PRODUCTS high Performance

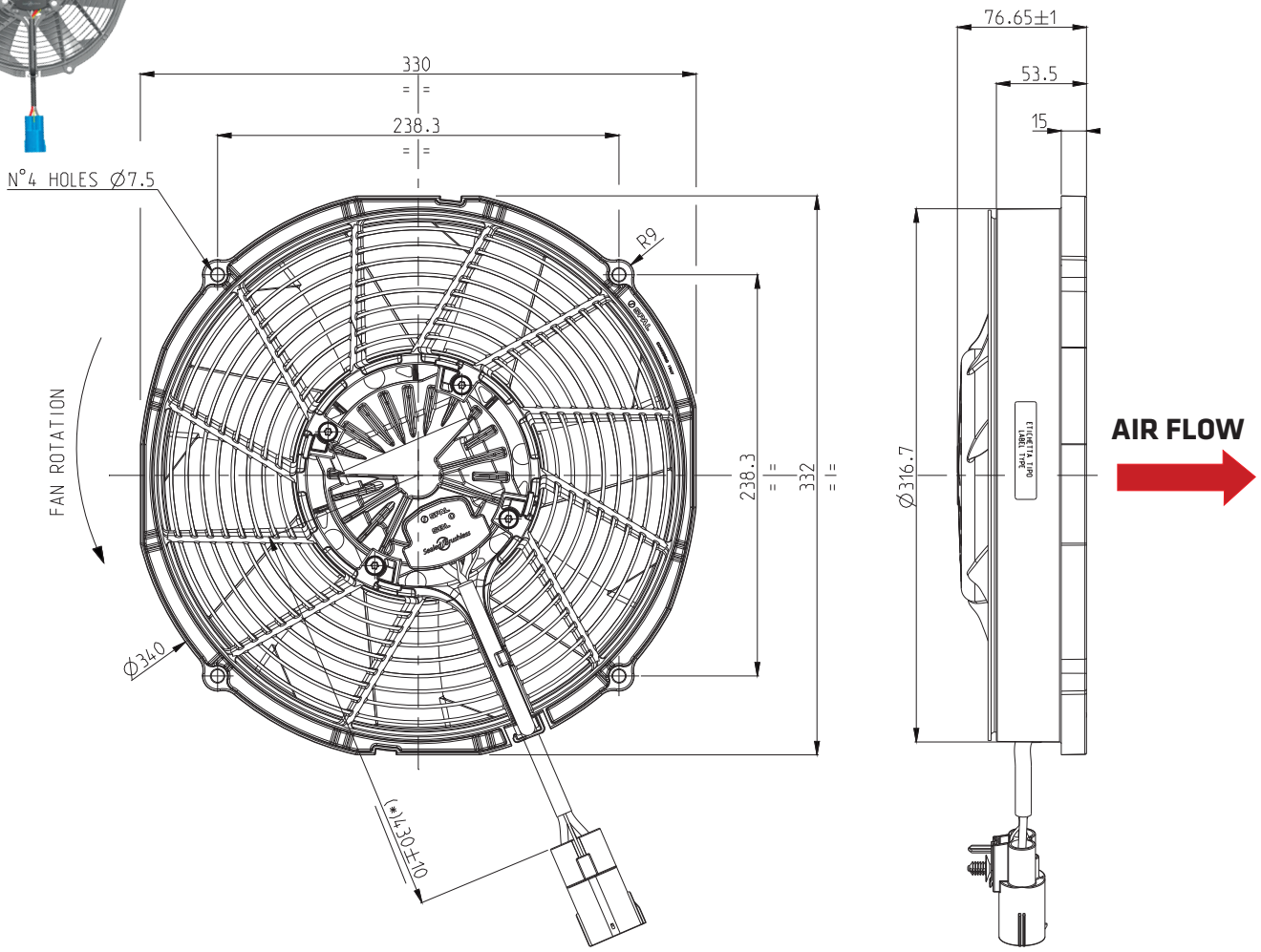
12V

Ø 305 mm
Ø 12”

