C/ FM	SC FM	P1	L10	# [-1	C/ FM	SC FM	P <b>7</b>	L <b>7</b>	# <mark>I-</mark> 3
Grow, Robe	rt	RMG Consulti	ng		Grow, Robe	t	RMG Consulti	ng	
	, have 9 appro	Comment Status <b>A</b> oved amendments and this is the ly labled Amendment 10	ne only project in	EZ n SA ballot. I believe		people that	Comment Status <b>A</b> voted is now known.		
S <i>uggestedR</i> Conditio	emedy nal on Mr. La	w assigning the number, changed			SuggestedR Please f Response	•	3 list of those that voted. Response Status <b>C</b>		
Response ACCEP		Response Status <b>C</b>	iu p. 11, Line St	(Amenument To).	ACCEP		,	a tha ramadu fa	r commont   E
	SC FM	P1	L23	# 1-2			nent I-5 is "Populate the list of V		
Grow, Robe		RMG Consulti		# [-2	C/ FM	SC FM	P <b>7</b>	L15	# <mark>I-5</mark>
Comment Ty		Comment Status A		F7	Anslow, Pet	er	Self		
	and IEEE S	td 802.3cm-2020." to "IEEE Sto 02.3ca-20xx." Response Status <b>C</b>	1 802.3cm-2020	, IEEE Std 802.3ch-	SuggestedR Populate Response ACCEP	e the list of W	′orking Group ballot members. <i>Response Status</i> <b>C</b>		
ACCEP	T IN PRINCIP	νLΕ.			C/ FM	SC FM	P <b>11</b>	L <b>19</b>	# <mark>I-2</mark> 1
		td 802.3cm-2020." to "IEEE Sto 302.3ca-2020."	1 802.3cm-2020	, IEEE Std 802.3ch-	Wienckowsk <i>Comment T</i> y	,	General Motor Comment Status A	s Company	
FM	SC FM	P <b>1</b>	L23	# [-4	802.3ch	was approve	d by the standards board.		
Anslow, Pete	er	Self			SuggestedR	emedy			
Comment Ty	/pe E	Comment Status A			Change	20xx to 2020			
There ar	re now 9 appi	roved amendments.			Response		Response Status C		
	and IEEE S	td 802.3cm-2020." to "IEEE Sto 302.3ca-2020."	1 802.3cm-2020	, IEEE Std 802.3ch-	ACCEP	Г.			
Response ACCEP <sup>-</sup>	Т.	Response Status C							

