



-power in control

DEIF A/S

Type Certificate

4124030072B / JCL

Type:	Compact Genset Controllers CGC412 and CGC413
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Technical specifications

* Accuracy on AC Voltage measurement: Generator Input Range 3-Phase 4 Wire 3-Phase 3 Wire Single-Phase 2 Wire 2-Phase 3 Wire	15VAC - 360VAC (ph-N) 30VAC - 620VAC (ph- ph) 15VAC - 360VAC (ph-N) 15VAC - 360VAC (ph-N)
* Input frequency:	30 to 70Hz
* Auxiliary supply	8V DC - 35V DC < 3W consumption
* Magnetic Input range	1,5V to 24V (RMS) Can resist to 28VDC constantly
* Magnetic Input Frequency	10 – 10,000 Hz Accuracy 1/10 [Hz] @ 10-99,9 [Hz], 1 [Hz] @ 100-10000 [Hz]
Status relay (term. 3-4) Relay 21-24 outputs: Relay 26,45,47 outputs:	2A @ 35VDC 3A @ 35VDC 8A @ 250VAC/30VDC
* Binary input detection level:	Emergency Stop input: Active from 0 to 3.4 VDC Inactive from 3.5 to power supply voltage Others digital inputs: Active from 0 to 1.6 VDC Inactive from 1.7 to power supply voltage
* C.T. Secondary	5A/1A (rated) Current overload: 4 x I _n continuously 20 x I _n , 10 sec. (max. 75A) 80 x I _n , 1 sec. (max. 300A) Max consumption: 0,3VA / phase



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Type test specifications		Tested according to:
Temperature:	-25...+70°C (operating) -40...+80°C (storage)	IEC 60068-2-1 IEC 60068-2-2
Accuracy on AC voltage measurements:	Class 1.0 To IEC/EN 60688 Class 2.0 on lower range (below 70VAC)	IEC 60688
Climate:	97% RH	IEC 60068-2-30, test Db
Vibration:	5...8Hz: ±7.5mm 8...150Hz: 2g	IEC 60255-21-1 Response (Class 2) IEC 60255-21-1 Endurance (Class 2) IEC 60068-2-6
Shock:	50g, 11msec. half sine Tested with 3 impacts in each direction in all 3 axes. Total 18 impacts per test.	IEC 60255-21-2 Response (Class 2) IEC 60255-21-2 Endurance (Class 2) IEC 60068-2-27, test Ea
Bump	25g, 16msec. half sine Tested with 1000 impacts in each direction in all 3 axes.	IEC 60255-21-2 (Class 2)
Safety:	Installation Cat.III 300V Pollution degree 2	EN 61010-1 IEC 60255-27
Load Dump	24VDC system Power supply port: 123V/1Ω/100ms 174V/8Ω/350ms Coupling: DM	ISO 7637-2 – Test pulse 5
EMC:		IEC/EN 61000-6-2/4 IEC 60255-26
Materials:	All plastic parts are self-extinguishing to UL94 (V1)	
Protection:	Front: IP65 with gasket Terminals: IP20	IEC/EN 60529

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

4th July 2013

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Keld Roed

Type Approval Manager