XV fan speed controllers

COPELAND

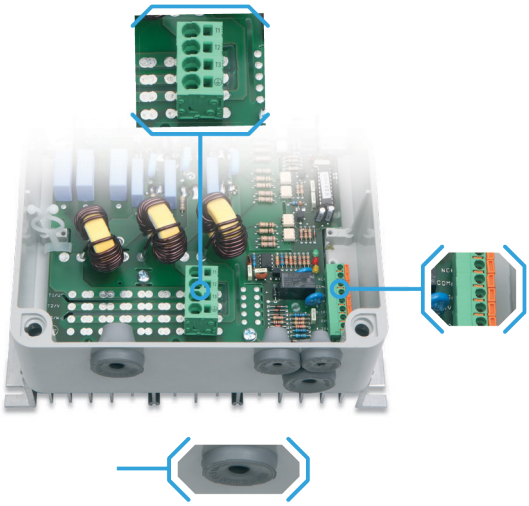
Section index

K: 270x340mm

K: 230x265mm

K: 165x230mm

- Chopped phase regulators designed for 3-phase fans with adjustable voltage motors
- Designed for adjustable voltage motors from 8 to 40A
- Oversized heat sinks for better heat disposal
- Integrated heat protection
- Oversized power stages
- Optimized radio frequency filters
- Available with ABS self-extinguishing cover (IP55) or in aluminum (IP20)
- Less time spent for wiring operations thanks to the screwless connectors with useful cable protectors
- On board 0÷10V output to be used for testing operation
- Compatible with Copeland controllers equipped with PWM, 4÷20mA, 0÷10V outputs like the iPro, XC600, XM600, ... series



How to order

														C
XV308/312/328/340K	X	V	3			K	-	7	0	1	0	0		Protection grade
XV310K	X	V	3	1	0	K	-	7	0	0	0	0		0-IP20
XV320K	X	V	3	2	0	K	-	7	0	C	0	0		1-IP55

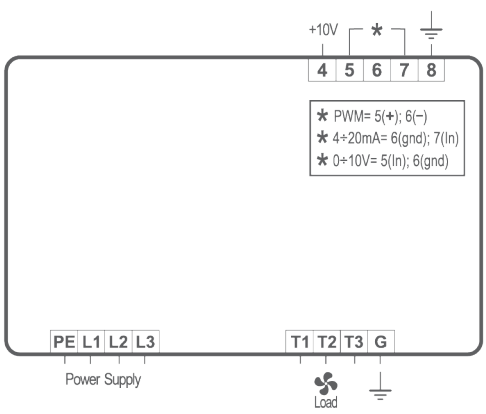
XV308K	Speed controller designed for three-phase A.C. motors up to 5,5kVA, 8A, with input for PWM, 4÷20mA or 0÷10V, dimension 165x230mm, weight 2,5Kg, power dissipation 30W
XV310K	Speed controller designed for three-phase A.C. motors up to 6,5VA, 10A, with input for PWM, 4÷20mA or 0÷10V, dimension 165x230mm, weight 3Kg, power dissipation 40W
XV312K	Speed controller designed for three-phase A.C. motors up to 8kVA, 12A, with input for PWM, 4÷20mA or 0÷10V, dimension 230x265mm, weight 4Kg, power dissipation 60W
XV320K	Speed controller designed for three-phase A.C. motors up to 13kVA, 20A, with input for PWM, 4÷20mA or 0÷10V, dimension 230x265mm, weight 4,8Kg, power dissipation 80W
XV328K	Speed controller designed for three-phase A.C. motors up to 19kVA, 28A, with input for PWM, 4÷20mA or 0÷10V, dimension 270x340mm, weight 7Kg, power dissipation 120W
XV340K	Speed controller designed for three-phase A.C. motors up to 26kVA, 40A, with input PWM, 4÷20mA or 0÷10V, dimension 270x340mm, weight 9Kg, power dissipation 155W

