

o configurable option

For further information and additional functions see EC Control Software, Fan-Set-App, or MODBUS Parameter Specification V6.0

CON2	configurable IO mode	electrical specification	configurable IO functions: normal / inverse	
			MODBUS Register for IO mode configuration	MODBUS Register for IO mode configuration
101	o Din1 (active high), digital input	not active: pin open or applied voltage < 1.5VDC active: applied voltage 3.5-50VDC, SELV	D158 [0]	
	o Ain1 0-10V/PWM: analog input	RI=100K, characteristic curve parameterizable, $f_{PWM}=1k..10kHz$, SELV	D158 [2]	
	o Tach out (open collector output)	Umax=50VDC, Imax=20mA, SELV	D158 [5]	
	o Diagnostics out (open collector output)	Umax=50VDC, Imax=20mA, SELV	D158 [6]	
102	o Din2 (active high), digital input	not active: pin open or applied voltage < 1.5VDC active: applied voltage 3.5-50VDC, SELV	D159 [0]	
	o Ain2 0-10V/PWM: analog input	RI=100K, characteristic curve parameterizable, $f_{PWM}=1k..10kHz$, SELV	D159 [2]	
	o Ain2.4-20mA: analog input	RI=125R, characteristic curve parameterizable, SELV	D159 [3]	
	o Din3 (active high), digital input	not active: pin open or applied voltage < 1.5VDC active: applied voltage 3.5-50VDC, SELV	D15A [0]	
103	o Din3 (active low), digital input	not active: pin open or applied voltage < 1.5VDC active: applied voltage 3.5-50VDC, SELV	D15A [1]	
	o PWMIn3: digital input	not active: pin open or applied voltage < 1.5VDC active: applied voltage < 1.5VDC, SELV 40Hz - 10kHz, characteristics parameterizable	D15A [7]	
	o Aout3 0-10V: analog output	not active: pin open or applied voltage < 1.5VDC, SELV active: applied voltage < 1.5VDC, SELV		
	o Tacho out (pulses), analog output	function parameterizable, max. 5mA, max output frequency 300Hz, SELV	D15A [4]	
	o Diagnostics out (pulses)	0-10V max. 5mA, max output frequency 300Hz, SELV 0-10V max. 5mA, max output frequency 300Hz, SELV	D15A [5]	
		MODBUS RTU, specification V6.0, SELV	D15A [6]	
RSA RSB	RS485 bus connection,			
Vout	voltage output	voltage parameterizable 3.3..24VDC +/- 5.5%, Pmax=800mW, short-circuit-proof, supply for external devices, SELV	D16E [..]	
	alternatively: input auxiliary power supply for parameterization via RS485/MODBUS RTU without line voltage	15...50VDC		

IO	FUNCTION	DESCRIPTION	MODBUS REGISTER	BIT	ADDRESS
D101 [..]	INPUT	source: set value			
D147 [..]	INPUT	source: sensor value			
D104 [..]	INPUT	switch: parameter set: #1 / #2			
D12E [..]	INPUT	switch: control function: heating (pos.), cooling (neg.)			
D148 [..]	INPUT	switch: direction of rotation: cw / ccw			
D16C [..]	INPUT	switch: set value source			
D16A [..]	INPUT	switch: fan enable / disable			
(selected directly via IO mode)	OUTPUT	signal: tach out			
(selected directly via IO mode)	OUTPUT	signal: diagnostics out			
D130 [0]	OUTPUT	signal: fan modulation level %			
D130 [1]	OUTPUT	signal: actual speed			
D130 [2]	OUTPUT	signal: system modulation level %			
D130 [5]	OUTPUT	signal: remote control output 0-10V			
D00C [1]	OUTPUT	pulse input for auto-addressing			
D130 [4]	OUTPUT	pulse output for auto-addressing			