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ FM SC FM

C/FM SC FM	P11	L <b>21</b>	# I-20	C/ 0	SC O	Р	L	# <mark>I-19</mark>
Wienckowski, Natalie	General Moto	ors Company		Maytum, Mi	hael	Retired	Retired/Unemployed	
Comment Type E	Comment Status A			Comment Ty	pe TR	Comment Status X		
Change to match u	update made to ch description for	r publication.				5 PCS Loopback, simply		
SuggestedRemedy					solated from solation. Cla	the network medium". F	or PoDL, IEEE Std 80	02.3-2018 has clause
Change: Clause 14 To: Clause 149, A	49 and Annex 149A nnex 149A			"In order isolation	to prevent th between all a	e formation of a ground accessible external cond	uctors, including fram	e ground (if any), and
Response	Response Status C					neasured using at least a		
ACCEPT.						through a non-MDI coni between all accessible		
C/FM SC FM	P11	L <b>26</b>	# 1-22			MDI connector, so as not		
Vienckowski, Natalie	General Moto	ors Company				BASE-T1L can run up to		
Comment Type E	Comment Status A					Further the PSE may be sulation resistance mean		
802.3ca was appro	oved by the standards board.					e standard 2-pair and 4 p		
SuggestedRemedy				SuggestedR	emedy			
Change 20xx to 20	)20					e 104.6.1 Isolation add.		
Response	Response Status <b>C</b>					on of 10BASE-T1L PDs s		
ACCEPT.	,			Proposed R	esponse	Response Status V	l l	
C/O SCO	Р	L	# I-11	TFTD				
		ed/Unemployed		CI 0	SC O	P <b>2</b>	L <b>4</b>	# <mark>I-10</mark>
lavtum Michael	Ratirad Ratir							
<b>,</b>	,	cu/onemployeu		Maytum, Mi	hael	Retired	Retired/Unemployed	
Comment Type TR	Comment Status X		lese are basic, double	Maytum, Mi Comment Ty		Retired Comment Status X		
Comment Type TR There are various functional, reinforc	,	62368-1:2018. Th tional insulation a	nd the treatment	Comment Ty Keyword IEC 623	<i>pe</i> <b>TR</b> s: Ethernet; I 58-1:2018 on	Comment Status X EC 60950; IEC 62368; Is ly uses isolation in the co	solation; safety.	ock circuits, mains
Comment Type TR There are various functional, reinforc thereof is uniquely	Comment Status X classes of insulation used in IEC ed, solid or supplementary. Func	62368-1:2018. Th tional insulation a	nd the treatment	Comment Ty Keyword IEC 623 disconn	pe <b>TR</b> s: Ethernet; I 58-1:2018 on ect device and	Comment Status X EC 60950; IEC 62368; Is ly uses isolation in the co d Touch current from coa	solation; safety. ontext of mains Interlo uxial cables (galvanic	ock circuits, mains isolation, which usually
Comment Type TR There are various functional, reinforc thereof is uniquely SuggestedRemedy	Comment Status X classes of insulation used in IEC ed, solid or supplementary. Func	62368-1:2018. Th ctional insulation a se B.4.4 Functiona	nd the treatment	Comment Ty Keyword IEC 623 disconn consists	pe <b>TR</b> s: Ethernet; I 58-1:2018 on ect device and	Comment Status X EC 60950; IEC 62368; Is ly uses isolation in the co d Touch current from coa acitors). IEC 62368-1 us	solation; safety. ontext of mains Interlo uxial cables (galvanic	ock circuits, mains isolation, which usually
Comment Type TR There are various functional, reinforc thereof is uniquely SuggestedRemedy Add functional insu functional insulatio	Comment Status X classes of insulation used in IEC ed, solid or supplementary. Func handled by IEC 62368-1 in claus ulation definition from IEC 62368- in: insulation between conductive	62368-1:2018. Th ctional insulation a se B.4.4 Functiona -1:2018	nd the treatment I insulation	Comment Ty Keyword IEC 623 disconn consists	pe TR s: Ethernet; I 58-1:2018 on ect device and of series cap 2.3 term "isol	Comment Status X EC 60950; IEC 62368; Is ly uses isolation in the co d Touch current from coa acitors). IEC 62368-1 us	solation; safety. ontext of mains Interlo uxial cables (galvanic	ock circuits, mains isolation, which usually
Comment Type TR There are various functional, reinforc thereof is uniquely SuggestedRemedy Add functional insulatio functional insulatio proper functioning	Comment Status X classes of insulation used in IEC ed, solid or supplementary. Func handled by IEC 62368-1 in claus ulation definition from IEC 62368- in: insulation between conductive of the equipment	62368-1:2018. Tr ctional insulation a se B.4.4 Functiona -1:2018 e parts which is ne	nd the treatment I insulation cessary only for the	Comment Ty Keyword IEC 623 disconn- consists IEEE 80 SuggestedF	pe TR s: Ethernet; I 58-1:2018 on ect device and of series cap 2.3 term "isol emedy	Comment Status X EC 60950; IEC 62368; Is ly uses isolation in the co d Touch current from coa acitors). IEC 62368-1 us	solation; safety. ontext of mains Interlo ixial cables (galvanic es the term "function	ock circuits, mains isolation, which usually
There are various of functional, reinforc thereof is uniquely SuggestedRemedy Add functional insu functional insulatio proper functioning	Comment Status X classes of insulation used in IEC ed, solid or supplementary. Func handled by IEC 62368-1 in claus ulation definition from IEC 62368- in: insulation between conductive	62368-1:2018. Tr ctional insulation a se B.4.4 Functiona -1:2018 e parts which is ne	nd the treatment I insulation cessary only for the	Comment Ty Keyword IEC 623 disconn- consists IEEE 80 SuggestedF	pe TR s: Ethernet; I 58-1:2018 on ect device and of series cap 2.3 term "isol emedy term "function	Comment Status X EC 60950; IEC 62368; Is ly uses isolation in the co d Touch current from coa pacitors). IEC 62368-1 us ation".	solation; safety. ontext of mains Interlo ixial cables (galvanic es the term "function ds	ock circuits, mains isolation, which usually

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed U/unsatisfied Z/withdrawn SORT ORDER: Clause, Subclause, page, line

