

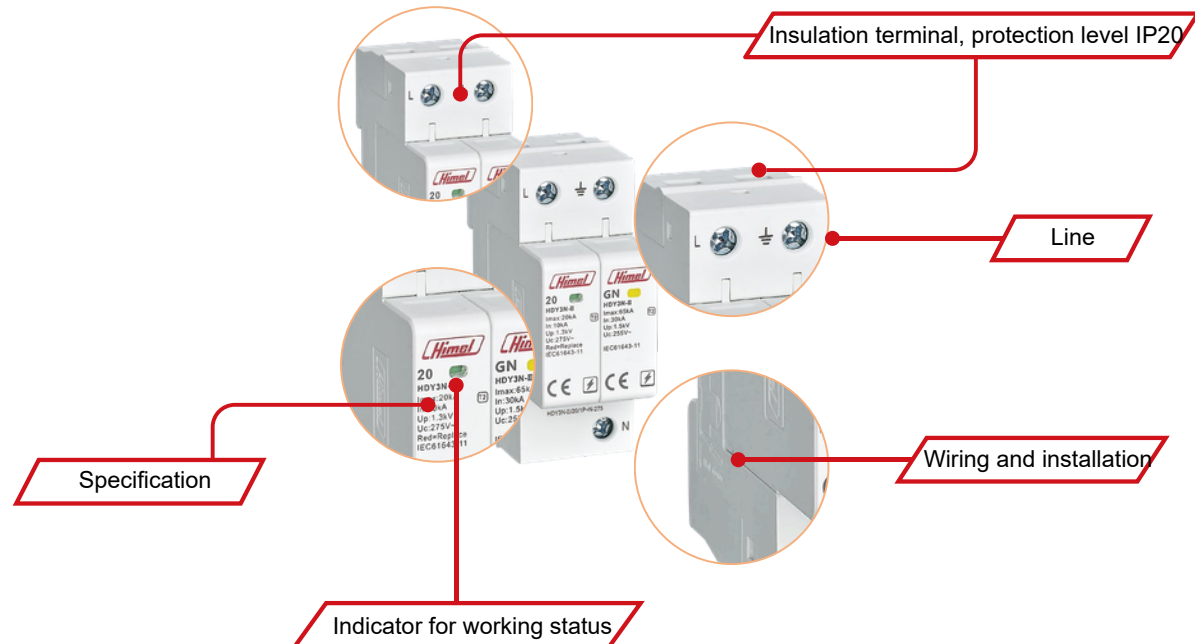
# HDY3N Power Surge Protector

Standard: IEC61643-1



Main features						
Rated voltage Uo	230V					
Poles	1P, 2P, 3P, 4P, 1P+N, 3P+N					
Protection rating	II					
Waveform	8/20us					
Product model	HDY3N-20	HDY3N-40	HDY3N-65	HDY3N-80	HDY3N-120	HDY3N-160
Nominal discharge current In	10kA	20kA	30kA	40kA	60kA	80kA
Maximum discharge current Imax	20kA	40kA	65kA	80kA	120kA	160kA
Maximum allowable backup fuse strength(gL)	50A	100A	125A	160A	200A	250A
Maximum continuous operating voltage Uc	275/385/440V	275/385/440V	275/385/440V	275/385/440V	275/385/440V	275/385/440V
Protection level Up	1.3/1.6/1.8kV	1.5/1.8/2.0kV	1.6/2.0/2.2kV	1.8/2.2/2.2kV	2.2/2.5/2.5kV	3.2/3.3/3.4kV
Response time	≤25ns					
Operating state indicator	Green: normal; red: fault					
Terminal wiring capacity	Solid line≤35mm <sup>2</sup> , soft line 2.5-25mm <sup>2</sup> ,torque 3.5N.m					
Optional accessories	Available (YX remote signaling)					

## Product Detail Display



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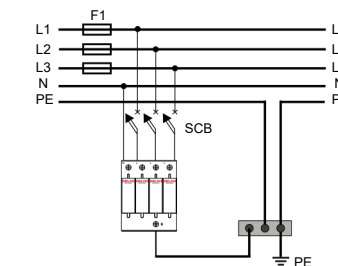
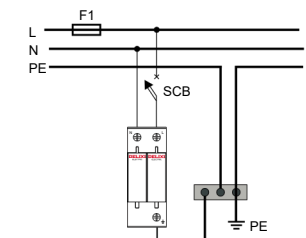


