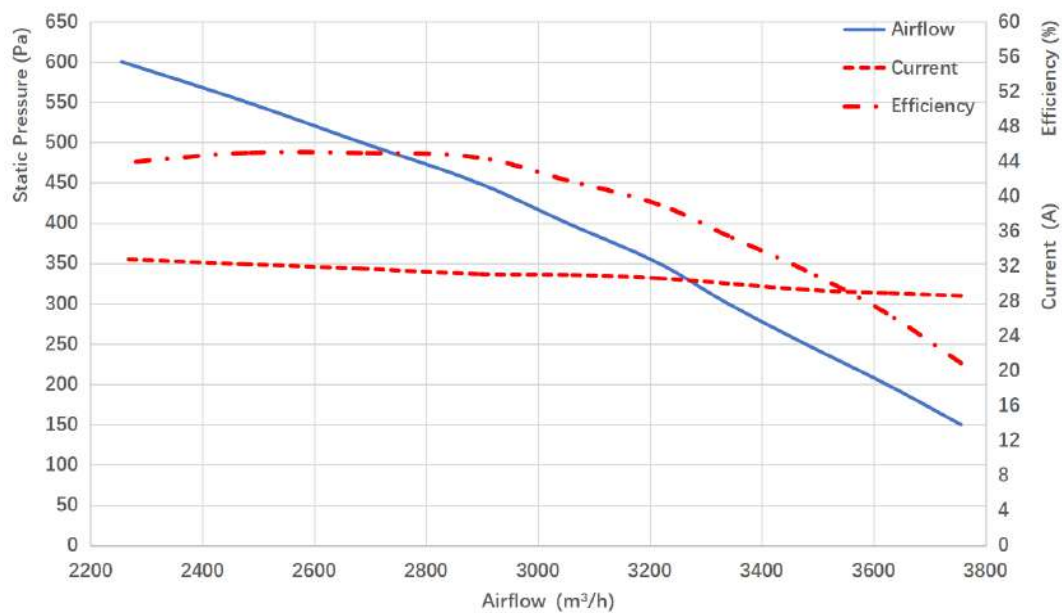
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

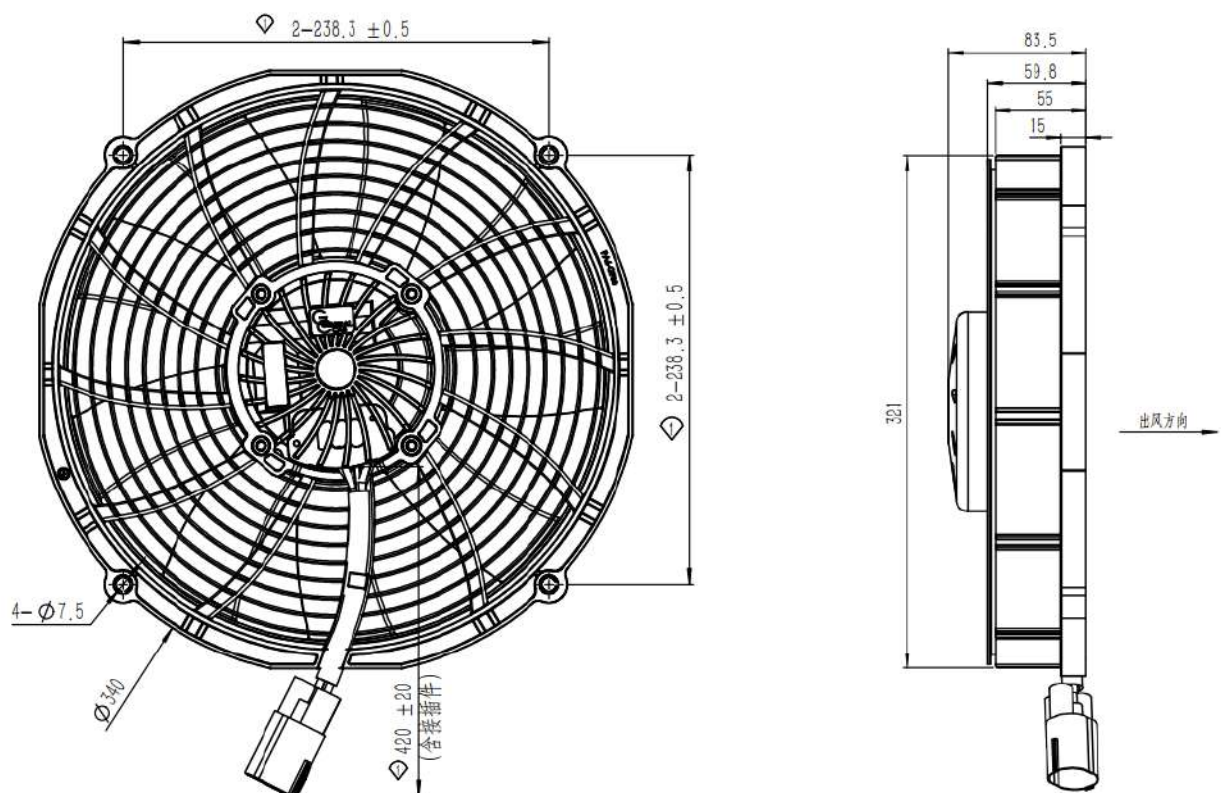
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL8862-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

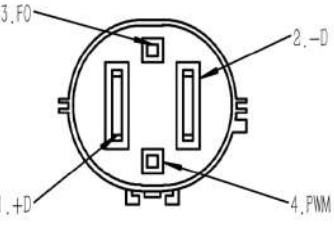
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	85
Weight 重量	kg	3.0
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