CI 0 SC 0

CIO SCO	P <b>2</b>	L <b>5</b>	# I-46	CIO SO	C 0	F	₽25	L13	# I-12
Bustos Heredia, Jairo	Wurth Elektro	onik eiSos		Maytum, Micha	el	Re	tired,Retire	d/Unemployed	
Comment Type E	Comment Status D			Comment Type	TR	Comment State	us X		
The word "Isolation" is c	apitalized whereas the next	word "safety" is	not.	"Isolation in	npedance I	between", but J1 do	oesn't menti	ion impedance	
SuggestedRemedy				SuggestedRem	ledy				
Change "Isolation" with '	"isolation".			Delete "imp	edance"				
Proposed Response	Response Status W			Proposed Resp	onse	Response Statu	us W		
PROPOSED ACCEPT.				TFTD					
CIO SCO	P <b>22</b>	L <b>3</b>	# 1-45	CIO SO	C 0	F	₽39	L <b>40</b>	# <b>I-</b> 47
Bustos Heredia, Jairo	Wurth Elektro	onik eiSos		Bustos Heredia	i, Jairo	Wu	urth Elektro	nik eiSos	
comment Type E	Comment Status D			Comment Type	Е	Comment State	us <b>D</b>		
					cript to rofe	erence the foot note	ie mieeina	Another incons	istancy has been
	roughout the draft when wri so been found in following pa			The supers found on pa			s is missing		istency has been
Inconsistencies have als Table 14.10.4.5.11)	so been found in following pa				age 41 line		is missing	. Another incons	istency has been
Inconsistencies have als	so been found in following pa			found on pa	age 41 line Nedy				istency has been
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14	so been found in following pa			found on pa	age 41 line hedy rscript to h	9.	·1".		istency has been
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy	so been found in following pa	ages and lines: F		found on pa SuggestedRem Insert supe	age 41 line hedy rscript to ha	9. ave: "IEC 60950-1^ <i>Response Statu</i>	·1".		istency has been
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy Change "Electrical Isolat Proposed Response	so been found in following pa	ages and lines: F		found on pa SuggestedRem Insert supe Proposed Resp PROPOSE	age 41 line hedy rscript to ha	9. ave: "IEC 60950-1^ <i>Response Statu</i> T.	·1".	L40	# [-49
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy Change "Electrical Isolat	so been found in following pa le 40.12.7) tion" with "Electrical isolation	ages and lines: F		found on pa SuggestedRem Insert supe Proposed Resp PROPOSE	age 41 line edy rscript to h onse D ACCEP1 C 0	9. ave: "IEC 60950-1^ <i>Response Statu</i> T.	1". Js <b>W</b>	L <b>40</b>	
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy Change "Electrical Isolat Proposed Response PROPOSED ACCEPT.	so been found in following pa le 40.12.7) tion" with "Electrical isolation	ages and lines: F		found on pa SuggestedRem Insert supe Proposed Resp PROPOSE	age 41 line recript to ha nonse D ACCEPT C <b>0</b> a, Jairo	9. ave: "IEC 60950-1^ <i>Response Statu</i> T.	1". <i>us</i> <b>W</b> P <b>39</b> urth Elektroi	L <b>40</b>	
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy Change "Electrical Isolat Proposed Response PROPOSED ACCEPT.	so been found in following pa le 40.12.7) tion" with "Electrical isolation <i>Response Status</i> <b>W</b>	ages and lines: F n". <i>L</i> 12	Page 31 Line 7 (in	found on pa SuggestedRem Insert super Proposed Resp PROPOSE CI 0 SC Bustos Heredia Comment Type Reference to	age 41 line redy rscript to ha onse D ACCEPT C 0 A, Jairo E E to IEC 609	9. ave: "IEC 60950-1^ <i>Response Statu</i> T. <i>F</i> Wu <i>Comment Statu</i> 50-1. Not sure why	P <b>39</b> urth Elektron us <b>X</b> there are st	L <b>40</b> nik eiSos till some referen	# <u> -49</u> ces to IEC 60950-1 i
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy Change "Electrical Isolat Proposed Response PROPOSED ACCEPT.	so been found in following particular technology (so been found in following particular for the second seco	ages and lines: F n". <i>L</i> 12	Page 31 Line 7 (in	found on pa SuggestedRem Insert super Proposed Resp PROPOSE C/ 0 So Bustos Heredia Comment Type Reference to the standar	age 41 line redy rscript to ha onse D ACCEPT C 0 a, Jairo E to IEC 609 d. Another	9. ave: "IEC 60950-1^ <i>Response Statu</i> T. <i>F</i> <i>Wu</i> <i>Comment Statu</i> 50-1. Not sure why reference has beer	P <b>39</b> urth Elektron us <b>X</b> there are st	L <b>40</b> nik eiSos till some referen	# <u> -49</u> ces to IEC 60950-1 i