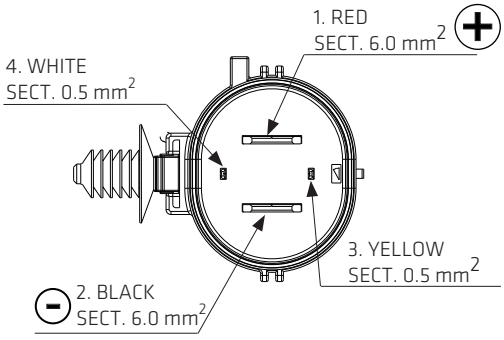
VA90-ABL320P/N-94A

Technical Data

All dimensions are expressed in mm. Use M6 screws for fixing – nominal tightening torque 4 Nm
Motors certified **IP6K9K** and **IP68**



Connector:YAZAKI HYBRID (USCAR-2 compliant) - Part number: 7282-8497-90



Identification	+	-	A	PWM* / E*
Pin number	1	2	3	4
Wire Color	RED	BLACK	YELLOW	WHITE
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	0.5	0.5

NOTE: YAZAKI connector counterpart available upon request (see page 63)

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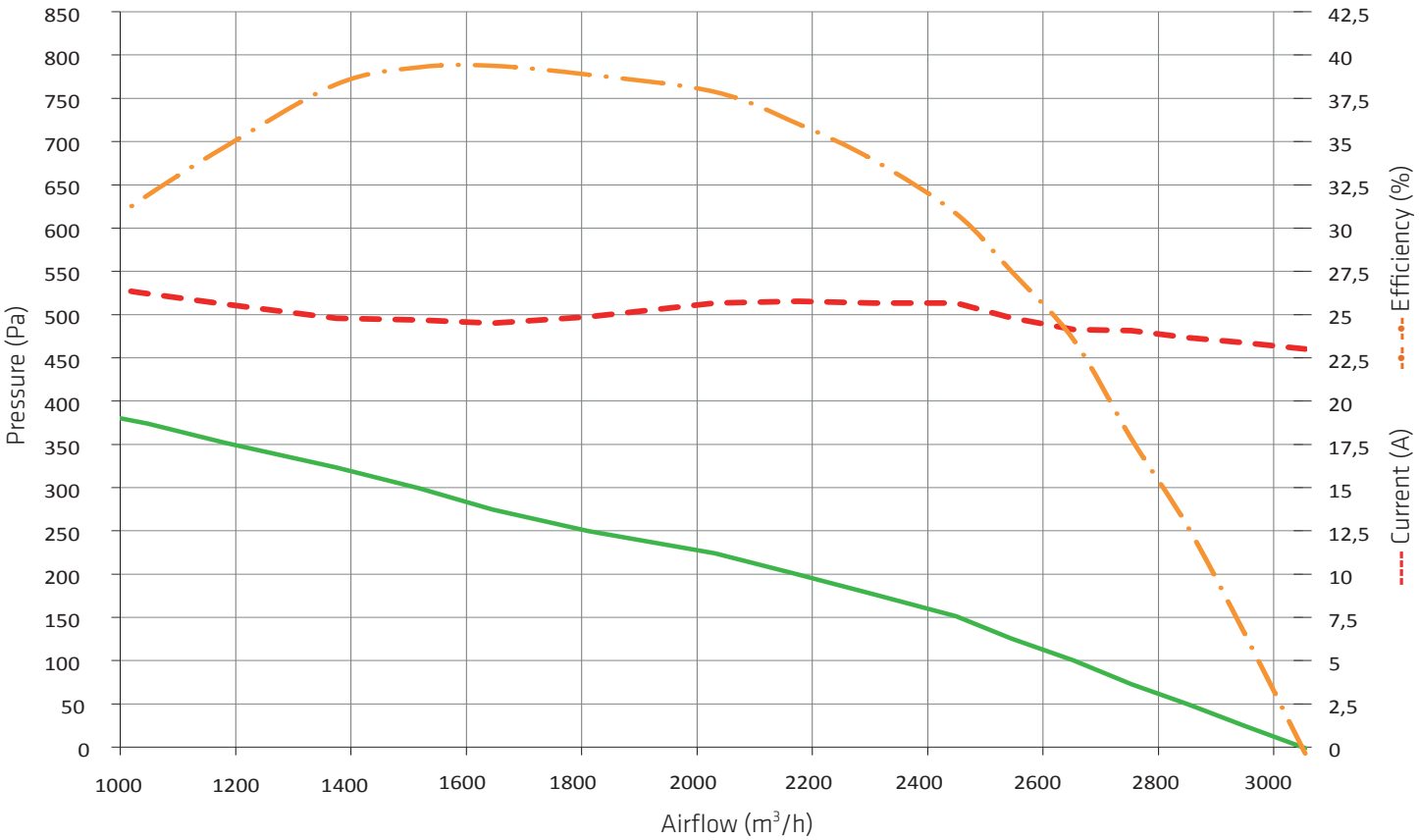
12V