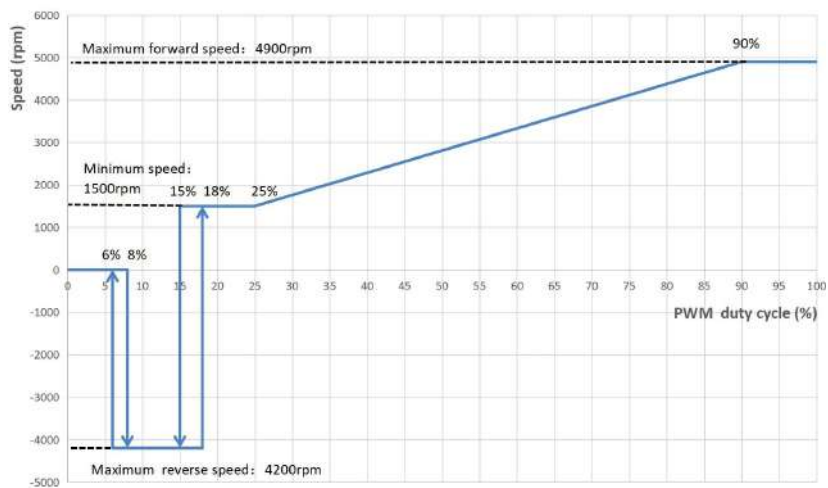
Brand: YAZAKI

Part Number : 7282-8497-90

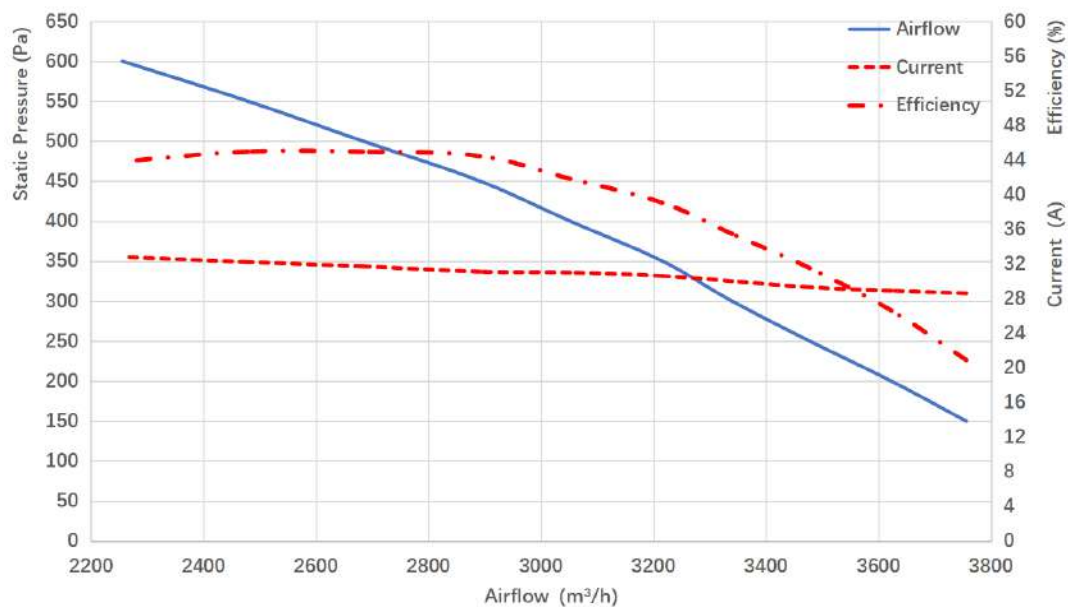
	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

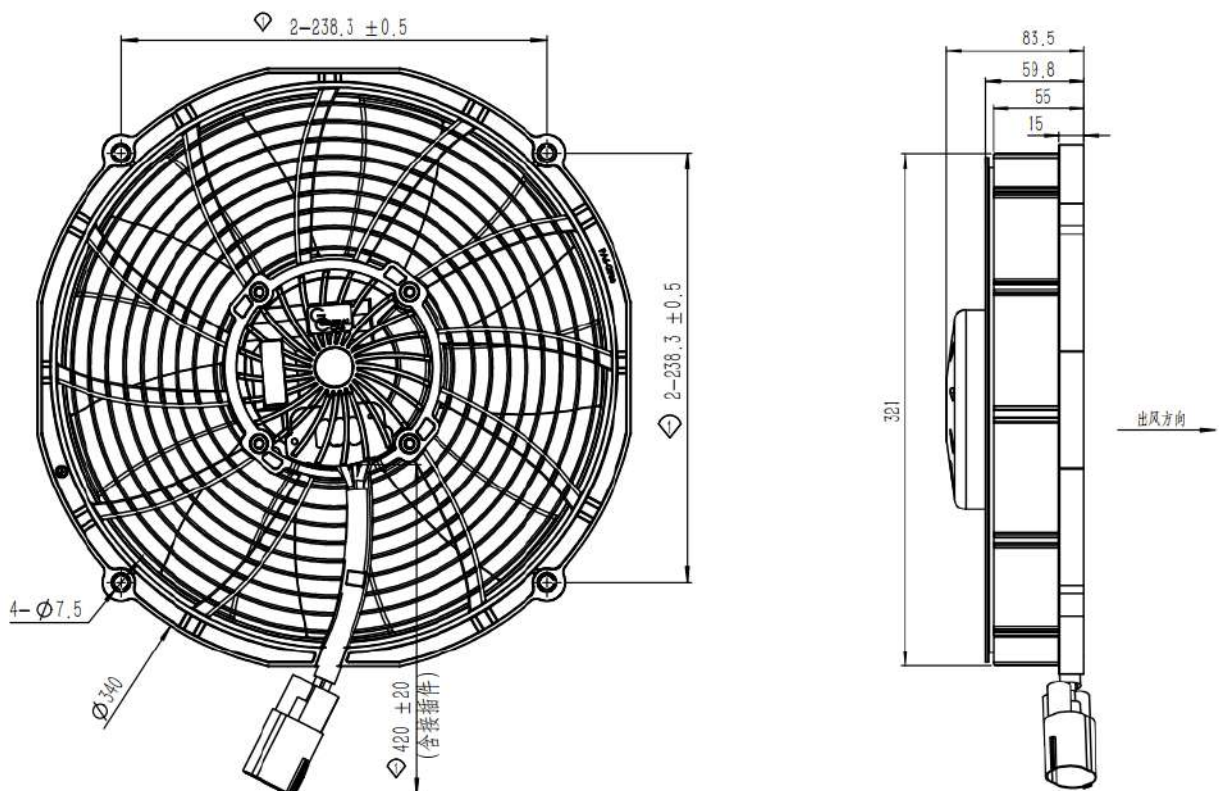
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL8864-32S

FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	800W	M30

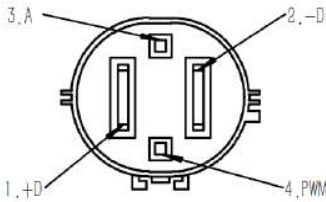
FEATURES | 主要参数

Max fan speed 最大转速	rpm	4900
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	85
Weight 重量	kg	3.0
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