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy Change "Electrical Isolat Proposed Response PROPOSED ACCEPT. O SC 0 Bustos Heredia, Jairo Comment Type E	so been found in following partial following partial formation with "Electrical isolation <i>Response Status</i> <b>W</b> <i>P</i> 22 Wurth Elektro	ages and lines: F n". <i>L</i> 12 onik eiSos	Page 31 Line 7 (in # <mark>I-48</mark>	found on pa SuggestedRem Insert super Proposed Resp PROPOSE C/ 0 So Bustos Heredia Comment Type Reference to the standar 33.8.3.9), p	age 41 line redy rscript to he onse D ACCEPT C 0 a, Jairo E to IEC 609 d. Another wage 111 lir	9. ave: "IEC 60950-1^ <i>Response Statu</i> T. <i>F</i> <i>Wu</i> <i>Comment Statu</i> 50-1. Not sure why reference has beer	P <b>39</b> urth Elektron us <b>X</b> there are st	L <b>40</b> nik eiSos till some referen	# <u> -49</u> ces to IEC 60950-1 i
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy Change "Electrical Isolat Proposed Response PROPOSED ACCEPT. Comment Type "Electrical" is capitalized	so been found in following particular le 40.12.7) tion" with "Electrical isolation <i>Response Status</i> <b>W</b> <i>P</i> <b>22</b> Wurth Elektro <i>Comment Status</i> <b>D</b>	ages and lines: F n". <i>L</i> 12 onik eiSos	Page 31 Line 7 (in # <mark>I-48</mark>	found on pa SuggestedRem Insert super Proposed Resp PROPOSE C/ 0 So Bustos Heredia Comment Type Reference t the standar 33.8.3.9), p SuggestedRem	age 41 line redy rscript to he onse D ACCEP1 C 0 a, Jairo E to IEC 609 d. Another wage 111 line redy	9. ave: "IEC 60950-1^ <i>Response Statu</i> T. <i>F</i> <i>Wu</i> <i>Comment Statu</i> 50-1. Not sure why reference has been he 17,	P <b>39</b> urth Elektron us <b>X</b> there are st	L <b>40</b> nik eiSos till some referen	# <u> -49</u> ces to IEC 60950-1 i
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy Change "Electrical Isolat Proposed Response PROPOSED ACCEPT. C/ 0 SC 0 Bustos Heredia, Jairo Comment Type E "Electrical" is capitalized	so been found in following particular le 40.12.7) tion" with "Electrical isolation <i>Response Status</i> <b>W</b> <i>P</i> <b>22</b> Wurth Elektro <i>Comment Status</i> <b>D</b> I. The same occurrency on p	ages and lines: F n". <i>L</i> 12 onik eiSos	Page 31 Line 7 (in # <mark>I-48</mark>	found on pa SuggestedRem Insert super Proposed Resp PROPOSE C/ 0 So Bustos Heredia Comment Type Reference to the standar 33.8.3.9), p SuggestedRem Remove ref	age 41 line hedy rscript to ha honse D ACCEPT C 0 A, Jairo E to IEC 609 d. Another hage 111 line hedy ference to	9. ave: "IEC 60950-1^ <i>Response Statu</i> T. <i>F</i> Wu <i>Comment Statu</i> 50-1. Not sure why reference has been ne 17, IEC 60950-1.	P <b>39</b> urth Elektron us <b>X</b> there are si n found on p	L <b>40</b> nik eiSos till some referen	# <u> -49</u> ces to IEC 60950-1 i
Inconsistencies have als Table 14.10.4.5.11) Page 45 Line 14 (in Tab Page 119 Line 14 SuggestedRemedy Change "Electrical Isolat Proposed Response PROPOSED ACCEPT. C/ 0 SC 0 Bustos Heredia, Jairo Comment Type E "Electrical" is capitalized SuggestedRemedy	so been found in following particular le 40.12.7) tion" with "Electrical isolation <i>Response Status</i> <b>W</b> <i>P</i> <b>22</b> Wurth Elektro <i>Comment Status</i> <b>D</b> I. The same occurrency on p	ages and lines: F n". <i>L</i> 12 onik eiSos	Page 31 Line 7 (in # <mark>I-48</mark>	found on pa SuggestedRem Insert super Proposed Resp PROPOSE C/ 0 So Bustos Heredia Comment Type Reference t the standar 33.8.3.9), p SuggestedRem	age 41 line hedy rscript to ha honse D ACCEPT C 0 A, Jairo E to IEC 609 d. Another hage 111 line hedy ference to	9. ave: "IEC 60950-1^ <i>Response Statu</i> T. <i>F</i> <i>Wu</i> <i>Comment Statu</i> 50-1. Not sure why reference has been he 17,	P <b>39</b> urth Elektron us <b>X</b> there are si n found on p	L <b>40</b> nik eiSos till some referen	# <u> -49</u> ces to IEC 60950-1 i

