



-power in control

DEIF A/S

Type Certificate

4124030073C / ref. SOJ

Type:	ECU-100 Engine Control Unit GCU-100 Genset Control Unit
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Technical specifications

* Measuring Voltage:	50...480V AC +-20% (Only GCU) Load 1.5M Ω
* Measuring Current:	-/1 or -/5A AC Consumption max. 0,3VA / phase
* Measuring frequency:	30...70Hz
* Auxiliary supply	6...36V DC continuously Max. 8W consumption
* Digital input:	Optocoupler, bi-directional Input voltage 6...36V DC Impedance: 4.7k Ω
* Relay outputs:	250VAC/30VDC/2A 30VAC/30VDC/2A 30VAC/30VDC/8A (Unit status output: 24V DC, 1A)
* Multifunctional inputs:	RMI/VDO: Resistor input 0-2500 Ω . Current: 4...20mA from active transducer, Input impedance 50 Ω . Binary: Dry contacts input, internal 3VDC supply. Not galvanic separated
* Tacho RPM input:	2...70 VP 10...10KHz Not galvanic separated
* Galvanic separation:	Between AC voltage, AC current, MB/GB relays and other I/O's: 2200V 50 Hz, 60 sec. Between power supply, low voltage relays, communication ports and other I/O's: 550V 50Hz, 60 sec.
* Current overload:	4 x I _n continuously (60sec) 20 x I _n , 10 sec. (max 75A) 80 x I _n , 1 sec. (max 250A)

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Type test specifications		Tested according to:
Accuracy class	2.0	IEC/EN 60688
Temperature:	-20....70oC (operating) -40....70oC (storage)	IEC 60068-2-1 IEC 60068-2-2
Climate:	97% RH	IEC 60068-2-30, test Db
Altitude:	0-2000m above sea level	
Vibration:	3...13.2Hz: 2mm _{pp} 13.2...100Hz: 0.7g 10...58.1Hz: 0.15mm _{pp} 58.1...150Hz: 1g 10...150Hz: 2g 3...8.15Hz: 15mm _{pp} 8.15...35Hz: 2g	IEC 60068-2-6 & IACS UR E10 IEC 60255-21-1 Response (Class2) IEC 60255-21-1 Endurance (Class2) IEC 60255-21-3 Seismic (Class2)
Shock:	Base mounted 10g, 11msec. half sine 30g, 11msec. half sine 50g, 11msec. half sine Tested with 3 impacts in each direction in all 3 axes. Total of 18 impacts.	IEC 60255-21-2 Response (Class 2) IEC 60255-21-2 Endurance (Class 2) IEC 60068-2-27, test Ea
Bump	20g, 16msec. half sine Tested with 1000 impacts in each direction in all 3 axes. Total of 6000 impacts.	IEC 60255-21-2 (Class 2)
Safety:	Installation CAT III 300V Pollution degree 2	EN 61010-1
EMC:		EN 61000-6-1/2/3/4 IEC 60255-26 IEC 60533 Power distr. zone IACS UR E10 Power distr. zone
Materials:	Plastic housing is self-extinguishing to UL94 (V0)	
Protection:	Unit: IP20 Front: IP52/IP65 with gasket	IEC/EN 60529

*) Tested on all units according to specifications. Remaining specifications are tested regularly by test sampling

2nd of October 2015

DEIF A/S



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