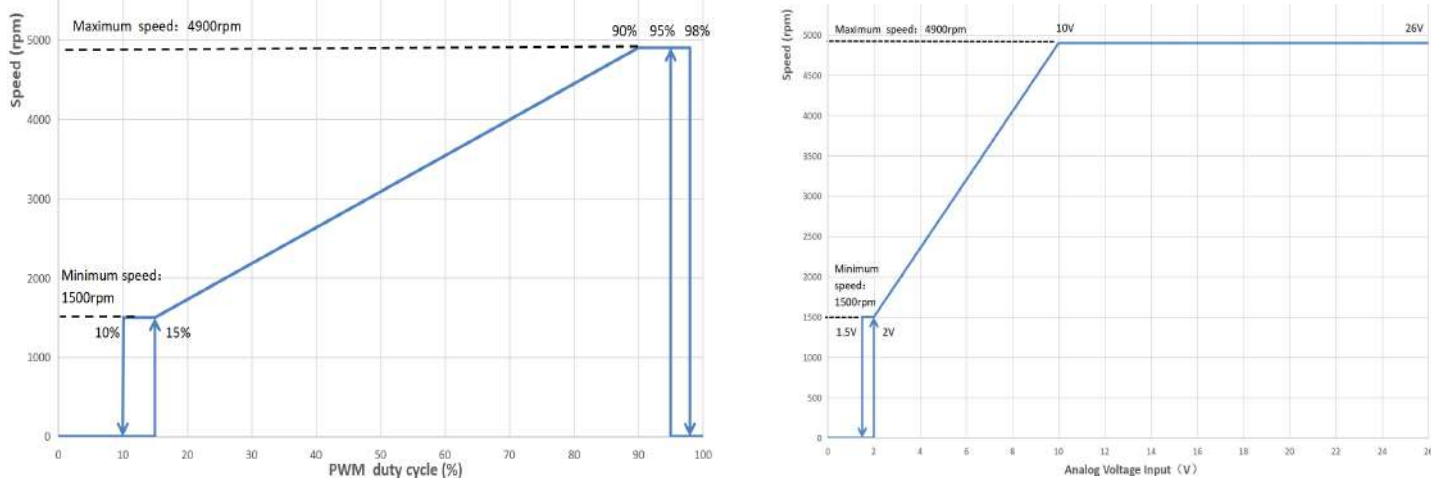
Part Number : 7282-8497-90

	Identification(*)	+D	-D	A	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

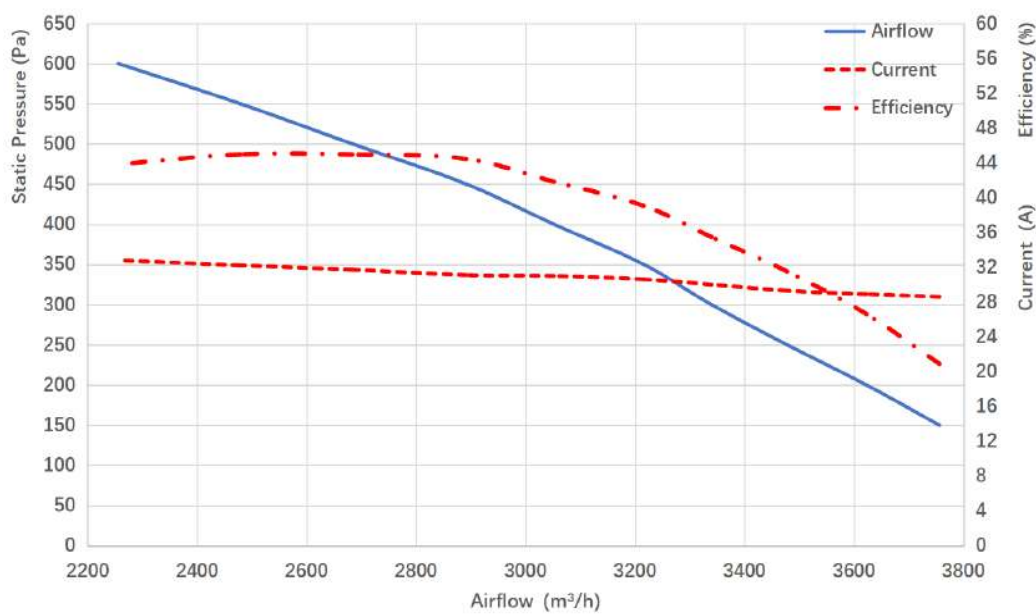
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

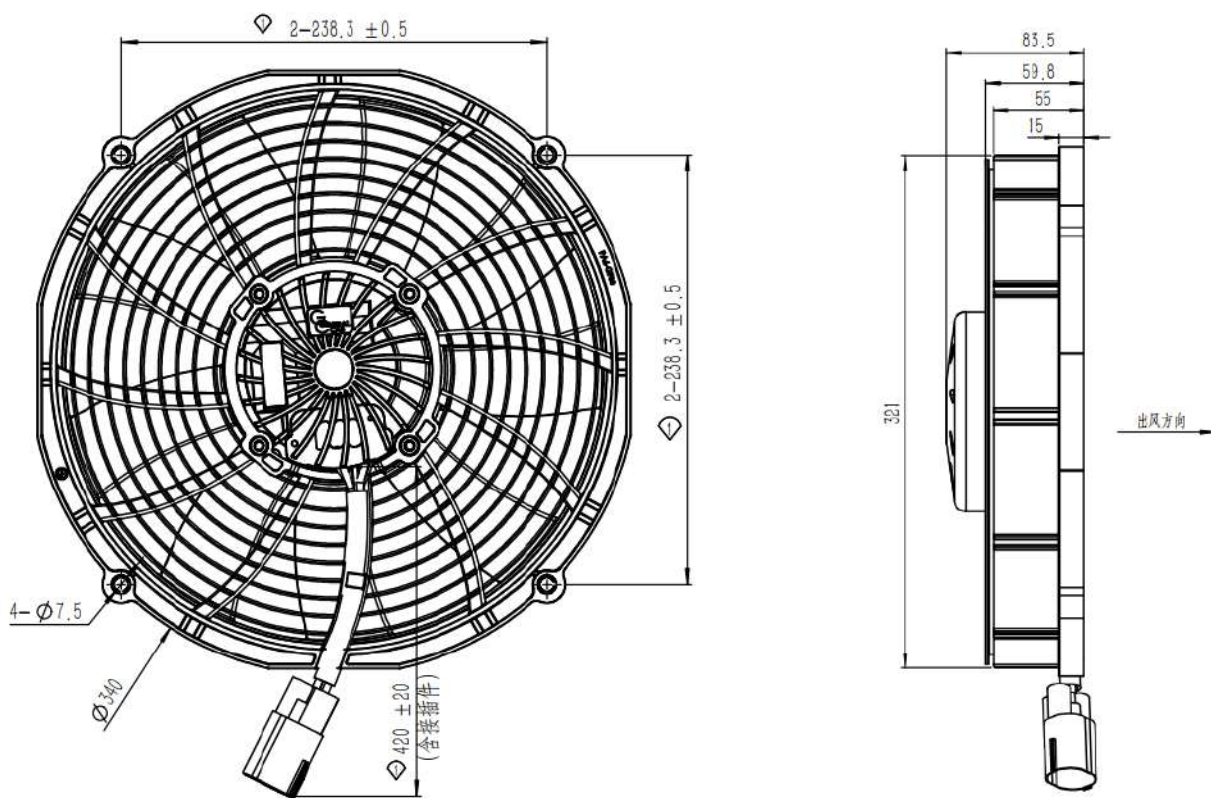
PWM/ANALOG INPUT | PWM/模拟电压输入



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F82B-24BL9862-32S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	1000W	M30

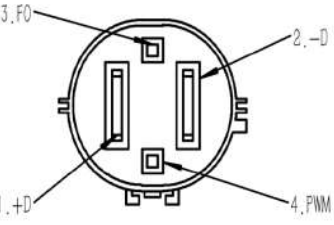
FEATURES | 主要参数

Max fan speed 最大转速	rpm	5200
Min fan speed 最小转速	rpm	1500
Sound pressure level at max speed 最大转速噪音	dBA	88
Weight 重量	kg	3.0
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	18
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

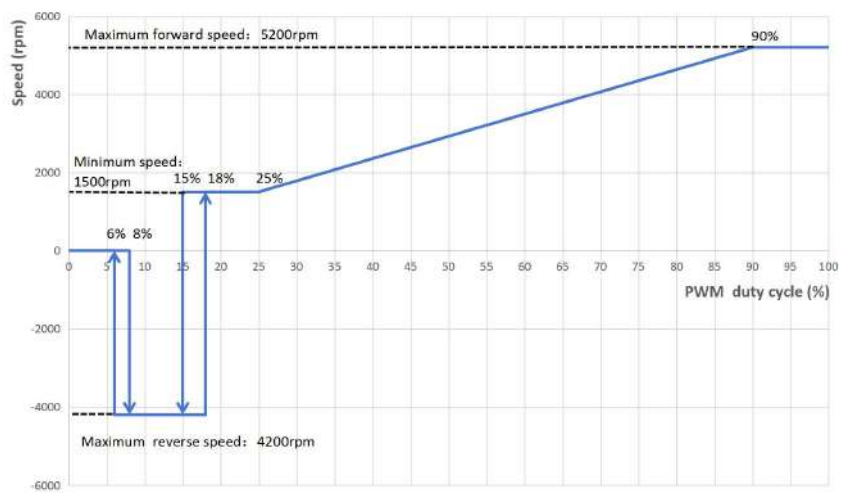
Part Number : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	7158-3030-50	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	7114-4102-02	7114-4102-02
	Section [mm²]	10.0	10.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