C/ 0 SC 0

P <b>119</b>	L18	# I-16	CI O	SC 0	P119	L <b>20</b>	# <mark>I-18</mark>
Retired, Retired/U	Jnemployed		Maytum,	Michael	Retired,Reti	red/Unemployed	
Comment Status X			Comment	Type TR	Comment Status X		
the IEC 62368-1:2018 require lation is subjected to Table 12 or 27, impulse values which, or DC voltage. IEC 62368-1:20 lination for equipment within low and tests, recommendation th	ment. Section impulse value for 230 V mai 18 totally ignor v-voltage supp at an impulse	5.4.9.1 of IEC 62368- s and the highest test ns, IEC 62368-1 tests rs the IEC 60664- oly systems - Part 1:	this v 2400 for ec tests, 2500 region	oltage level: V is not a pre uipment withi which uses 2 V is used in l' nal standards	ferred IEC voltage level - see IE n low-voltage supply systems - 500 V. IEC 62368-1:2018 also I TU-T K.20, K,21 and K.45 for E	C 60664-1:2020, Part 1: Principles, has a preferred va thernet port testing	Insulation coordination requirements and lue of 2500 V. g along with other
			Suggeste	dRemedy			
AC 2500 V peak at 50 Hz to 60	Hz" to match	IEC 62368-1	Harm	onize by char	nging to "A sequence of ten 250	0 V impulses of al	ternating polarity"
Response Status W			'	'	Response Status W		
P119	L19	# I <u>-</u> 17	CI 0	SC 0	P119	L <b>21</b>	# I-14
Retired, Retired/L	Jnemployed		Maytum,	Michael	Retired, Reti	red/Unemployed	
Comment Status X			Comment	Type TR	Comment Status X		
equirement. Section 5.4.9.1 of l o Table 12 values and the high ns is 2.5 kV peak AC or DC vol :2020, Insulation coordination f Principles, requirements and t	EC 62368-1:2 est test voltage tage. IEC 623 or equipment ests, recommo	018 states basic e from Table 25, 26 or 68-1:2018 totally within low-voltage endation that an	comb secor Note math	ination of two nd the virtual t 1 to entry: It is ematical mean	numbers, the first representing ime to half-value on the tail (T2) s written as T1/T2, both in micro ning.	the virtual front tir ) pseconds, the sign	ne (T1) and the
or DC voltages, is most approp	phale lest app	roach for coupled	00				
						to "The shape of t	he impulses is 1.2/50"
DC 2500 V" to match IEC 6236	68-1		Proposed	Response	Response Status W		
			TFTD				
	Retired,Retired/L Comment Status X to 60 Hz, applied as specified in g the IEC 62368-1:2018 require lation is subjected to Table 12 26 or 27, impulse values which, or DC voltage. IEC 62368-1:20 lination for equipment within low a and tests, recommendation the oriate test approach for coupled AC 2500 V peak at 50 Hz to 60 Response Status W P119 Retired,Retired/L Comment Status X specified in Section 5.4.9.1 of IB equirement. Section 5.4.9.1 of IB equirement. Section 5.4.9.1 of IB equirement. Section 5.4.9.1 of IB is 2.5 kV peak AC or DC vol :2020, Insulation coordination f : Principles, requirements and t or DC voltages, is most appropriate	Retired, Retired/Unemployed Comment Status X to 60 Hz, applied as specified in Section 5.4.9 the IEC 62368-1:2018 requirement. Section ulation is subjected to Table 12 impulse value 26 or 27, impulse values which, for 230 V mail or DC voltage. IEC 62368-1:2018 totally ignolination for equipment within low-voltage supplication for equipment within low-voltage supplication for equipment of the coupled transients. AC 2500 V peak at 50 Hz to 60 Hz" to match Response Status W P119 L19 Retired, Retired/Unemployed Comment Status X specified in Section 5.4.9.1 of IEC 62368-1:20 o Table 12 values and the highest test voltage is 2.5 kV peak AC or DC voltage. IEC 623 :2020, Insulation coordination for equipment : Principles, requirements and tests, recomm	Retired,Retired/Unemployed Comment Status X to 60 Hz, applied as specified in Section 5.4.9.1 of IEC 62368- the IEC 62368-1:2018 requirement. Section 5.4.9.1 of IEC 62368- the