VA90-ABL320P/N-94A

Ø 305 mm
Ø 12”

Performance Curve



Pressure: 1Pa=0.004 inH_2O Airflow: 1m³/h=0.59 cfm

Features		
Max fan speed	rpm	3500
Min fan speed	rpm	900
Sound pressure level	dBA	77 - at 1 m ± 0.005 m from the fan module- lateral side
Weight	Kg	2.41
Operating supply voltage range	V	9.0 .. 16.0 at the Drive Connector
Supply voltage to reach max speed	V	13.0 .. 16.0 at the Drive Connector
Operating ambient temperature range	°C	-40 .. +115
Speed derating threshold	°C	+105 (*)
Storage temperature range	°C	-40 .. +125
Lifetime	h	up to 40000 hours depending on mission profile
Time from 0 rpm to max speed	s	10
Load dump protection (Pulse 5b)	V	35 - Pulse peak voltage (U_S *) - ISO16750-2:2010
Reverse polarity protection		ISO 16750-1 functional status class C - device fully functional after correcting the polarity
Notes (*): Few minutes ambient temperature transients do not engage the derating owing to the thermal inertia of the system. Overloads may anticipate derating.		

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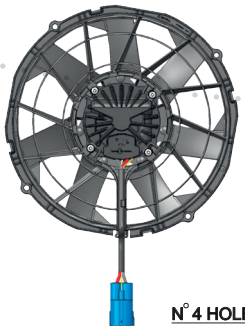
Ø 305 mm
Ø 12”

VA89-ABL320P/N-94A



Technical Data

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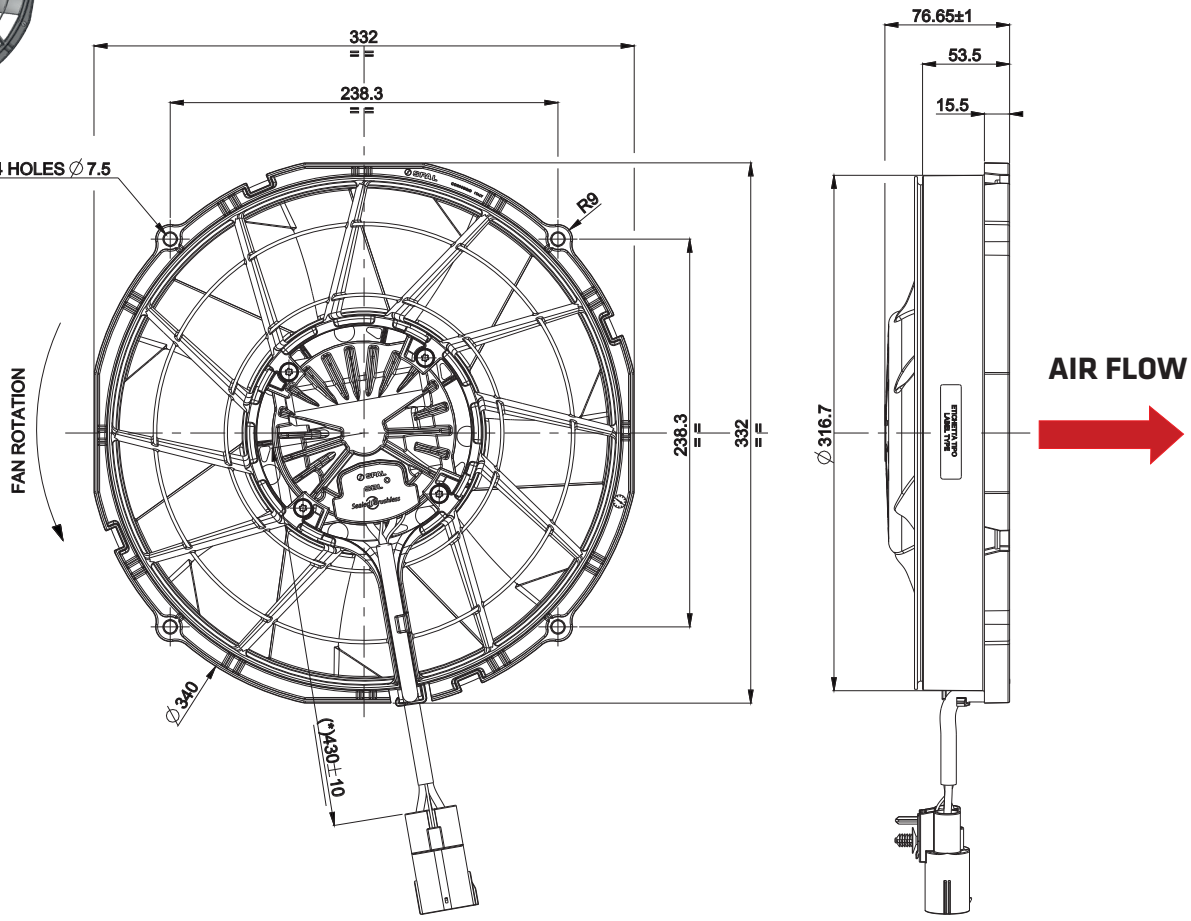
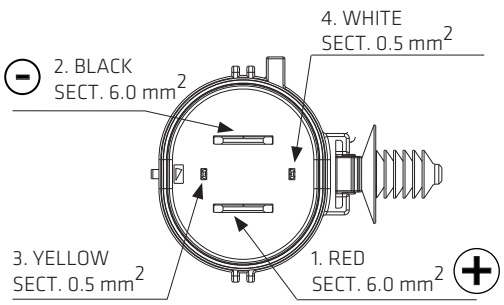
Motors certified **IP6K9K** and **IP68**



