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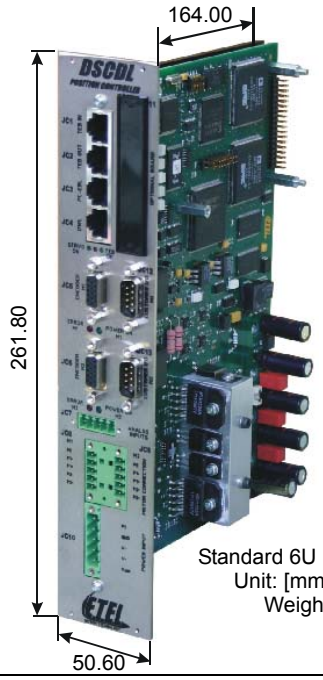
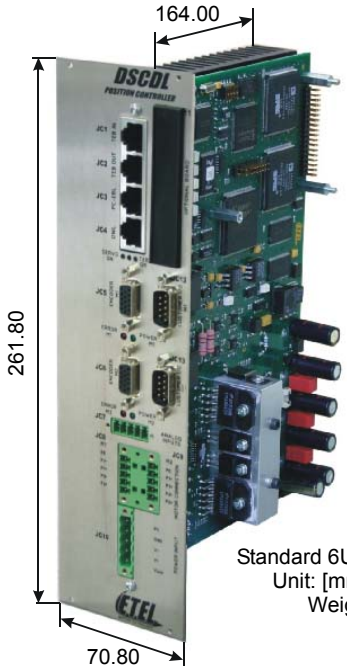
DSCDL rack series

Outline dimensions	
DSCDL331-13x	**DSCDL332-13x**



Standard 6U 10F
Unit: [mm]
Weight: 1.1Kg



Standard 6U 14F
Unit: [mm]
Weight: 1.5Kg

DSCDL CONTROL FEATURES		
General	Current loop sampling time	13.89 µs (72 KHz)
	Position loop sampling time	55.55 µs (18 KHz)
	Motion profiles	Trapezoidal / S-curve / Sine / look-up table / interpolated (DSMAX)
	32 bits floating point DSP	Dual SHARC Digital Signal Processor
Standard interfaces	ETEL-BUS-LITE 2 host (PC) communication	RS232 or RS422 / 115'200 bps
	Turbo-ETEL-Bus mutli-axis communication	100 Mbps (based on Ethernet components)
Position encoders interfaces	EnDat 2.1 compatible	RS485
	Analog 1 Vptp	Max. 400KHz in. / up to 32768 (x4) interpolation factor
	TTL encoder possible	Max 400KHz (period frequency)
	Encoder limit switch (EHO + ELS)	TTL signal
User's inputs / outputs	Digital input, insulated	4 per motor (+8 with DSO-HIO optional board but shared between both motors)
	Digital output. insulated	2 per motor (+8 with DSO-HIO optional board but shared between both motors)
	Analog input	1 per motor (+4 depending on the DSO-HIO optional board version but shared between both motors)
	Analog output	0 (+4 depending on the DSO-HIO optional board version but shared between both motors)
Software / programmability	ETEL Tools software for setting / monitoring	Windows 9x / XP / 2000 / NT
	DLL files (C / C++ / VB / LV)	Windows 9x / XP / 2000 / NT / QNX4
	User's programmable sequence	4096 lines per axis
	Firmware update	RS232 / Turbo-ETEL-Bus

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DSCDL POWER FEATURES			
Characteristics		**DSCDL331-13x**	**DSCDL332-13x**
Output to the motor (per motor)	Voltage	±36VDC	
	Current range on product label	1.2 Arms / 2.9 Arms (1s)	2.4 Arms / 3.6 Arms (1s)
	One-phase motor Max. full load current	1.5[1] A (1.06 Arms)	2.3[1] A (1.62 Arms)
	One-phase motor Max overload current during 2 seconds	4[1] A (2.82 Arms)	5[1] A (3.53 Arms)
	Two-phase motor Max. full load current	1.7[1] A (1.2 Arms)	3.5[1] A (2.47 Arms)
	Two-phase motor Max overload current during 2 seconds	4[1] A (2.82 Arms)	5[1] A (3.53 Arms)
Power supply input	DC voltage	±36VDC	
	Max. DC current (at ±36VDC)	5 A[2]	10 A[2]
Auxiliary supply input	DC voltage	+15VDC to +36VDC	
	Max. current at 15VDC	1.5 A[2]	
	Max. current at 36VDC	750 mA[2]	
Maximum current measurable by the drive		6.25 A	

[1]: Continuous current can be reached only with forced air cooling (external fan necessary)
[2]: With optional board mounted on the DSCDL, no external device connected to the I/O. The current can change depending on the type(s) of encoder(s) used.

Remark: The values given in the above-mentioned table are given for a sinusoidal output current with a frequency higher than 0.5 Hz. The losses induced by a AC current are shared between the transistors. A DC current heat up only some of the power elements and can induce their breakdown after 10 minutes if the current is near the maximum full load.

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