

IEC 61727

4.4	TABLE: DC Injection						P
Power conditions	33%		66%		100%		
Limits	1% of I _{rated}						
Measurement	[A]	[%]	[A]	[%]	[A]	[%]	
Test Model: SH3.0RS							
Test value	0.032	0.248	0.031	0.238	0.032	0.248	
Test Model: SH6.0RS							
Test value	0.044	0.169	0.049	0.188	0.057	0.219	
Supplementary information:							

4.6	TABLE: Harmonics and waveform distortion (Current)				P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
Test Model: SH3.0RS						
2 nd	0.135	0.175	0.248	1	P	
3 rd	0.181	0.403	0.493	4	P	
4 th	0.042	0.063	0.070	1	P	
5 th	0.368	0.444	0.544	4	P	
6 th	0.047	0.048	0.056	1	P	
7 th	0.636	0.953	1.783	4	P	
8 th	0.052	0.055	0.057	1	P	
9 th	1.271	0.693	1.273	4	P	
10 th	0.085	0.074	0.098	0.5	P	
11 th	0.623	0.429	0.912	2	P	
12 th	0.058	0.063	0.086	0.5	P	
13 th	0.164	0.287	0.871	2	P	
14 th	0.047	0.056	0.063	0.5	P	
15 th	0.316	0.280	0.636	2	P	
16 th	0.067	0.074	0.084	0.5	P	
17 th	0.412	0.496	0.604	1.5	P	
18 th	0.052	0.080	0.095	0.5	P	
19 th	0.536	0.148	0.058	1.5	P	
20 th	0.054	0.056	0.065	0.5	P	
21 th	0.125	0.450	0.257	1.5	P	

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4.6	TABLE: Harmonics and waveform distortion (Current)				P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
22 th	0.066	0.119	0.102	0.5	P	
23 th	0.116	0.481	0.349	0.6	P	
24 th	0.095	0.162	0.201	0.5	P	
25 th	0.359	0.331	0.451	0.6	P	
26 th	0.142	0.179	0.161	0.5	P	
27 th	0.337	0.351	0.191	0.6	P	
28 th	0.117	0.121	0.077	0.5	P	
29 th	0.087	0.414	0.112	0.6	P	
30 th	0.089	0.097	0.101	0.5	P	
31 th	0.232	0.260	0.383	0.6	P	
32 th	0.104	0.110	0.109	0.5	P	
33 th	0.257	0.191	0.297	0.6	P	
THD (to the 33 th)	1.930	1.878	2.948	5	P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
Test Model: SH3.6RS						
2 nd	0.101	0.184	0.255	1	P	
3 rd	0.167	0.406	0.444	4	P	
4 th	0.044	0.072	0.074	1	P	
5 th	0.308	0.427	0.498	4	P	
6 th	0.047	0.044	0.047	1	P	
7 th	0.173	1.168	1.617	4	P	
8 th	0.044	0.060	0.062	1	P	
9 th	0.917	0.755	1.327	4	P	
10 th	0.094	0.071	0.083	0.5	P	
11 th	0.710	0.641	0.734	2	P	
12 th	0.049	0.058	0.063	0.5	P	
13 th	0.474	0.225	0.809	2	P	
14 th	0.044	0.047	0.048	0.5	P	
15 th	0.266	0.331	0.780	2	P	
16 th	0.057	0.073	0.059	0.5	P	

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4.6	TABLE: Harmonics and waveform distortion (Current)				P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
17 th	0.190	0.242	0.595	1.5	P	
18 th	0.049	0.077	0.076	0.5	P	
19 th	0.406	0.171	0.309	1.5	P	
20 th	0.059	0.072	0.059	0.5	P	
21 th	0.196	0.077	0.073	1.5	P	
22 th	0.077	0.114	0.089	0.5	P	
23 th	0.192	0.387	0.515	0.6	P	
24 th	0.127	0.145	0.165	0.5	P	
25 th	0.374	0.261	0.135	0.6	P	
26 th	0.145	0.172	0.134	0.5	P	
27 th	0.317	0.159	0.191	0.6	P	
28 th	0.082	0.080	0.086	0.5	P	
29 th	0.075	0.193	0.403	0.6	P	
30 th	0.082	0.113	0.080	0.5	P	
31 th	0.311	0.348	0.206	0.6	P	
32 th	0.101	0.105	0.089	0.5	P	
33 th	0.209	0.234	0.249	0.6	P	
THD (to the 33 th)	1.613	1.907	2.817	5	P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
Test Model: SH4.0RS						
2 nd	0.109	0.161	0.236	1	P	
3 rd	0.297	0.424	0.347	4	P	
4 th	0.038	0.048	0.052	1	P	
5 th	0.265	0.387	0.457	4	P	
6 th	0.031	0.036	0.043	1	P	
7 th	0.033	1.131	1.440	4	P	
8 th	0.038	0.046	0.051	1	P	
9 th	0.552	0.752	1.214	4	P	
10 th	0.052	0.070	0.061	0.5	P	
11 th	0.495	0.662	0.730	2	P	