K: 270x340mm

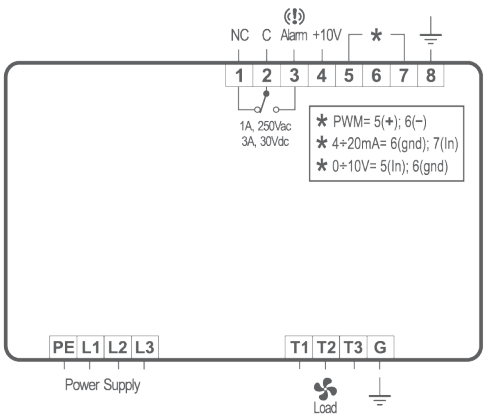
K: 230x265mm

K: 165x230mm

Features	XV308K	XV310K	XV312K	XV320K	XV328K	XV340K
Power supply	400Vac	400Vac	400Vac	400Vac	400Vac	400Vac
Protection grade	IP55	IP20	IP55	IP55, IP20	IP55	IP55
Maximum load	8A	10A	12A	20A	28A	40A
Control input	PWM	PWM	PWM	PWM	PWM	PWM
	4÷20mA	4÷20mA	4÷20mA	4÷20mA	4÷20mA	4÷20mA
	0÷10V	0÷10V	0÷10V	0÷10V	0÷10V	0÷10V
Alarm relay			1A, 250Vac	1A, 250Vac	1A, 250Vac	1A, 250Vac
			3A, 30Vdc	3A, 30Vdc	3A, 30Vdc	3A, 30Vdc
Auxiliary output	10Vdc	10Vdc	10Vdc	10Vdc	10Vdc	10Vdc
Supply LED	pres	pres	pres	pres	pres	pres
Alarm LED	pres	pres	pres	pres	pres	pres
Relay ON LED			pres	pres	pres	pres



XV308K - XV310K



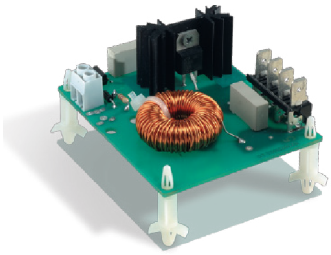
XV312K - XV320K - XV328K - XV340K

K: 175x200mm

K: 139x158mm

D: 4 DIN rail

- Chopped phase speed controllers to control pressure and temperature in refrigerating systems including cooling fans
- Inputs for regulation by temperature and pressure
- Direct or inverse action for condenser or evaporator fans
- Cut off, minimum speed and max speed at start up functions
- Trigger output for managing another module
- Slave models managed by the input signal (for XV100)
- Compatible with Copeland controllers equipped with PWM, 4÷20mA, 0÷1V/0÷10V outputs like the iPro, XC600, XM600, ... series
- 1VA max power absorption
- Measurement range: 0÷100%



PK: 80x70mm

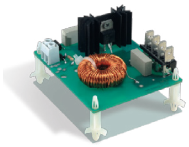
How to order

XV05PD	X	V	0	5	P	D	-	5	0	0	0	0
XV05/10/22PK	X	V			P	K	-	5	0	0	0	0
XV100	X	V	1				-	5	B	C	D	0

A	C	D
Format	Type of action	Regulation input
0=DIN	D = direct + cut off	N = NTC probe
5 = enclosure IP55	R = inverse + cut off	A = current (4÷20mA)
	N = slave (not for regulation input = N)	V = 0÷1V/0÷10V

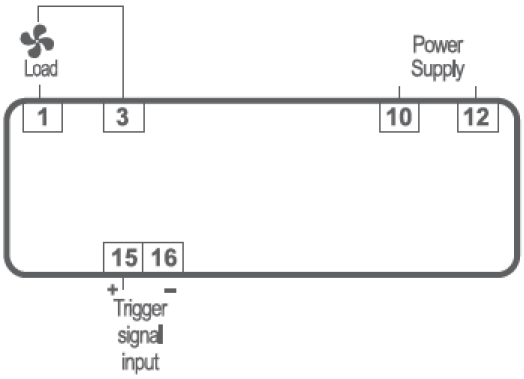
XV05PD **XV05PK**	Speed controllers designed for single-phase A.C. motors up to 500W, 2A, PWM input
XV10PK	Speed controller designed for single-phase A.C. motors up to 1000W, 4A, PWM input
XV22PK	Speed controller designed for single-phase A.C. motors up to 2200W, 9,5A, PWM input