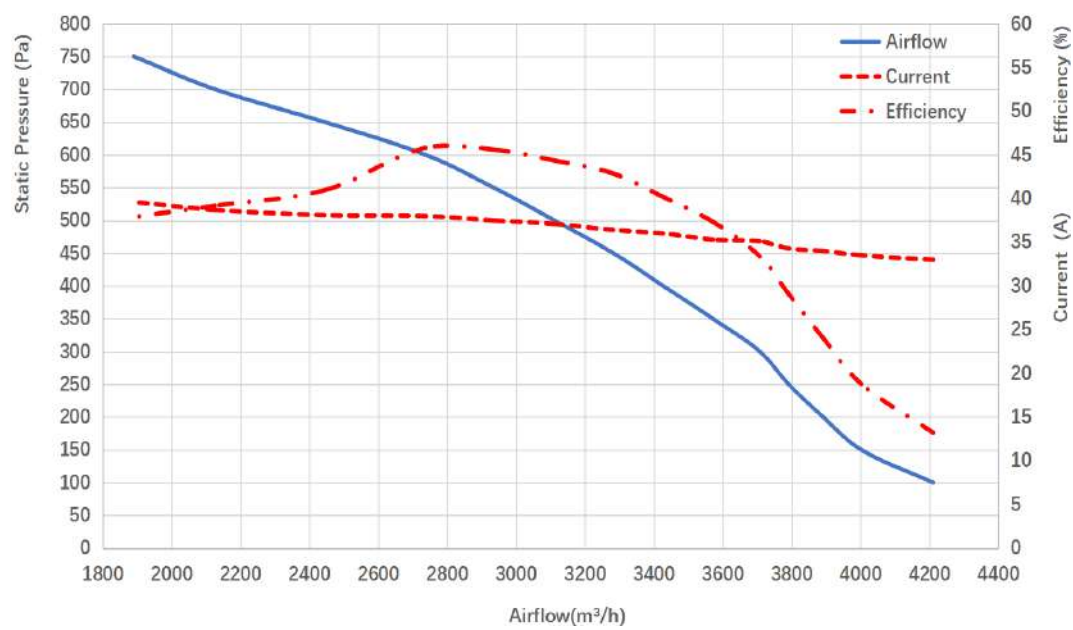
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

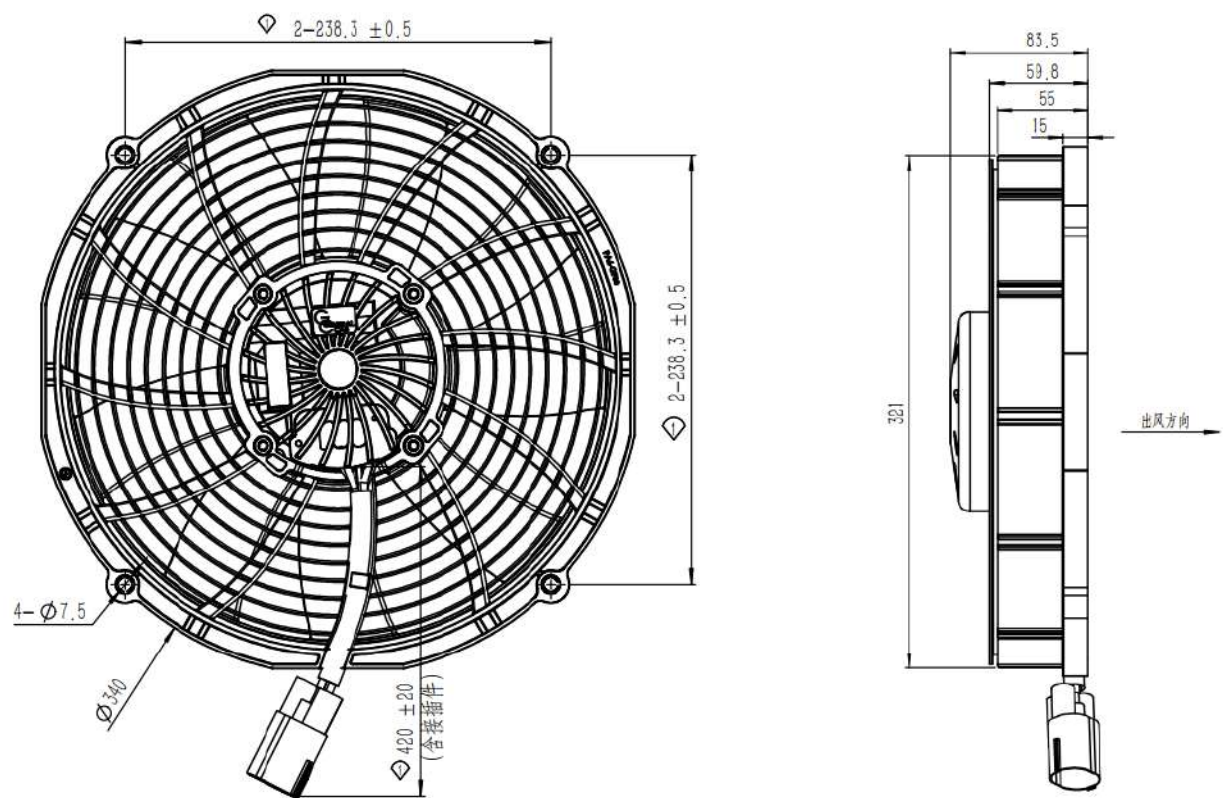
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸

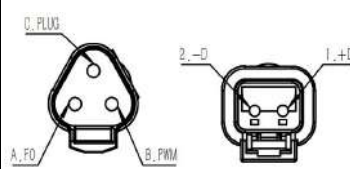


F82C-24BL8529-31S		
FAN DIAMETER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø305mm	500W	M30

FEATURES | 主要参数

Max fan speed 最大转速	rpm	4200
Min fan speed 最小转速	rpm	1250
Sound pressure level at max speed 最大转速噪音	dBA	83
Weight 重量	kg	2.6
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	No ring 无环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

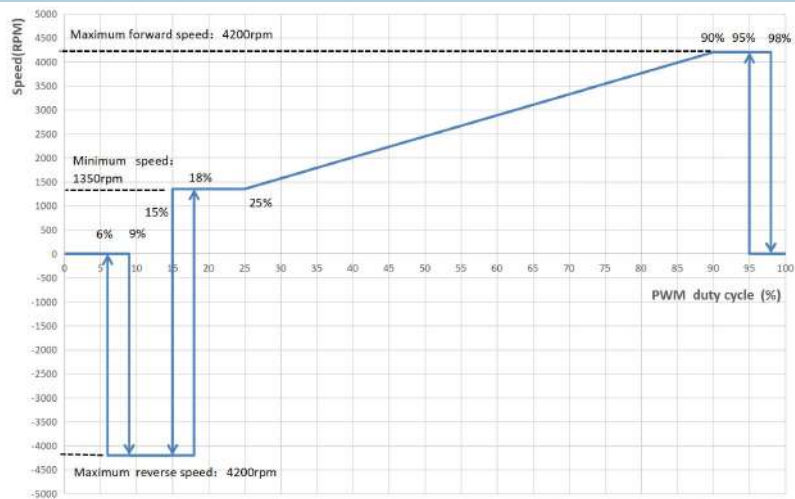
CONNECTOR | 连接器

Brand:		DEUTSCH DTP04-2P-E003		DEUTSCH DT04-3P-CE03	
Fastener :		WP-2P		W3P	
	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	A	B
	Wire Color	Red	Black	White	Blue
	Sealing p/n	/	/	/	/
	Pin p/n	1060-12-0166	1060-12-0166	0460-202-16141	0460-202-16141
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

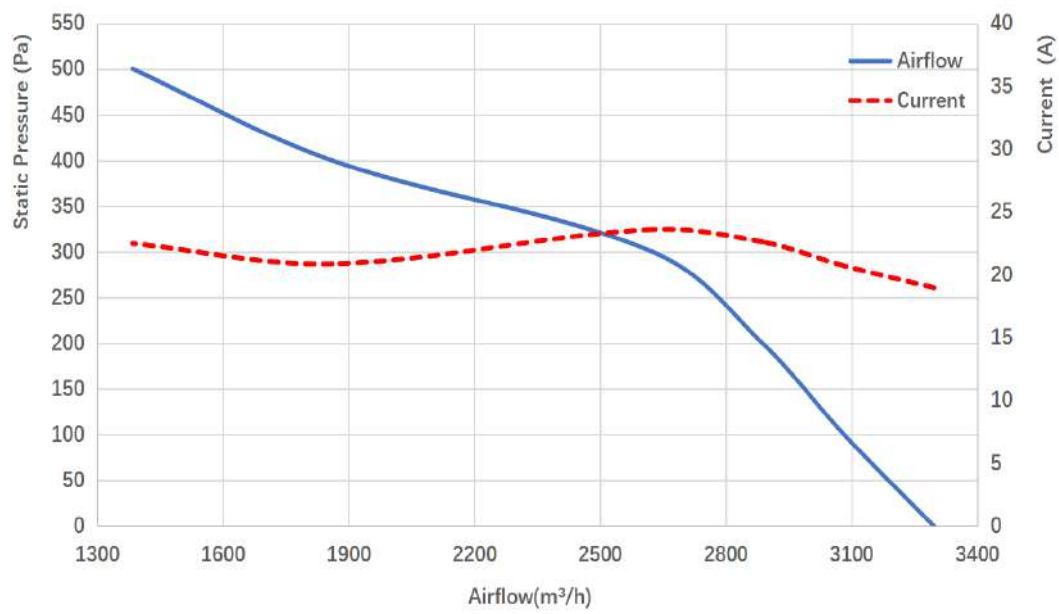
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