Connector:YAZAKI HYBRID (USCAR-2 compliant) - Part number: 7282-8497-90



Identification	+D	-D	A	PWM* / E*
Pin number	1	2	3	4
Wire Color	RED	BLACK	YELLOW	WHITE
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	0.5	0.5

NOTE: YAZAKI connector counterpart available upon request (see page 63)

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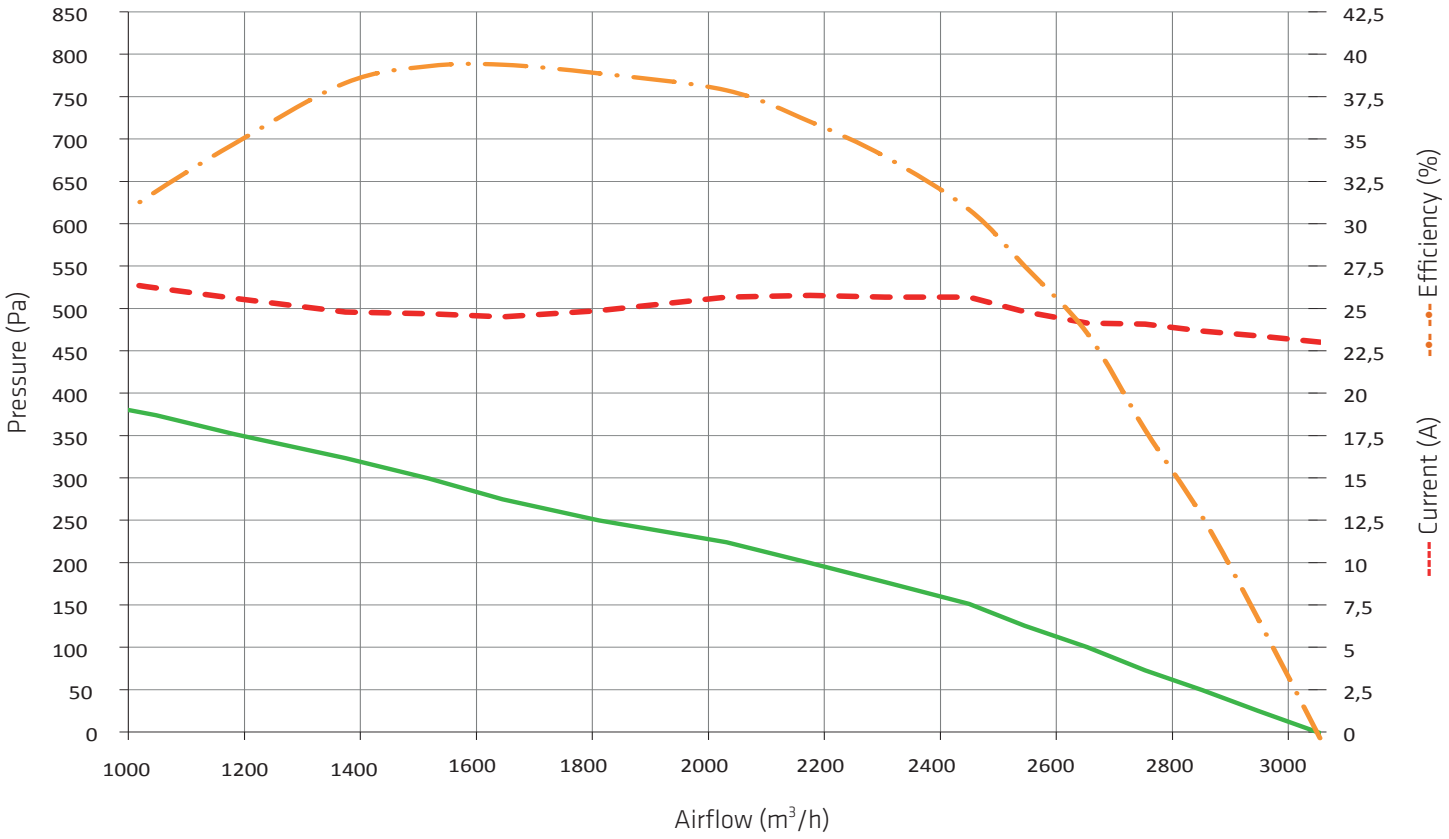
12V