PD: 4 DIN rail

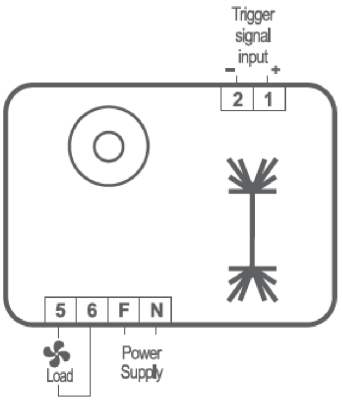


PK: 80x70mm

Features	XV05PD	XV05PK	XV10PK	XV22PK
Power supply	230Vac	230Vac	230Vac	230Vac
Control input	PWM	PWM	PWM	PWM
Direct-inverse function				
Full speed input at start up				
Trigger signal	pres	pres	pres	pres
Minimum speed function				
Cut off function				



XV05PD



XV05PK - XV10PK - XV22PK

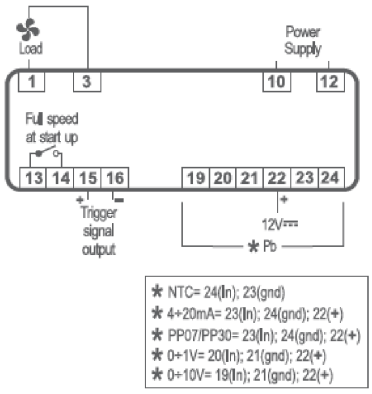
XV105D	Speed controller designed for single-phase A.C. motors up to 500W, with input for NTC, 4÷20mA, 0÷1V or 0÷10V
XV110K	Speed controller designed for single-phase A.C. motors up to 1kW, with input for NTC, 4÷20mA, 0÷1V or 0÷10V
XV150K	Speed controller designed for single-phase A.C. motors up to 5kW, with input for NTC, 4÷20mA, 0÷1V or 0÷10V

PD: 4 DIN rail

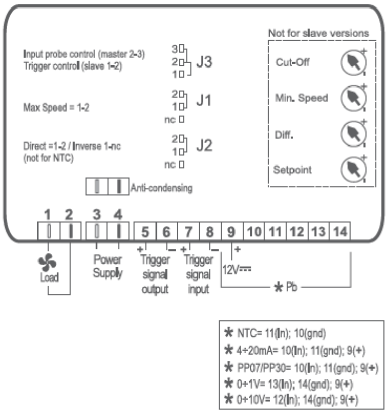
K: 139x158mm

K: 175x200mm

Features	XV105D	XV110K	XV150K
Power supply	230Vac	230Vac	230Vac
Control input	NTC	NTC	NTC
	4÷20mA	4÷20mA	4÷20mA
	0÷1V/0÷10V	0÷1V/0÷10V	0÷1V/0÷10V
Direct-inverse function	pres	pres	pres
Full speed input at start up	pres	pres	pres
Trigger signal	pres	pres	pres
Minimum speed function	pres	pres	pres
Cut off function	pres	pres	pres



XV105D



XV110K - XV150K

Accessory

XV-ACK

Anti-condensing kit for XV110K and XV150K models

- Resistance at 25°C (77°F): 100÷600Ohm
- Rated operating voltage: 120Vac or 220Vac
- Max operating voltage: 260Vac
- Steady state current at 25°C (77°F): 12A±30% (120Vac) 9A±30% (220Vac)

About Copeland

Copeland is a global leader in sustainable heating, cooling, refrigeration and industrial solutions. We help commercial, industrial, refrigeration and residential customers reduce their carbon emissions and improve energy efficiency. We address issues like climate change, growing populations, electricity demands and complex global supply chains with innovations that advance the energy transition, accelerate the adoption of climate friendly low GWP (Global Warming Potential) and natural refrigerants, and safeguard the world's most critical goods through an efficient and sustainable cold chain. We have over 18,000 employees, with feet on the ground in 50 countries - a global presence that makes it possible to serve customers wherever they are in the world and meet challenges with scale and speed. Our industry-leading brands and diversified portfolio deliver innovation and technology proven in over 200 million installations worldwide. Together, we create sustainable solutions that improve lives and protect the planet today and for future generations. For more information, visit copeland.com.

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