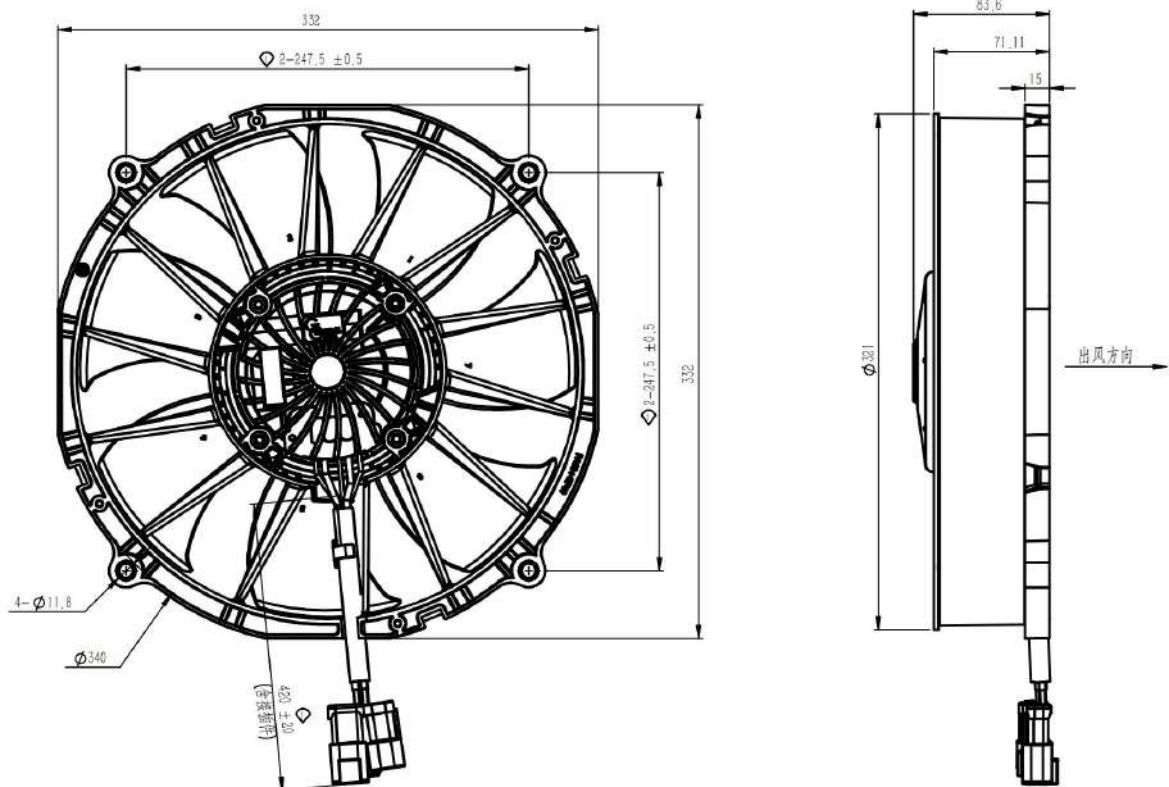
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F86-24BL7307-45S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø405mm	300W	M50

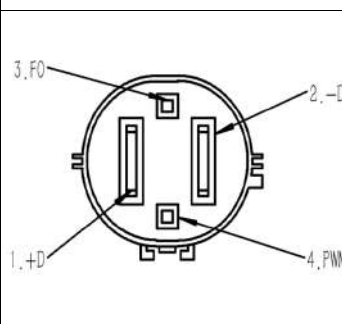
FEATURES | 主要参数

Max fan speed 最大转速	rpm	2200
Min fan speed 最小转速	rpm	800
Sound pressure level at max speed 最大转速噪音	dBA	73
Weight 重量	kg	3.3
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	14
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

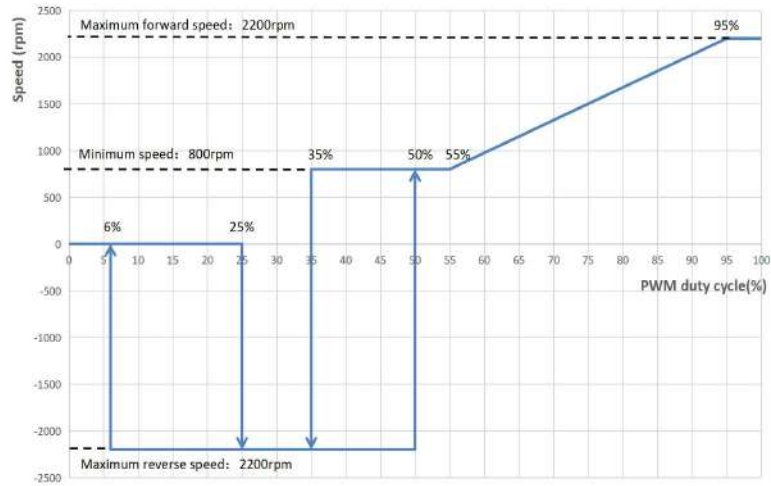
Fastener : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7157-3580-60	7157-3580-60	7158-3030-50	7158-3030-50
	Pin p/n	7114-3251	7114-3251	7114-4102-02	7114-4102-02
	Section [mm²]	4.0	4.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

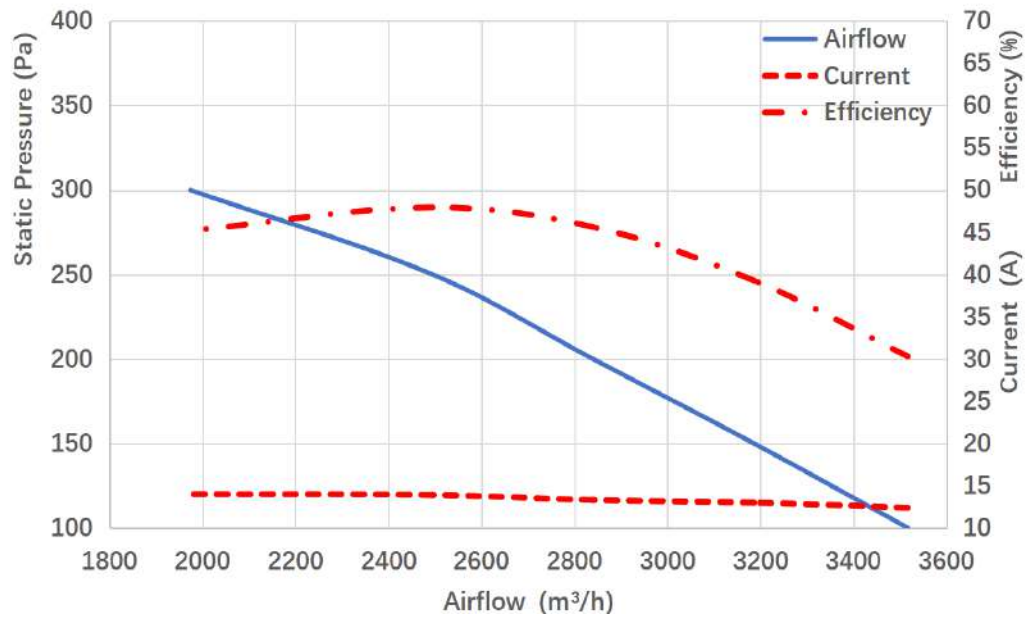
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