VA89-ABL320P/N-94A

Ø 305 mm
Ø 12”

Performance Curve



Pressure: 1Pa=0.004 inH_2O Airflow: 1m³/h=0.59 cfm

Features		
Max fan speed	rpm	3500
Min fan speed	rpm	900
Sound pressure level	dBA	77 - at 1 m ± 0.005 m from the fan module- lateral side
Weight	Kg	2.25
Operating supply voltage range	V	9.0 .. 16.0 at the Drive Connector
Supply voltage to reach max speed	V	13.0 .. 16.0 at the Drive Connector
Operating ambient temperature range	°C	-40 .. +115
Speed derating threshold	°C	+105 (*)
Storage temperature range	°C	-40 .. +125
Lifetime	h	up to 40000 hours depending on mission profile
Time from 0 rpm to max speed	s	10
Load dump protection (Pulse 5b)	V	35 - Pulse peak voltage (U_S *) - ISO16750-2:2010
Reverse polarity protection		ISO 16750-1 functional status class C - device fully functional after correcting the polarity

Notes (*): Few minutes ambient temperature transients do not engage the derating owing to the thermal inertia of the system. Overloads may anticipate derating.

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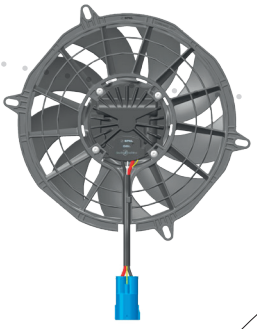
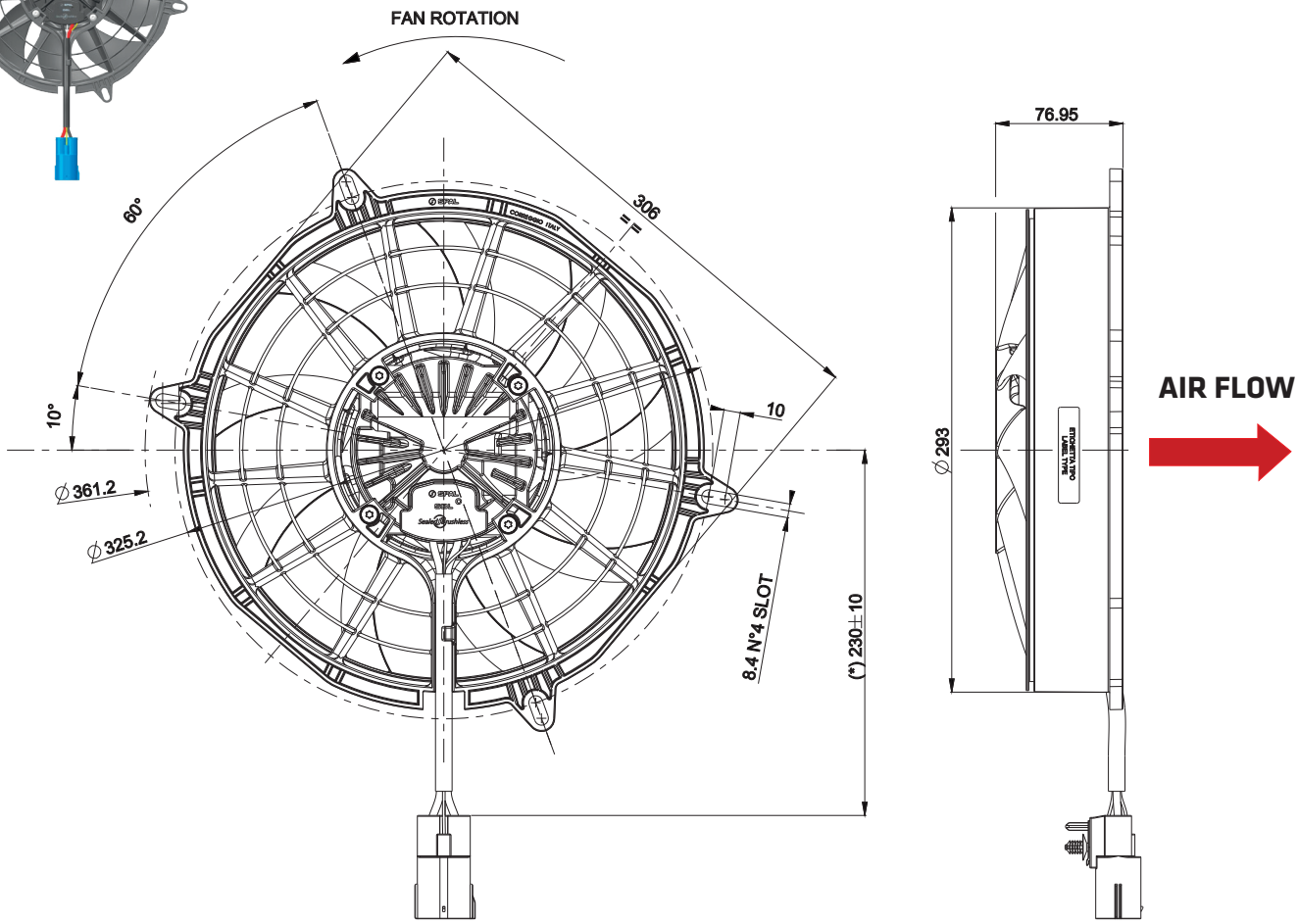
Ø 280 mm
Ø 11”

VA99-ABL315P/N-101A/SH

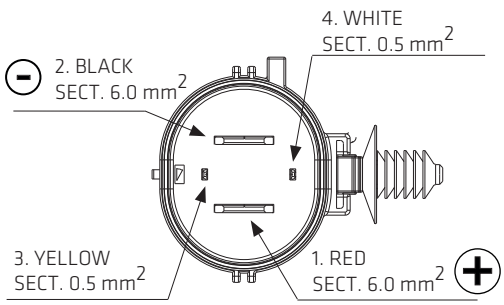


Technical Data

All dimensions are expressed in mm. Use M6 screws for fixing – nominal tightening torque 4 Nm
Motors certified **IP6K9K** and **IP68**



Connector:YAZAKI HYBRID (USCAR-2 compliant) - Part number: 7282-8497-90



Identification	+	-	A	PWM* / E*
Pin number	1	2	3	4
Wire Color	RED	BLACK	YELLOW	WHITE
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	0.5	0.5

NOTE: YAZAKI connector counterpart available upon request (see page 63)

