

DIN EN 50155:2018 and the WAGO I/O System 750 XTR

Railway Applications – Rolling Stock – Electronic Equipment



5. Electrical service conditio	ns				
5.1 Power supply					
5.1.1.2 DC power supply range			Minimum continuous voltage 0.7 x U _n Maximum continuous voltage 1.25 x U _n	Ful- filled	
5.1.1.3 Temporary DC power supply fluctuation			Minimum fluctuation voltage 0.6 x U_n Maximum fluctuation voltage 1.4 x U_n	Ful- filled	
5.1.1.4 Interruptions of voltage supply		S1 S2 S3	None ≤10 ms ≤20 ms	S1	(S2/S3 must be secured via a suitable exter- nal power supply if necessary)
5.1.3 Change-over classes (supply)		C1 C2	0.6 x UN (100 ms) U _N (30 ms)	C1	
5.2 Installation requirements	;				
5.2.3 Electromagnetic compatibility	EN 50121-3-2 EN 50121-4 EN 50121-5			Ful- filled	The following filter modules must be used: 750-626/040-00 or 750-624/040-001
5.2.6 Insulation	EN 50124-1	OV1 OV2 OV3 OV4		OV2	Rated surge voltage as a function of the rated insulation voltage
6. Reliability, maintainability	and expected us	seful life			
6.2 Useful life		L1 L2 L3 L4 LX	5 years 10 years 15 years 20 years As agreed	LX	
MTBF values (per MIL-HDBK-2	217-F2)	Available	and are provided upon	reques	st on a project-specific basis.
7. Design					
7.3 Detailed practices – Software	Development ac Developed to me	cording to A eet IRIS, mod	Annex G dular construction, prote	ected a	gainst external errors (short circuit, open circuit)
8. Non-railway designed electronic equipment					
Development and documentation according to Annex G					
9. Components					
Sophisticated components have been optimized and carefully selected according to environmental requirements before being integrated. These permit eXTReme capabilities to be packaged into such a compact and finely modular system.					
10. Construction		201			
10.7 Protective coatings for printed board assemblies		PC1 PC2 PCX	None Protective coating on both sides As agreed	PC2	
11. Safety					
11.3 Fire behavior requirements	EN 455545-2			HL3	
12. Documentation					
Development according to Ann	ex G				
EBA (German Federal Railway Authority) Regulation No. EMC 06 – Technical Rules on Electromagnetic Compatibility: Certification of the radio compatibility of rail vehicles with railway radio services					
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