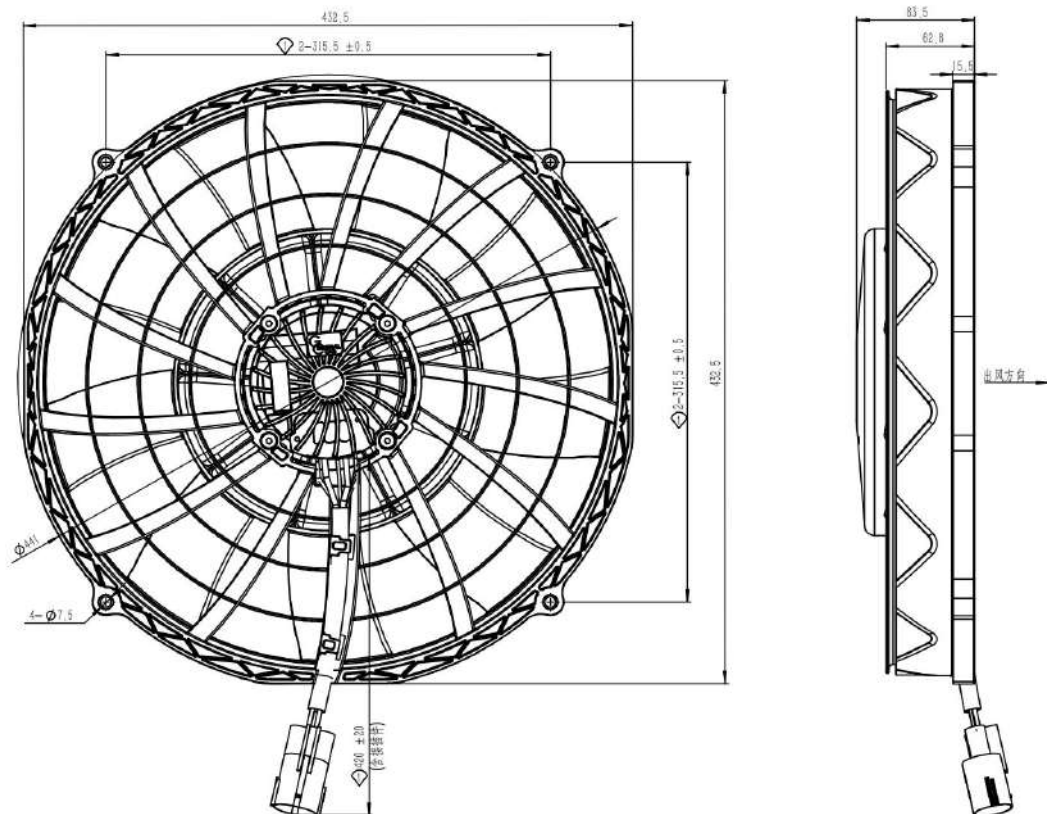
PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F86-24BL8627-42S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø405mm	600W	M30

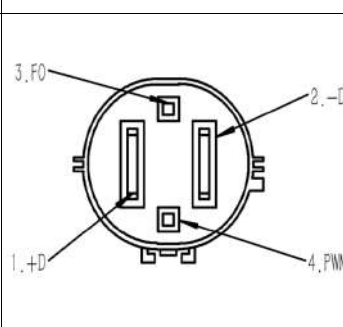
FEATURES | 主要参数

Max fan speed 最大转速	rpm	2500
Min fan speed 最小转速	rpm	800
Sound pressure level at max speed 最大转速噪音	dBA	76.5
Weight 重量	kg	3.3
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	16
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

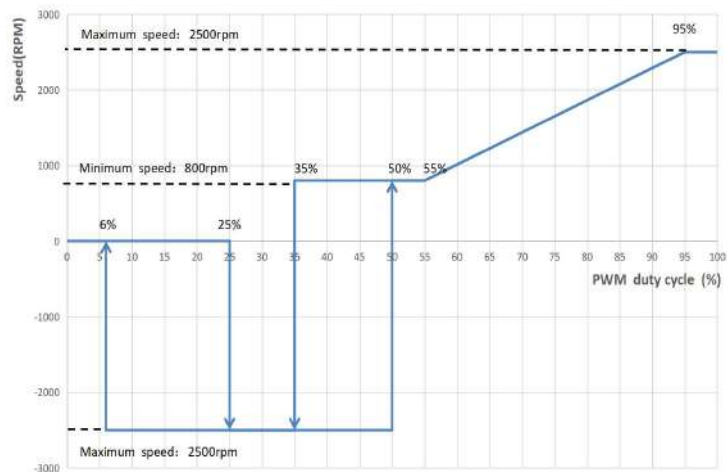
Brand: YAZAKI

Fastener : 7282-8497-90

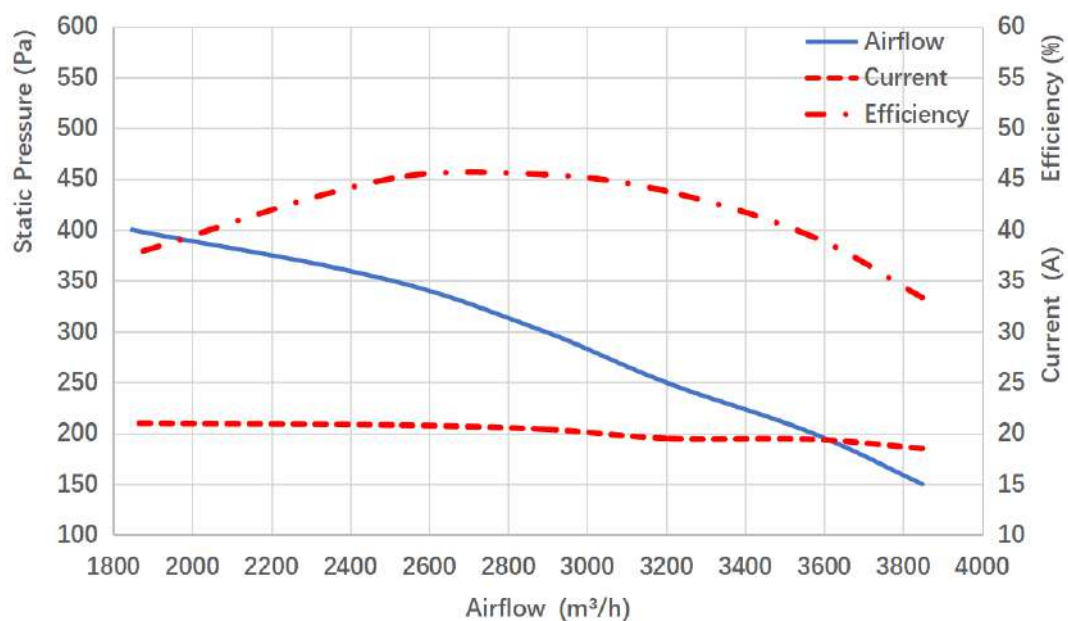
	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

