

REFRIGERATION COMPONENTS

Fan Speed Controllers

1-phase Condenser Fan Speed Control

P215

Pressure Actuated Single Phase Controller

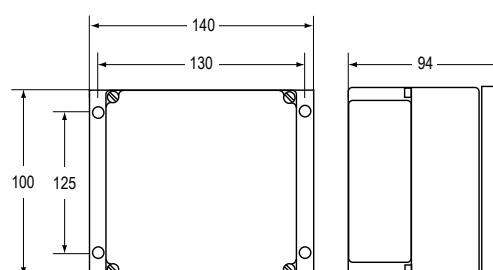
These controllers are designed for speed variation of single phase motors, especially for fan speed control on air cooled condensers. Head pressure control of a refrigeration system, through speed variation of the fan on an air-cooled condenser, results in optimum performance throughout the year. Using a pressure transducer as the input device to the fan speed controller, gives the most direct and fastest response to pressure variations in the refrigerant system. The controller varies the supply voltage to the motor from 45% to at least 95% over the proportional band using the phase cutting principle. It is recommended to confirm with the electric motor manufacturer if a controller using the phase cutting principle for speed variation can be used. The controller used for dual pressure input varies the fan speed by directly sensing the pressure changes of two separate refrigerant circuits. The setpoint of each pressure transducer can be separately adjusted. The controller selects the input with the greatest cooling demand to control the fan speed. The transducers can be used in non-corrosive refrigerant systems.

Features

- Condenser pressure control by fan speed variation
- Pressure input
- Transducers with proven reliability
- Easy accessible setpoint screw
- Adjustable minimum speed or cut-off selection
- Heatpump input available (P215SH)
- IP54 enclosure



P215SH/ST



Dimensions in mm

Ordering Codes	Range (bar)	Prop. band (bar)	Setpoint (bar)	Pressure Connection	Supply Voltage 50/60 Hz	Rating	Additional Features <i>Note: Style 50 is allowed on the Dutch market!</i>
P215SH-9100	14 to 24	4	16	90 cm cap. st. 50	230 VAC	4 Amp	Single input
P215SH-9101	8 to 14	2.5	10				For use on R410A applications
P215SH-9102	22 to 42	6	30				Single input
P215SH-9800	14 to 24	4	16	Braze con. st. 28		6 Amp	Single input
P215ST-9100	14 to 24	4	16	90 cm cap. st. 50			Single input
P215ST-9101	8 to 14	2.5	10				
P215ST-9600	14 to 24	4	16	90 cm cap. st. 51			For use on R410A applications
P215ST-9102	22 to 42	6	30	90 cm cap. st. 50			

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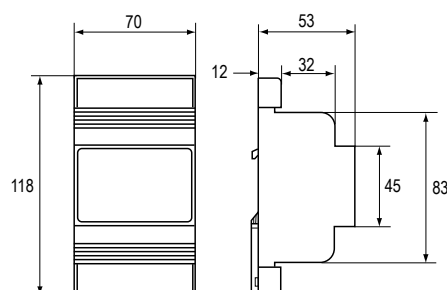
P215

The P215LR is a single pressure input fan speed controller for air cooled condensers with respectively single, dual and triple refrigerant circuits. The controller varies the fan speed by directly sensing the pressure changes of one, two or three separate refrigerant circuits. The setpoint of each pressure transducer can be separately adjusted. The controller selects the input with the greatest cooling demand to control the fan speed.

The controllers can be used in non corrosive refrigerant systems and vary the supply voltage to the motor from 45% to $\geq 95\%$ of the supplied voltage using the phase cutting principle. It is recommended to confirm with the electric motor manufacturer if a controller using the phase cutting principle for speed variation can be used. If the pressure drops below the adjusted setpoint minus the proportional band, the output to the motor is zero volt or the adjusted min. speed setting.

Features

- Condenser pressure control by fan speed variation
- Pressure input
- Model with heatpump input available
- Transducers with proven reliability
- Easy accessible setpoint screw
- Adjustable minimum speed or cut-off selection (only on LR)
- Motor speed action can be reversed by interchanging only two wires
- Small dimensions
- DIN rail mounted



Dimensions in mm

Ordering Codes	Range (bar)	Prop. band (bar)	Setpoint (bar)	Pressure Connection	Supply Voltage 50/60 Hz	Rating	Additional Features Note: Style 50 is allowed on the Dutch market!
P215LR -9110	14 to 24	4	16	90 cm cap. / 50	230 VAC	3 Amp	Minimum speed adjustable Single pressure input
P215LR -9111	8 to 14	2.5	10				
P215LR -9130*	Bulk pack version of type P215LR-9110 (15 pcs)						
P215LR -9210	14 to 24	4	16	direct mount / 47			
P215LR -9610				direct mount / 51			
P215LR -9611	8 to 14	2.5	10				
P215LR -9114	22 to 42	6	30	90 cm cap. / 50			For R410A applications
P215LR -9140	14 to 24	4	16				230 V heatpump input
P215LR -9120							400 V version