IEC 62368-1:2018 requirement. Section 5.4.9.1 of IEC 62368- to 20 coltage. IEC 62368-1:2018 totally ignors the IEC 60664- to 20 coltage. IEC 62368-1:2018 totally ignors the IEC 60664- thation for equipment within low-voltage supply systems - Part 1: and tests, recommendation that an impulse voltage, not AC or DC to and tests, recommendation that an impulse voltage, not AC or DC to and tests, recommendation that an impulse voltage, not AC or DC to and tests, recommendation that an impulse voltage, not AC or DC to and tests, recommendation that an impulse voltage. AC 2500 V peak at 50 Hz to 60 Hz" to match IEC 62368-1 Response Status W M M M M M M M M M M M M M	Retired, Retired/UnemployedMaytum, $Comment Status X$ Comment Status Xto 60 Hz, applied as specified in Section 5.4.9.1 of IEC 62368- ilation is subjected to Table 12 impulse values and the highest test 26 or 27, impulse values which, for 230 V mains, IEC 62368-1 tests or DC voltage. IEC 62368-1:2018 totally ignors the IEC 60664- sination for equipment within low-voltage supply systems - Part 1: s and tests, recommendation that an impulse voltage, not AC or DC oriate test approach for coupled transients.Suggeste HarmAC 2500 V peak at 50 Hz to 60 Hz" to match IEC 62368-1 Response Status WP119 $L$ 19 $H$ P119L19 $H$ $I$ $T$ P119L19 $H$ $I$ $T$ Retired, Retired/UnemployedC/ 0Maytum,Comment Status X specified in Section 5.4.9.1 of IEC 62368-1:2018 is not matching equirement. Section 5.4.9.1 of IEC 62368-1:2018 is not matching error no is is 2.5 kV peak AC or DC voltage. IEC 62368-1:2018 totally :2020, Insulation coordination for equipment within low-voltage erro	Retired, Retired/UnemployedMaytum, MichaelComment Status XMaytum, Michaelto 60 Hz, applied as specified in Section 5.4.9.1 of IEC 62368- ulation is subjected to Table 12 impulse values and the highest test 26 or 27, impulse values which, for 230 V mains, IEC 62368-1 tests or DC voltage. IEC 62368-1:2018 totally ignors the IEC 60664- ination for equipment within low-voltage supply systems - Part 1: a and tests, recommendation that an impulse voltage, not AC or DC oriate test approach for coupled transients.Maytum, Michael Comment View of the	Retired, Retired/Unemployed Maytum, Michael Retired, Retire	Retired, Retired/Unemployed Maytum, Michael Retired, Retired/Unemployed   Comment Status X Maytum, Michael Retired, Retired/Unemployed   List of is subjected to Table 12 impulse values and the highest tests or DC voltage. IEC 62368-11:2018 requirement. Section 5.4.9.1 of IEC 62368-1 Year Comment Status X   So DC voltage. IEC 62368-1:2018 training subply systems - Part 1: and tests, recommendation that an impulse voltage, not AC or DC oriate test approach for coupled transients. 2400 V is not a preferred IEC voltage level - see IEC 60664-1:2020, for equipment within low-voltage supply systems - Part 1: Principles, recommendation that an impulse voltage, not AC or DC oriate test approach for coupled transients. Numerical Status X   AC 2500 V peak at 50 Hz to 60 Hz" to match IEC 62368-1 Response Status W SuggestedRemedy   Harmonize by changing to "A sequence of ten 2500 V impulses of all Proposed Response Response Status W TFTD   P119 L19 # 17   Retired, Retired/Unemployed Comment Status X The IEC (see IEC 60099 series) defines the impulse designation of a combination of two numbers, the first representing the virtual front time second the virtual time to half-value on the tail (T2)   Note impulse designation of a copriment within low-voltage means and tests, recommendation that an or DC voltage, is most appropriate test approach for coupled So the impulse designation of a combination of two numbers, the first representing the virtual front time second the virtual imeaning.