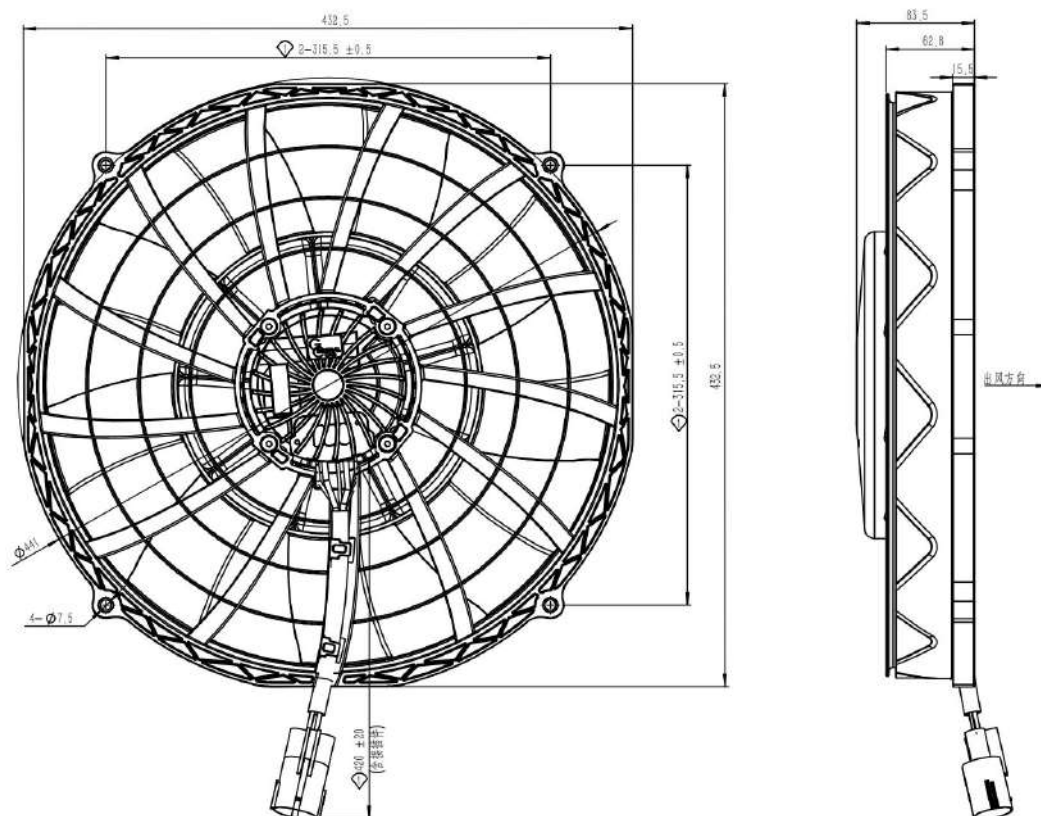
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F86-24BL8852-42S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø405mm	800W	M30

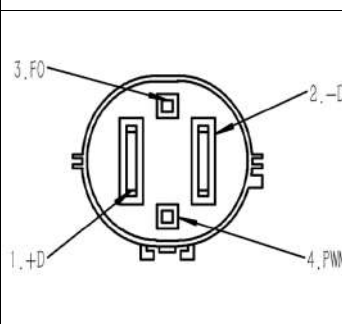
FEATURES | 主要参数

Max fan speed 最大转速	rpm	2800
Min fan speed 最小转速	rpm	800
Sound pressure level at max speed 最大转速噪音	dBA	78.5
Weight 重量	kg	3.45
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+95
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	18
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

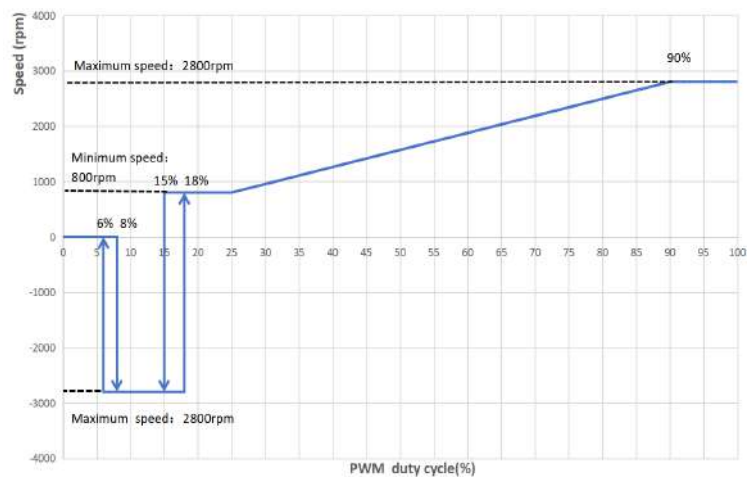
Brand: YAZAKI

Fastener : 7282-8497-90

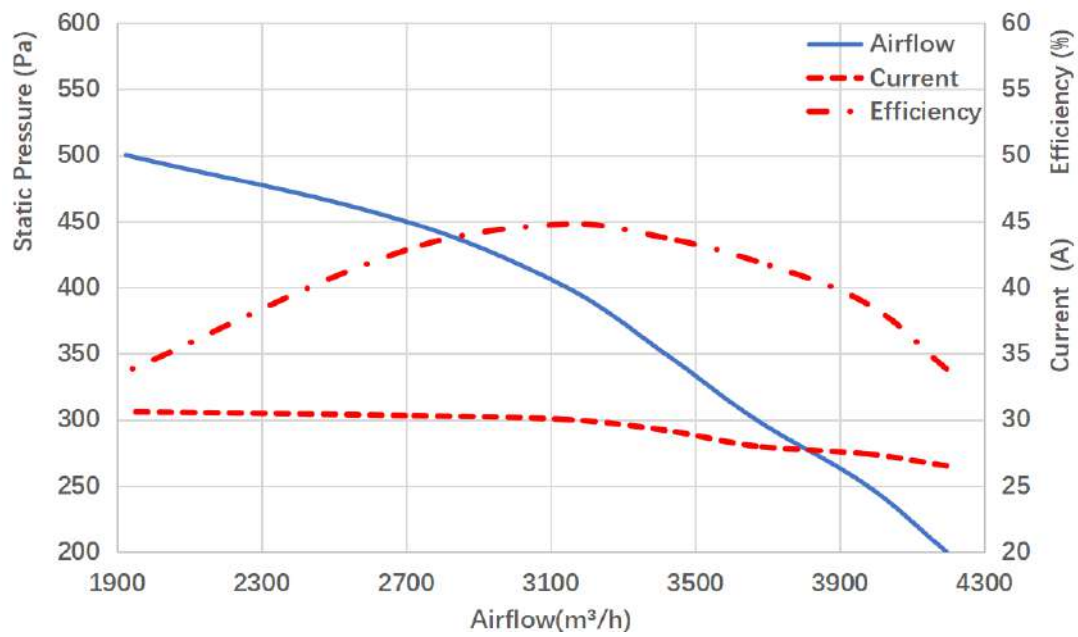
	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3035	7158-3035	7158-3030-50	7158-3030-50
	Pin p/n	7114-3250	7114-3250	7114-4102-02	7114-4102-02
	Section [mm²]	6.0	6.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