## HDY3N Selection Guide

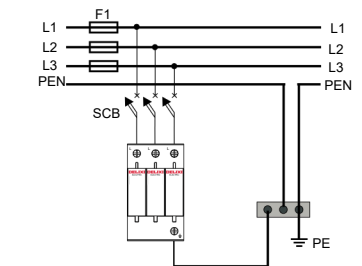
Product name	Protection Type	Maximum discharge current	Poles	Maximum continuous voltage	Accessories
<b>HDY3N</b>	<b>Default</b>	<b>65</b>	<b>2</b>	<b>275</b>	<b>YX</b>
<b>HDY3N</b>	<b>Default: II</b>	<b>20: 20kA</b> <b>40: 40kA</b> <b>65: 65kA</b> <b>80: 80kA</b> <b>120: 120kA</b> <b>160: 160kA</b>	<b>1: 1P</b> <b>2: 2P</b> <b>3: 3P</b> <b>4: 4P</b> <b>5: 1P+N</b> <b>6: 3P+N</b>	<b>Default: 385V</b> <b>275: 275V</b> <b>440: 440V</b>	<b>YX: Remote signaling</b> <b>Default: No remote signaling</b>

## HDY3N Wiring Diagram

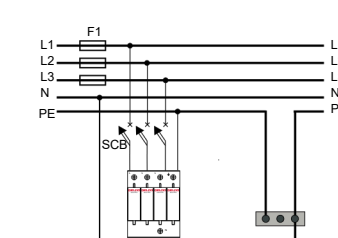
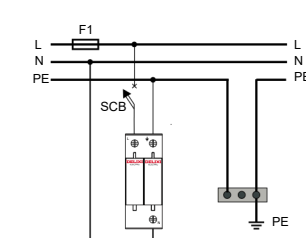
TN-S System Installation Diagram



TN-C System Installation Diagram



TT System Installation Diagram



# HDY3N Power Surge Protector

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## Order Information

Protection Type Default	Maximum discharge current	Poles	Maximum continuous voltage					
			275		385		440	
20	20	1P	HDY3N201275		HDY3N201		HDY3N201440	
		2P	HDY3N202275	HDY3N202275YX	HDY3N202	HDY3N202YX	HDY3N202440	HDY3N202440YX
		3P	HDY3N203275	HDY3N203275YX	HDY3N203	HDY3N203YX	HDY3N203440	HDY3N203440YX
		4P	HDY3N204275	HDY3N204275YX	HDY3N204	HDY3N204YX	HDY3N204440	HDY3N204440YX
		1P+N	HDY3N205275	HDY3N205275YX	HDY3N205	HDY3N205YX	HDY3N205440	HDY3N205440YX
		3P+N	HDY3N206275	HDY3N206275YX	HDY3N206	HDY3N206YX	HDY3N206440	HDY3N206440YX
40	40	1P	HDY3N401275		HDY3N401		HDY3N401440	
		2P	HDY3N402275	HDY3N402275YX	HDY3N402	HDY3N402YX	HDY3N402440	HDY3N402440YX
		3P	HDY3N403275	HDY3N403275YX	HDY3N403	HDY3N403YX	HDY3N403440	HDY3N403440YX
		4P	HDY3N404275	HDY3N404275YX	HDY3N404	HDY3N404YX	HDY3N404440	HDY3N404440YX
		1P+N	HDY3N405275	HDY3N405275YX	HDY3N405	HDY3N405YX	HDY3N405440	HDY3N405440YX
		3P+N	HDY3N406275	HDY3N406275YX	HDY3N406	HDY3N406YX	HDY3N406440	HDY3N406440YX
65	65	1P	HDY3N651275		HDY3N651		HDY3N651440	
		2P	HDY3N652275	HDY3N652275YX	HDY3N652	HDY3N652YX	HDY3N652440	HDY3N652440YX
		3P	HDY3N653275	HDY3N653275YX	HDY3N653	HDY3N653YX	HDY3N653440	HDY3N653440YX
		4P	HDY3N654275	HDY3N654275YX	HDY3N654	HDY3N654YX	HDY3N654440	HDY3N654440YX
		1P+N	HDY3N655275	HDY3N655275YX	HDY3N655	HDY3N655YX	HDY3N655440	HDY3N655440YX
		3P+N	HDY3N656275	HDY3N656275YX	HDY3N656	HDY3N656YX	HDY3N656440	HDY3N656440YX
80	80	1P	HDY3N801275	HDY3N801275YX	HDY3N801	HDY3N801YX	HDY3N801440	HDY3N801440YX
		2P	HDY3N802275	HDY3N802275YX	HDY3N802	HDY3N802YX	HDY3N802440	HDY3N802440YX
		3P	HDY3N803275	HDY3N803275YX	HDY3N803	HDY3N803YX	HDY3N803440	HDY3N803440YX
		4P	HDY3N804275	HDY3N804275YX	HDY3N804	HDY3N804YX	HDY3N804440	HDY3N804440YX
		1P+N	HDY3N805275	HDY3N805275YX	HDY3N805	HDY3N805YX	HDY3N805440	HDY3N805440YX
		3P+N	HDY3N806275	HDY3N806275YX	HDY3N806	HDY3N806YX	HDY3N806440	HDY3N806440YX
120	120	1P	HDY3N1201275	HDY3N1201275YX	HDY3N1201	HDY3N1201YX	HDY3N1201440	HDY3N1201440YX
		2P	HDY3N1202275	HDY3N1202275YX	HDY3N1202	HDY3N1202YX	HDY3N1202440	HDY3N1202440YX
		3P	HDY3N1203275	HDY3N1203275YX	HDY3N1203	HDY3N1203YX	HDY3N1203440	HDY3N1203440YX
		4P	HDY3N1204275	HDY3N1204275YX	HDY3N1204	HDY3N1204YX	HDY3N1204440	HDY3N1204440YX
		1P+N	HDY3N1205275	HDY3N1205275YX	HDY3N1205	HDY3N1205YX	HDY3N1205440	HDY3N1205440YX
		3P+N	HDY3N1206275	HDY3N1206275YX	HDY3N1206	HDY3N1206YX	HDY3N1206440	HDY3N1206440YX
160	160	1P	HDY3N1601275	HDY3N1601275YX	HDY3N1601	HDY3N1601YX	HDY3N1601440	HDY3N1601440YX
		2P	HDY3N1602275	HDY3N1602275YX	HDY3N1602	HDY3N1602YX	HDY3N1602440	HDY3N1602440YX
		3P	HDY3N1603275	HDY3N1603275YX	HDY3N1603	HDY3N1603YX	HDY3N1603440	HDY3N1603440YX
		4P	HDY3N1604275	HDY3N1604275YX	HDY3N1604	HDY3N1604YX	HDY3N1604440	HDY3N1604440YX
		1P+N	HDY3N1605275	HDY3N1605275YX	HDY3N1605	HDY3N1605YX	HDY3N1605440	HDY3N1605440YX
		3P+N	HDY3N1606275	HDY3N1606275YX	HDY3N1606	HDY3N1606YX	HDY3N1606440	HDY3N1606440YX