C/ 0 SC 0

CIO SCO	P119	L <b>22</b>	# I-13	C/ 1	SC 1.3	P <b>23</b>	L <b>34</b>	# 1-23
/laytum, Michael	Retired, Retire	d/Unemployed		Wienckow	vski, Natalie	General Moto	ors Company	
omment Type TR	Comment Status X			Comment	Туре Е	Comment Status A		
	D of IEC 62368-1:2018." This gen			IEC 6	2368 is not found	in IEEE802.3-2018.		
	fies the use of this circuit 2 D.1 ge capacitor discharge function (ICX)			Suggeste	dRemedy			
DC mains power d	listribution systems. It is not used	for testing function	nal insulation. The			3 and all content or change th	ne editing instructi	on if an ammendment
	pecified for insulation testing in IEC ator as described in IEC 61000-4-		s the 1.2/50-8/20	to IEE	E802.3-2018 add	ded this reference.		
0	ator as described in IEC 61000-4-	5.2014 Table 2 .		Response		Response Status C		
uggestedRemedy	fined in Table 2 of IEC61000-4-5:2	2014"		ACCE	EPT IN PRINCIPL	Е.		
U U		2014		Chan	ge:			
Proposed Response	Response Status W			"Char	nge the reference	for IEC 62368-1 as follows:"		
TFTD				to: Chan	ae the reference f	for IEC 62368-1 (as inserted	by IEEE Std 802.3	3cq-2019) as follows:"
C/ 0 SC 0	P119	L <b>27</b>	# I-15	CI 8	SC 8.7.1	P24	L <b>40</b>	# 1-24
laytum, Michael	Retired, Retire	d/Unemployed			vski, Natalie	General Moto	-	# I-24
omment Type TR	Comment Status X				-	Comment Status A	ors company	
	in Annex J is the requirements of I			Comment			a draft	
	is clause says is if any of the follo I insulation is shorted. These items					nt text than that quoted in thi	s uran.	
	, clearance and creepage distance	,	1 0	00	dRemedy			
	on degree 2 and electric strength t				ge: All Physical L	ayer MDI		
0	onal insulation shall not create an	equipment safety	hazard.	Response		Poononoo Statua		
SuggestedRemedy				•	, EPT IN PRINCIPL	Response Status C		
	ect "Should insulation breakdown o oof that an electrical hazard will no			ACCI		.∟.		
	oss the isolation followed by a me					ayer MDI meeting this stand		
hazards."						ysical Layer MDI>> meeting s strikethrough text and <all i<="" td=""><td></td><td>)l&gt; is underlined</td></all>		)l> is underlined
Proposed Response	Response Status W			C/ 14	SC 14.3.1.1	č		
TFTD				-		P <b>30</b>	L10	# I-25
					vski, Natalie	General Moto	ors Company	
				Comment		Comment Status A	a draft lt baa tha	tout on modified by
				802.3 802.3		nt text than that quoted in thi	s draft. It has the	text as modified by
				Suggeste	dRemedy			
					ge editor's instruc as follows:	tion to: Change text in 14.3.	1.1 (as modified b	y IEEE Std 802.3bt-
				Response	9	Response Status C		
				ACCE	EPT.			
	quired ER/editorial required GR/c		F/tashniash F/aditation	(general		C/ 14		Page 5 of 10

SORT ORDER: Clause, Subclause, page, line

CI 27 SC 27.5.1	P <b>37</b>	L11	# I-26	C/ 38 SC 38.7.1	P <b>42</b>	L12	# I-29
Vienckowski, Natalie	General Moto	ors Company		Wienckowski, Natalie	General Mot	ors Company	
Comment Type E	Comment Status A			Comment Type E	Comment Status A		
A new note is being added	d. There is no existing no	te to change.		Not all new text is unde	rlined.		
SuggestedRemedy				SuggestedRemedy			
Replace "Change" with "In		rlining as it is not	needed as the only	Underline "subject to th	is clause".		
text being shown is the tex				Response	Response Status C		
•	Response Status C			ACCEPT.			
ACCEPT.				C/ 38 SC 38.12.4.1	P <b>43</b>	L13	# <b>I-</b> 30
C/ 33 SC 33.7.1	P <b>39</b>	L <b>39</b>	# I-27	Wienckowski, Natalie		ors Company	100
Wienckowski, Natalie	General Moto	ors Company		Comment Type E	Comment Status A	ore company	
Comment Type E	Comment Status A			<b>J</b>	8.12.4.5. The title used in t	he draft is for 38.7	12.4.5.
Not all new text is underlin	ied.			SuggestedRemedy			
SuggestedRemedy				Change 38.12.4.1 to 38	3.12.4.5.		
Underline "the general saf	ety requirements as spec	ified in J.2 or"		Response	Response Status <b>C</b>		
Response	Response Status C			ACCEPT IN PRINCIPL			
ACCEPT.							
CI 33 SC 33.8.3.4	P <b>40</b>	L10	# 1-28	Change 38.12.4.1 to 38	3.12.4.5 in title and editors in	nstruction.	
Wienckowski, Natalie	General Moto	ors Company		C/ 40 SC 40.12.7	P <b>45</b>	L <b>8</b>	# I-31
,	Comment Status A			Wienckowski, Natalie	General Mot	ors Company	
Editor's note needs to incl	ude instruction to renumb	er the remaining i	tems in the table.	Comment Type E	Comment Status A		
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Update editor's instruction	to add "and renumber ite	ms EL6 through I	EL19 to EL3 through	SuggestedRemedy			
EL13.			U U		ion to add "and renumber ite	ems PME6 throug	h PME64 to PME3
Response	Response Status <b>C</b>			through PME61.	<b>D</b>		
ACCEPT.				Response	Response Status C		
				ACCEPT.			