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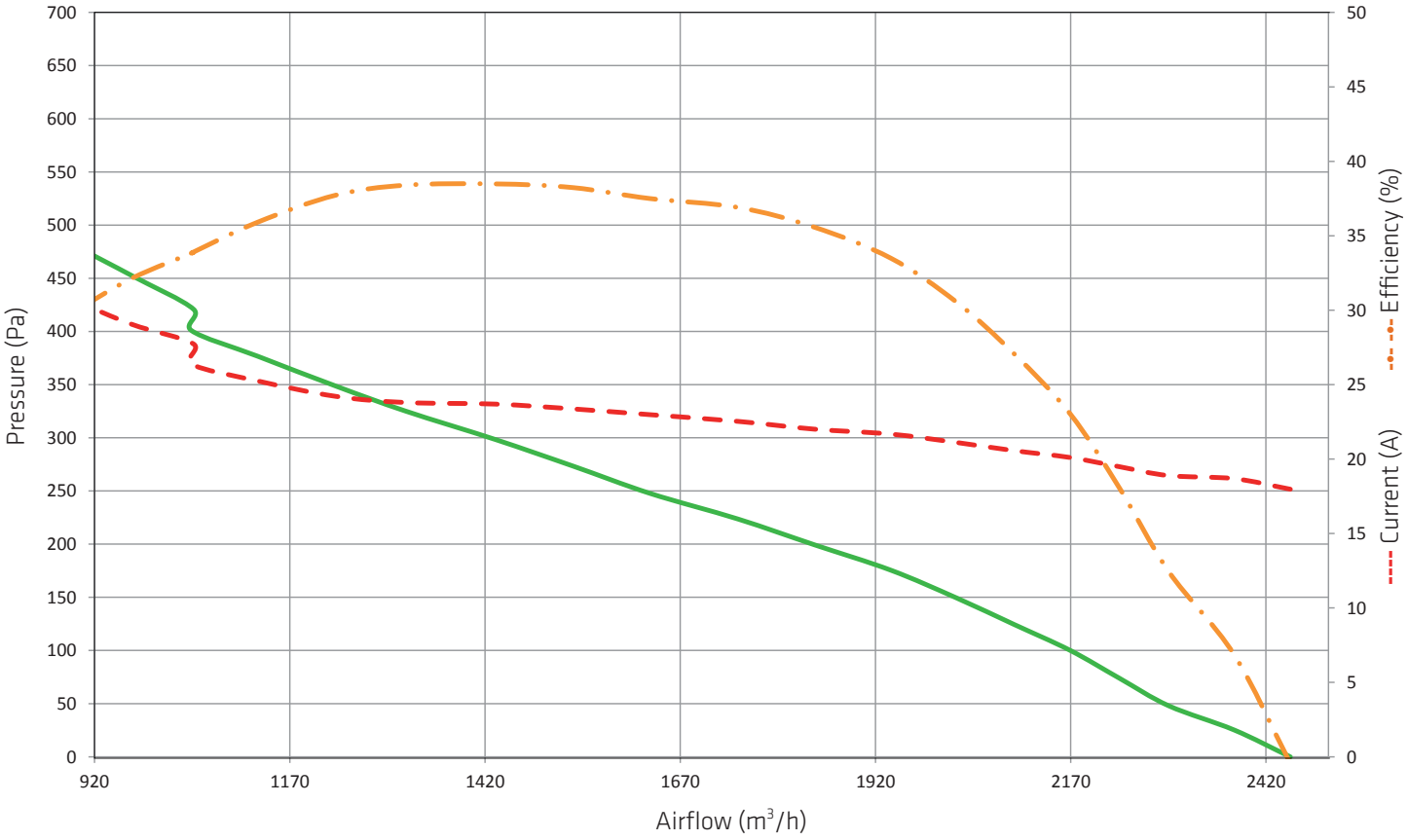
12V

VA99-ABL315P/N-101A/SH

Ø 280 mm
Ø 11”

Performance Curve



Pressure: 1Pa=0.004 inH_2O Airflow: 1m³/h=0.59 cfm

Features		
Max fan speed	rpm	3800
Min fan speed	rpm	950
Sound pressure level	dBA	73.8 - at 1 m ± 0.005 m from the fan module- lateral side
Weight	Kg	2.20
Operating supply voltage range	V	9.0 .. 16.0 at the Drive Connector
Supply voltage to reach max speed	V	13.0 .. 16.0 at the Drive Connector
Operating ambient temperature range	°C	-40 .. + 120
Speed derating threshold	°C	+105 (*)
Storage temperature range	°C	-40 .. +125
Lifetime	h	up to 40000 hours depending on mission profile
Time from 0 rpm to max speed	s	15.0
Load dump protection (Pulse 5b)	V	35 - Pulse peak voltage (U_S *) - ISO16750-2:2010
Reverse polarity protection		ISO 16750-1 functional status class C - device fully functional after correcting the polarity

Notes (*): Few minutes ambient temperature transients do not engage the derating owing to the thermal inertia of the system. Overloads may anticipate derating.

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