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4.6	TABLE: Harmonics and waveform distortion (Current)				P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
12 th	0.042	0.060	0.058	0.5	P	
13 th	0.554	0.328	0.618	2	P	
14 th	0.040	0.041	0.045	0.5	P	
15 th	0.366	0.346	0.711	2	P	
16 th	0.060	0.045	0.047	0.5	P	
17 th	0.246	0.233	0.617	1.5	P	
18 th	0.046	0.057	0.065	0.5	P	
19 th	0.232	0.170	0.412	1.5	P	
20 th	0.051	0.069	0.052	0.5	P	
21 th	0.092	0.095	0.245	1.5	P	
22 th	0.065	0.068	0.079	0.5	P	
23 th	0.259	0.289	0.363	0.6	P	
24 th	0.097	0.100	0.120	0.5	P	
25 th	0.371	0.122	0.297	0.6	P	
26 th	0.100	0.138	0.126	0.5	P	
27 th	0.191	0.133	0.142	0.6	P	
28 th	0.050	0.068	0.073	0.5	P	
29 th	0.091	0.141	0.304	0.6	P	
30 th	0.053	0.086	0.062	0.5	P	
31 th	0.249	0.326	0.170	0.6	P	
32 th	0.071	0.067	0.075	0.5	P	
33 th	0.140	0.182	0.244	0.6	P	
THD (to the 33 th)	1.304	1.834	2.553	5	P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
Test Model: SH5.0RS						
2 nd	0.143	0.161	0.236	1	P	
3 rd	0.294	0.290	0.306	4	P	
4 th	0.053	0.044	0.034	1	P	
5 th	0.372	0.337	0.426	4	P	
6 th	0.049	0.035	0.037	1	P	

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4.6	TABLE: Harmonics and waveform distortion (Current)				P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
7 th	0.103	1.095	1.252	4	P	
8 th	0.045	0.039	0.045	1	P	
9 th	0.957	0.761	1.045	4	P	
10 th	0.086	0.058	0.055	0.5	P	
11 th	0.816	0.572	0.752	2	P	
12 th	0.059	0.051	0.056	0.5	P	
13 th	0.675	0.519	0.559	2	P	
14 th	0.055	0.038	0.046	0.5	P	
15 th	0.385	0.392	0.509	2	P	
16 th	0.084	0.061	0.035	0.5	P	
17 th	0.215	0.370	0.609	1.5	P	
18 th	0.050	0.063	0.053	0.5	P	
19 th	0.397	0.036	0.463	1.5	P	
20 th	0.068	0.039	0.060	0.5	P	
21 th	0.186	0.169	0.297	1.5	P	
22 th	0.092	0.073	0.043	0.5	P	
23 th	0.292	0.202	0.457	0.6	P	
24 th	0.164	0.138	0.161	0.5	P	
25 th	0.514	0.265	0.137	0.6	P	
26 th	0.165	0.113	0.073	0.5	P	
27 th	0.378	0.122	0.175	0.6	P	
28 th	0.090	0.047	0.060	0.5	P	
29 th	0.101	0.087	0.407	0.6	P	
30 th	0.084	0.077	0.097	0.5	P	
31 th	0.358	0.216	0.145	0.6	P	
32 th	0.114	0.074	0.056	0.5	P	
33 th	0.243	0.177	0.201	0.6	P	
THD (to the 33 th)	1.881	1.799	2.330	5	P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
Test Model: SH6.0RS						

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4.6	TABLE: Harmonics and waveform distortion (Current)				P	
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict	
	33%	66%	100%			
2 nd	0.097	0.158	0.300	1	P	
3 rd	0.218	0.267	0.779	4	P	
4 th	0.032	0.043	0.121	1	P	
5 th	0.224	0.288	0.299	4	P	
6 th	0.026	0.028	0.104	1	P	
7 th	0.518	0.934	1.186	4	P	
8 th	0.033	0.033	0.086	1	P	
9 th	0.359	0.766	1.019	4	P	
10 th	0.034	0.047	0.095	0.5	P	
11 th	0.239	0.423	0.836	2	P	
12 th	0.034	0.036	0.069	0.5	P	
13 th	0.140	0.471	0.615	2	P	
14 th	0.028	0.030	0.059	0.5	P	
15 th	0.145	0.452	0.431	2	P	
16 th	0.040	0.036	0.046	0.5	P	
17 th	0.232	0.341	0.426	1.5	P	
18 th	0.043	0.044	0.034	0.5	P	
19 th	0.076	0.175	0.402	1.5	P	
20 th	0.029	0.037	0.054	0.5	P	
21 th	0.202	0.046	0.305	1.5	P	
22 th	0.073	0.049	0.044	0.5	P	
23 th	0.239	0.310	0.378	0.6	P	
24 th	0.086	0.102	0.107	0.5	P	
25 th	0.169	0.079	0.179	0.6	P	
26 th	0.096	0.083	0.045	0.5	P	
27 th	0.156	0.101	0.194	0.6	P	
28 th	0.056	0.058	0.088	0.5	P	
29 th	0.219	0.234	0.235	0.6	P	
30 th	0.047	0.057	0.074	0.5	P	
31 th	0.121	0.128	0.128	0.6	P	
32 th	0.068	0.052	0.061	0.5	P	

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4.6	TABLE: Harmonics and waveform distortion (Current)				P
Harmonics	Measurements (Percentage of Rated Current) [%]			Limits [%]	Verdict
	33%	66%	100%		
33 th	0.089	0.136	0.187	0.6	P
THD (to the 33 th)	0.968	1.634	2.323	5	P