PWM SIGNAL | PWM信号

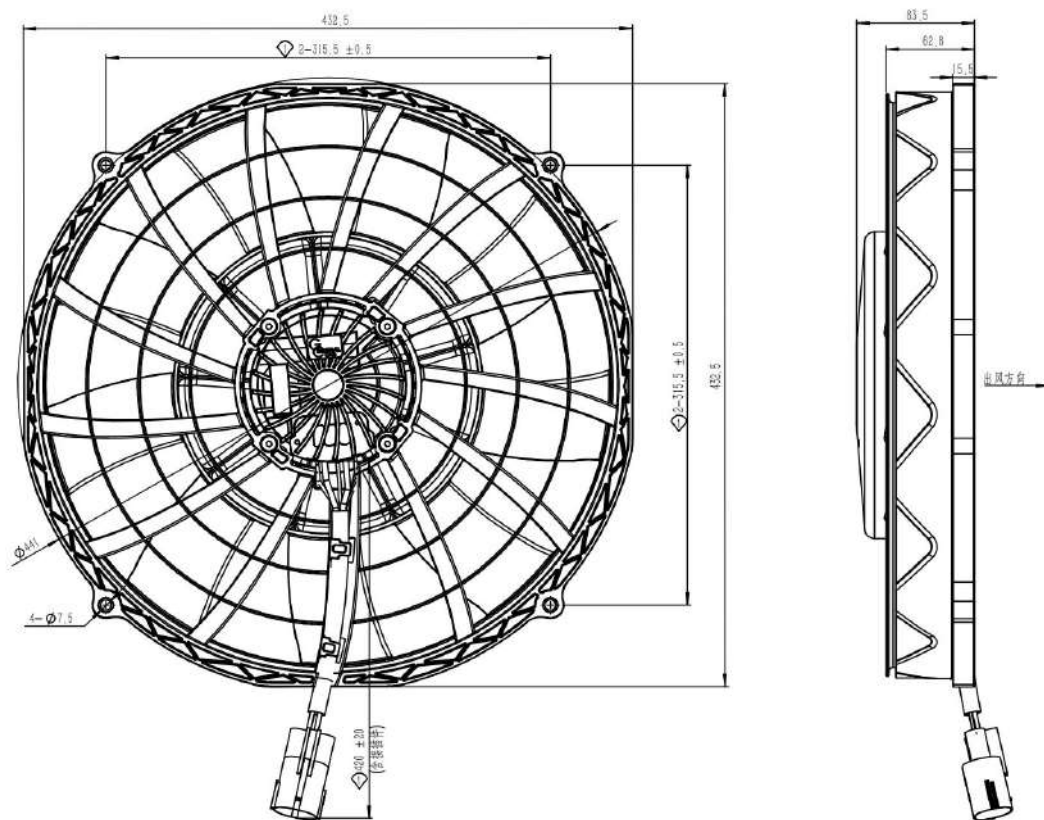
Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸



F86-24BL9852-42S

FAN DIAMATER 扇叶直径	MOTOR POWER 电机功率	MOTOR PLATFORM 电机平台
ø405mm	1000W	M30

FEATURES | 主要参数

Max fan speed 最大转速	rpm	3000
Min fan speed 最小转速	rpm	800
Sound pressure level at max speed 最大转速噪音	dBA	81
Weight 重量	kg	3.45
Operating supply voltage range 工作电压范围	V	16.0~32.0
Supply voltage to reach max speed 达到最大转速的电压	V	26.0~32.0
Operating ambient temperature range 工作温度范围	°C	-40~+120
Speed derating threshold 降额温度	°C	+85
Storage temperature range 储存稳定度范围	°C	-40~+125
Lifetime 寿命	h	40000
Time from 0 rpm to max speed 启动时间	s	20
Degree of protection 防护等级	IP68 & IP6K9K	
Fan type 扇叶类型	Ring 有环	
Fan material 扇叶材料	PA66+33GF	
Fan material flame retardant rating 扇叶材料阻燃等级	UL94 HB	
Shroud material 框架材料	Plastic 塑料	
Shroud material flame retardant rating 框架材料阻燃等级	HB	
Airflow direction 出风方向	Air outlet from the motor cover side 电机盖侧出风	
Direction of rotation 扇叶旋转方向	Clockwise viewed from fan 扇叶侧顺时针	
Fixing bolts 固定螺栓	M6	
Mounting torque 装配力矩	3(+1/0) Nm	
Installation angle 安装角度	Any	

CONNECTOR | 连接器

Brand: YAZAKI

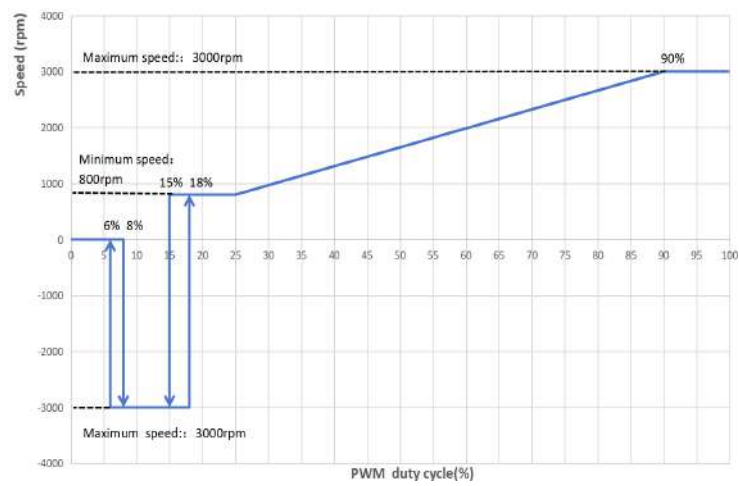
Fastener : 7282-8497-90

	Identification(*)	+D	-D	FO	PWM/E
	Pin Number	1	2	3	4
	Wire Color	Red	Black	White	Blue
	Sealing p/n	7158-3036-70	7158-3036-70	7158-3030-50	7158-3030-50
	Pin p/n	7114-3273-02	7114-3273-02	7114-4102-02	7114-4102-02
	Section [mm²]	10.0	10.0	0.75	0.75
Note: Never handle the fan module via the cable harness					

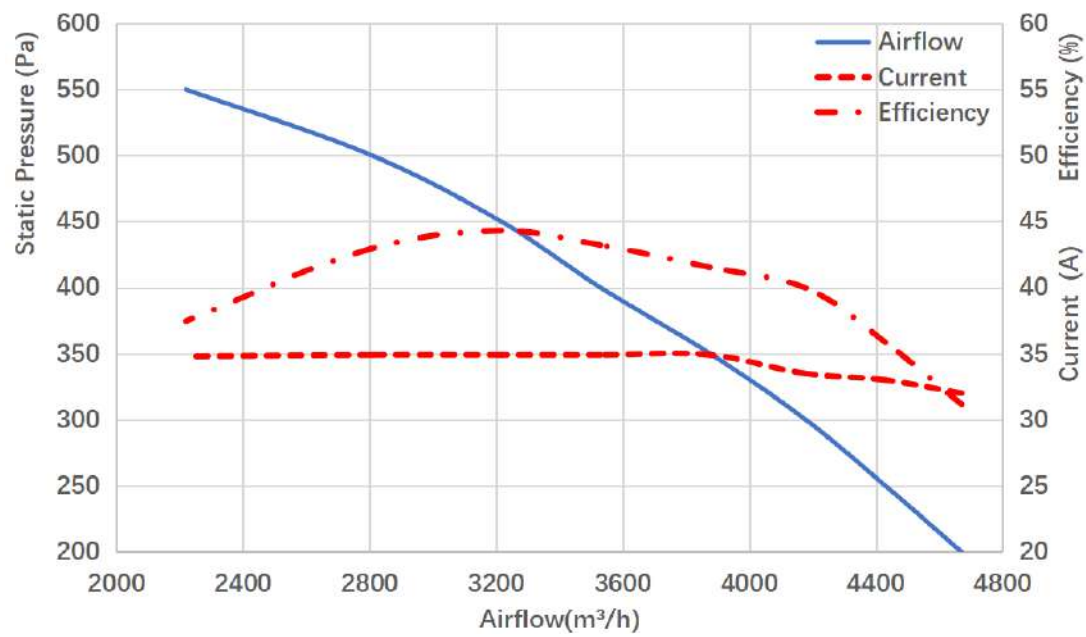
PWM SIGNAL | PWM信号

Parameter	PWM/E Frequency Range	PWM/E Duty Cycle Range	PWM High Level Voltage	PWM Low Level Voltage	PWM/E Resolution	PWM/E Current	PWM/E Wake - up Pulse	PWM/E Activation Level
Min	50	0	15.5				400	13
Typical	100				1			
Max	1000	100		7		5		
Unit	Hz	%	V	V	%	mA	µs	V

PWM SIGNAL | PWM信号



PERFORMANCE CURVE | 性能曲线



DRAWING | 图纸