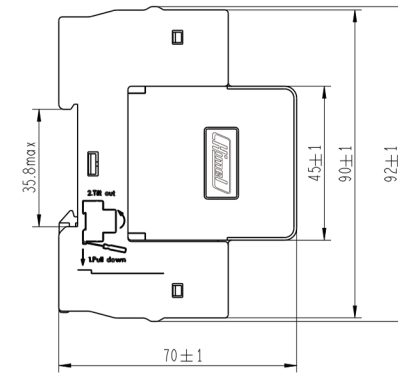
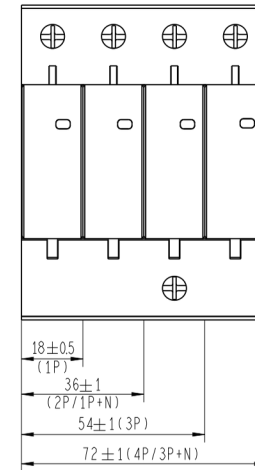
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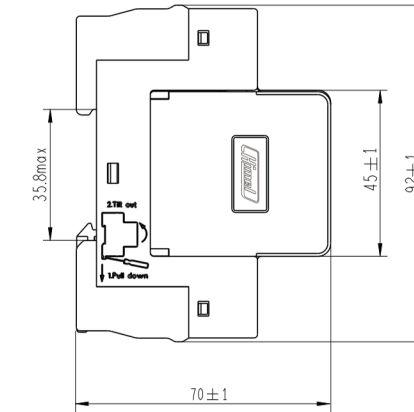
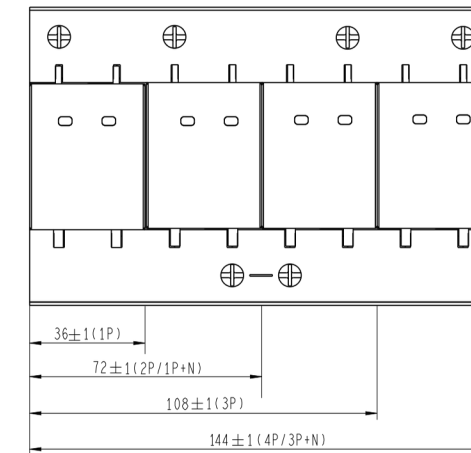


## Overall Dimensions

HDY3N 20/40/65kA



HDY3N 80/120kA



HDY3N 160kA