C/ 40 SC 40.12.7

CI 55	SC 55.5.1	P <b>52</b>	L <b>9</b>	# I-32	CI 70	SC 70.9.1	P60	L11	# <mark>I-35</mark>
Wienckows	ski, Natalie	General Moto	rs Company		Wienckowsł	ki, Natalie	General Moto	rs Company	
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CI 55	SC 55.9.1	P <b>52</b>	L <b>33</b>	# 1-33	PROPO	SED ACCEPT			
√ienckows	ski, Natalie	General Moto	rs Company		C/ 71	SC 71.9.1	P <b>61</b>	L11	# I-36
Comment T		Comment Status A			Wienckowsł	ki, Natalie	General Moto	rs Company	
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CI 55	SC 55.12.6	P <b>53</b>	L <b>7</b>	# I-34	Proposed R	esponse	Response Status W		
Vienckows	ski, Natalie	General Moto	rs Company		PROPO	SED ACCEPT	Г.		
Comment T		Comment Status A			CI 72	SC 72.9.1	P63	L11	# 1-37
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uggested	-				Comment T	,	Comment Status <b>D</b>	ie company	
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					Proposed R	esponse	Response Status W		
						SED ACCEPT			

C/ 72 SC 72.9.1

		L17	# 1-41				_		# 1-39
C/ 83A SC 83A.6.	.1 P122	L17	# 1-41	C/ 93	SC 93.10.1		P <b>77</b>	L11	# 1-39
Wienckowski, Natalie	General Moto	ors Company		Wienckows	ki, Natalie		General Moto	ors Company	
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CI 83B SC 83B.4.	.1 P124	L17	# [-42	C/ 94	SC 94.5.1		P <b>79</b>	L11	# <u>I-40</u>
Wienckowski, Natalie	General Moto	ors Company		Wienckows	ki, Natalie		General Moto	ors Company	
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requirements".	-	·	•	require	ments".				
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C/ 138 SC 138

C/ 139	SC 139	P105	L1	# 1-7	C/ Annex J SC ex J		P119	L16	# I-44
Anslow, Pe	eter	Self			Wiese, James		ADTRAN Inc.		
Comment T	Туре Е	Comment Status A			Comment Type T	Commen	nt Status X		
		ded by IEEE Std 802.3cd-2018. h changed the title of the clause		modified by IEEE Std				802d3cr_Jim_W	/iese_suggested_chang
Suggested	Remedy				e.pdf attached ***				
		05 change "Clause 139 was ad Ided by IEEE Std 802.3cd-2018			Please see attache	d document <ie< td=""><td>EE_P802d3cr_J</td><td>im_Wiese_com</td><td>ment.pdf&gt; for rationale.</td></ie<>	EE_P802d3cr_J	im_Wiese_com	ment.pdf> for rationale.
		itle of Clause 139 and the titles			SuggestedRemedy				
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Response	<b>-T</b>	Response Status C			Proposed Response	Response	e Status W		
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C/ 140	SC 140	P <b>107</b>	L1	# I-8					
Anslow, Pe	eter	Self							
	51	Comment Status A ded by IEEE Std 802.3cd-2018.	Clause 140 was	s modified by IEEE Std					
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C/ Annex J SC ex J



Comment Type TR Comment Status X

How to handle voltage limiters has never been clearly defined, even back in the IEC 60950-1 days. Yet the approach is obvious to experienced engineers.

Many Ethernet port designs use a voltage limiting function (component) to prevent voltage transients (impulse) from causing the insulation breakdown. Technically the conduction of voltage limiting function is not insulation breakdown, but it will try to mitigate the specified AC, DC and impulse voltages appearing at the Ethernet port. IEC 62368-1 has two approaches when the external circuit port is fitted with voltage limiting. 5.4.9.1 Test procedure for type testing of solid insulation states "Components providing a DC path in parallel with the insulation to be tested, such as discharge resistors for filter capacitors and voltage limiting devices, may be disconnected." Please note "May" not "Shall". For impulse testing, the Table 28 notes explains some more " Surge suppressors may be

removed, provided that such devices pass the impulse test of 5.4.10.2.2 when tested as components outside the equipment." and "During this test, it is allowed for a (fitted) surge suppressor to operate and for a sparkover to occur in a GDT."

For AC and DC testing no source impedance is specified (unlimited current) so voltage limiters must be removed to avoid destroying them. For impulse testing the voltage limiting function may be left in place as this is its intended purpose (mitigate transient voltage).

### SuggestedRemedy

#### Add the following text

"Voltage limiters intended to prevent Ethernet port insulation breakdown shall be removed for AC and DC voltage testing if their limiting voltage is less than the specified AC or DC test voltages applied. For impulse testing, voltage limiters may be left in place to perform their intended function. If removed for impulse testing, the voltage limiter shall pass the impulse test when separately tested."

Proposed Response Response Status W

TFTD

C/ J1 SC J1