Electronic Fan Speed Controller Series FSY/FSM

Electronic speed controllers FSY /FSM control the speed of fan motors depending on pressure.

Features

- Adjustable pressure for cut-off
- High Voltage Triac (800 Volts)
- Integrated protection circuit against voltage peaks
- Compact design
- · Easy mounting and adjustment
- Easy retrofit in existing systems
- No additional gasket required (completely molded into plug)
- Multi-position plug with EMC filter cable for flexible installation
- per 2014/30/EU (together with FSF cable)
- UL file E183816
- Other pressure connection upon request (minimum order volume 100 pieces)



FSY-43S

Selection Table

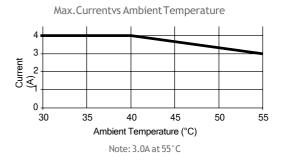
Туре	Part No.	Pressur e range*	Factory- setting*	Max. Allowable Pressure PS	Test Pressure PT	Pressure connectio n	
Fan Speed Controllers With Cut-off Mode							
FSY-41S	0715533	4.012.5 bar	8.0 bar	27 bar	30 bar	7/16"-20 UNF female	
FSY-42S	0715534	9.221.2 bar	15.0 bar	32 bar	36 bar		
FSY-43S	0715537	12.428.4 bar	21.8 bar	45 bar	50 bar		
Fan Speed Controllers With Min. Speed Mode							
FSM-41S	0715520	4.02.5 bar	8.0 bar	27 bar	30 bar		
FSM-42S	0715521	9.221.2 bar	15.0 bar	32 bar	36 bar	7/16"-20 UNF female	
FSM-43S	0715522	12.428.4 bar	21.8 bar	45 bar	50 bar		

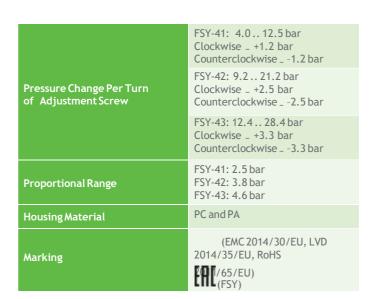
Cable Assemblies With Plug and EMC Filter

Туре	Part No.	Temperature Range	Cable Length	
FSF-N15	804640		Cable length 1.5 m	
FSF-N30	804641	Temperature Range: -50+80°C	Cable length 3.0 m	
FSF-N60	804642		Cable length 6.0 m	
Seal Ring Pack	803780	Copper Gaskets 100 pcs		

Technical Data

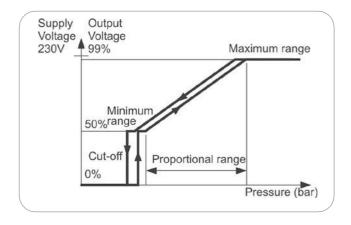
Supply Voltage	230VAC, +15%, -20%, 50/60 Hz
Nominal Current (See Diagram Below)	FSY: 0.1 - 4.0A FSM: 0.5 - 4.0A
Starting Current	Max. 8 Amps/5 Sec.
Medium Compatibility	R410A, R134a, R404a, R507, R407C, R407A, R407F, R1234ze, R452A, R448a, R449a, R450A, R513A, R22
Protection Class According to IEC529 /EN 60529	IP 65 (with Fitted Connectors FSF-xxx)
Temperature Ranges Ambient Storage & Transportation Medium	-20+55°C (>40°C See Diagramm) -30+70°C -20+70°C





Function Diagram

The control behaviour can be easily described by looking at the function of output voltage versus input pressure: In the maximum range the FSY provides a constant output voltage of approximately 1% below the supplyvoltage. Thefanisrunning atmaximum speed. Along the proportional range, the output voltage varies between maximum and minimum voltage of approximately 50% of the supply voltage. This causes the fan to slow down from maximum to minimum speed.



Further decrease of pressure in the minimum range leads to cut-off of the fan motor. Reincrease of input pressure will start the motor with a hysteresis of approximately 0.7 bar to avoid cycling. The pressure from which motor cuts off is adjustable (see selection table - adjustment range).

