

Datasheet



DCU 210 Engine Control Unit

Part#: 1006481

Rev. November 2011

Interfaces

Section	Ch.	Cond.	Min	Typ	Max	Unit	Comment
Power Supply	1		8	12/24	32	VDC	
Current Consumption	-	@24V	0.1	0.5	1.0	A	
Digital Input	10	low=0-2 high=8-30	-	12/24	-	VDC	
4-20 mA Input	2		0	4-20	25	mA	Accuracy: +/- 0.5 % of range
PT100 Input	2		0	-	800	C	Accuracy: +/- 2.0 % of range
Digital Output	6		Vin-0.5	Vin-0.3	Vin-0.2	V	Ch. 1-2: shares 0.5 A fuse. Ch. 3-6: 0.2 A fuse each.
Relay Output	3		0	-	1	A	1 alarm , 2 configurable, potential free
Pickup	1		0.1 4	-	10 32	kHz Vpp	Magnetic pickup
CAN J1939	1		-	250	-	kbps	
Ethernet	1		-	100	-	Mbps	
Modbus TCP	1		-	100	-	Mbps	
Modbus RTU	1		-	19 200	-	baud	
RIO Link Expansion	1		-	19 200	-	baud	One RIO 410 or one RIO 425
USB Port	1		-	-	-	-	USB 1.1 Memory Interface

Screen

Section	Conditions	Width	Typ	Height	Unit	Comment
Size	-	-	5.7"	-	inch	
Resolution	-	320	-	240	px	
Colors	-	-	16 384	-	colors	

Size and Weight

Section	Weight	Width	Height	Depth	Unit	Comment
Size	-	161	132	37	mm	
Cutout	-	150	120	-	mm	Required depth: 70mm
Weight	400	-	-	-	g	

Environmental

Section	Condition	Min	Typ	Max	Unit	Comment
Vibration	Operational	-	0.7	-	g	IEC 60068-2-6 Fc
Dry Heat	Operational	-	-	70	C	IEC 60068-2-2 Bb/Bd
Damp Heat, cyclic	Cyclic 20-55-20	-	-	-	C	IEC 60068-2-30 Db
	Humidity 95 % Duration	-	-	48	hours	
Operating Temperature	Operational	5	-	70	C	IEC 60068-2-1 Ab/Ad
	Duration	-	-	2	hours	
Storage Temperature	Not powered	-30	-	+80	C	
Enclosure	Operational	-	IP44	-	-	Front panel
High Voltage	Not powered	-	-	548	Vrms	Voltage applied between <i>clamped</i> supply and shield.
		-	-	1	minute	
Fast low-energy Transients/bursts	Operational	-	-	-	-	IEC 61000-4-4
		-	-	2	kV	24 VDC supply lines, 5 kHz
		-	-	1	kV	Signal lines, 5 kHz
Slow high-energy	Operational	-	-	-	-	IEC 61000-4-5

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Transients/surges		-	-	0.5	kV	24 VDC supply lines
		-	-	1	kV	Signal lines
Electrostatic Discharge, ESD	Operational	-	-	-	-	IEC 61000-4-2
		8	-	8	kV	Air
		6	-	6	kV	Contact

EMC

Section	Condition	Min	Typ	Max	Unit	Comment
Conducted emission	Operational	-	-	-	-	CISPR 16-1-1 / 16-1-2 / 16-2-1
Radiated emission	Operational	-	-	-	-	Quasi-peak at 3m:
		150	-	300	kHz	80-50 dB μ V/m
		0.3	-	300	MHz	50-34 dB μ V/m
		30	-	156	MHz	54 dB μ V/m
		156	-	165	MHz	24 dB μ V/m
165	-	2 000	MHz	54 dB μ V/m		
Radio frequency Immunity	Operational	-	-	10	Vrms	IEC 61000-4-6
Radiated electric Immunity	Operational	80	-	2 000	MHz	IEC 61000-4-3 10 V/m, 80 % AM, 1 kHz

Validity of Information

Data valid at revision date. Auto-Maskin reserves the right to make improvements and changes of specification at any time.

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