



Enhanced SPDs (SPD*)

“Lower value of P_{SPD} ” in Risk Assessment
 (Annex Table MS IEC 62305-2)

“Lower (therefore better) voltage protection levels
 (let-through)”

Ensure continuous operation of equipment
 “Full Mode Protection”



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 (Annex Table MS IEC 62305-2) **Probability of damage P_x**

LPL	SPD	P_{SPD}
No coordinated SPD protection		1
III-IV	III-IV III-IV* (note 3)	0.03 0.003
II	II II* (note 3)	0.02 0.002
I	I I* (note 3)	0.01 0.001

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Probability of damage P_X



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The probability of a particular type of damage is determined by the choice of characteristics and protection measures. Shown below are some of the relevant tables for the probability of damage.

The ultimate protection measures proposed by the standard are shown in the following table.

P_X	Source of damage ⁽¹⁾	Type of damage ⁽¹⁾
P_A	S1	D1
P_B	S1	D2
P_C	S1	D3
P_M	S2	D3
P_U	S3	D1
P_V	S3	D2
P_W	S3	D3
P_Z	S4	D3

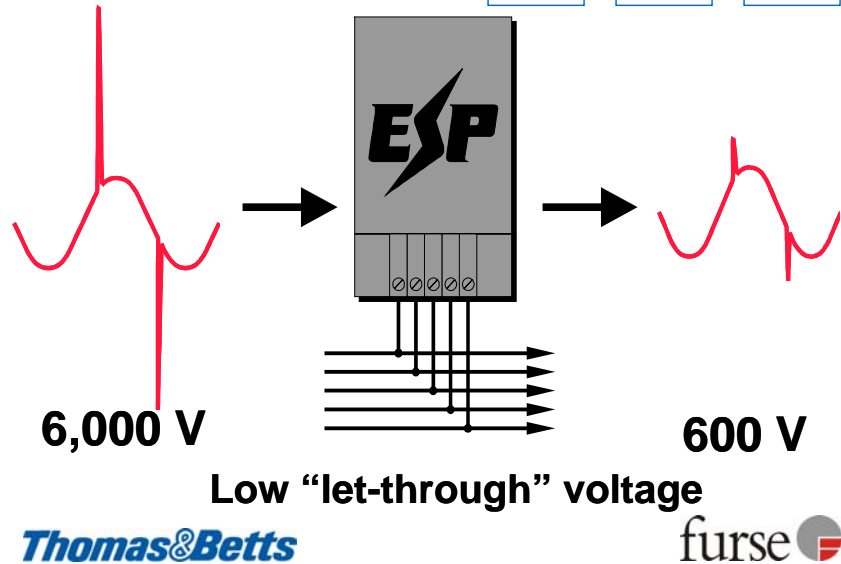
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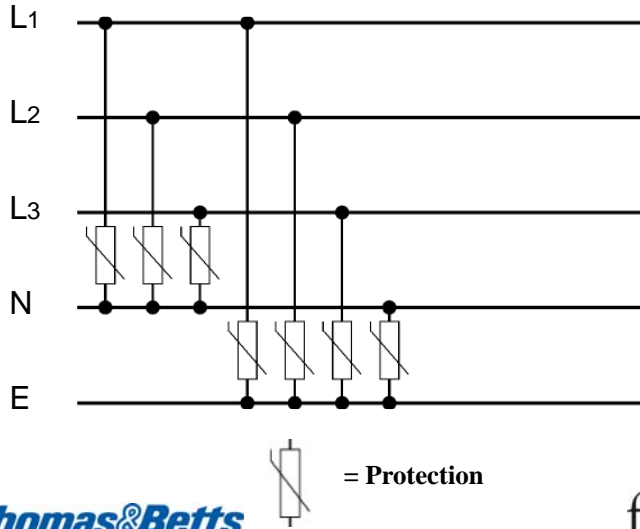
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“Full Mode Protection”

MS IEC / BS EN 62305-2



Full Mode Protection



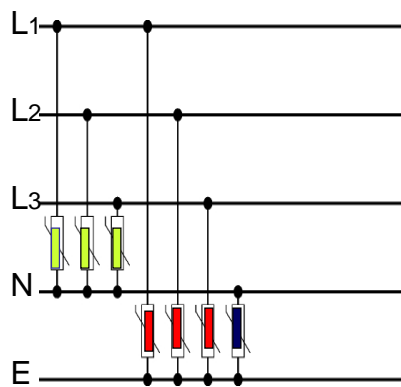
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Protection In All Modes



Dedicated Protection Between

L1-N

L2-N

L3-N

Dedicated Protection Between

L1-E

L2-E

L3-E

Dedicated Protection Between

N-E

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