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			APP	LICATION	N FOR EXTENS	ION OF E	SCC Q	UALIFICATION	APPROVAL		Page	1
E	SCC	c	omponent T	Title: F	RELAY, ELEC	TROMAC	SNET	IC, LATCHING	, Type EL 21	5	Appl. N	lo
	E	Executive Member: CNES				Date: 09/10/2024				167L		
Components (includ	ing series and fam	nilies) s	ubmitted for	Extensio	n of Qualification	n Approva	l:					1
ESCC COMPONENT NO.	VARIANTS	6	RANGE OF COMPONENTS			1	BASED ON		TEST CO		OMPONEN SIMILAR	ΙΤ
3602 009	03; 04; 06; 13; 16	14;	Rated Coi	l voltage	: 12 and 28 V	Туре	EL 215		09 13 28V 09 06 12V	All vari	iants	
Component M	anufacturer	2	Loca	ation of M	anufacturing Pla	ant(s)	3			1		4
REL - STPI	REL - STPI			St Jean de la Ruelle 45140 - France					Date of original qualification approval: Date: 01/02/1990			
								Certificate Ref	No. 167			
	0000	5			8 6 E		6					7
ESCC Specifications Maintenance of qual			Deviations to LVT testing and Detail Specification used:					Qualification Extension Report reference and date:				
Generic: 3602				No ⊠ Yes □ (supply details in Box					3827 CHART F4 (f) Lot 2705322 EL215 143 E M09 F70 - 15/01/2024			
Detail(s): 3602 00	8	Deviation No 🗵	eviation from current Specifications: 3837- Rapport_VOQ EL 215 F70 Lot 2743524 – 04/10/2024									
									5000			8
Summary of procure Project Name	Testing L		suits during	LAT	alloity period in	Date cod		pplication (those t		(Delivered	d d	
Etat des ventes oct- 2022 oct-2024.xls								2022 : 55 2023 : 30 2024 : 93	7 6	50,110,10	u	
PID changes since s	tart of qualification	1		9	Current PID	Verified b	y:		L. Fontaine, CN	IES	- 3	10
None								Name of Ex	cutive Represe	entative		
Minor* ⊠					Ref No:	PID EL 2	10 EL	215				
Major* □	*Provide details in	n box:			Issue: Rev Date:	S 04/10/202	24		Date:	18	3/11/1995	
	19				Rev Date.	04/10/202	24					11
Current Manufacturin	g facilities survey	ed by:		L. Fontair	ne, CNES			on	22	/03/2024		
			_	(Nam	e of Executive F	Representa	tive)			(Date)		
Satisfactory:	Yes ⊠		No	□ Ex	plain							
Report Reference:	2024.00053 Report REL		CC Audit									

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ESCC	Component title: RELAY, ELECTROMAGNETIC, LATCHING, Type EL 215				ype EL 215	Appl. No.		
	Executive Member:	CNES			Date:	09/10/2024	1671	
			900					12
Failure Analysis, DPA, NCCS ava	ailable: Yes	□ No	\boxtimes	(Supply data)				
Ref. No's and purposes:								
		5000 B00000 79						13
The undersigned hereby certifies on behalf that the appropriate documentation has be (except as stated in box 15;) - that the repo CNES as the responsible Executive Memi	en evaluated; - that fu orts and data are avail:	II compliance to able at the ES0	o all ESC	CC requirements i cutive and therefor	is eviden re applie:	s on behalf of		
Date: 09/10/2024								
						L. 1	FONTAINE,	CNES
					(S	ignature of the Executive	Coordinator)	
Continuation of Boxes above:								14

Component title: RELAY, ELECTROMAGNETIC, LATCHING, Type EL 215

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1000				Exe	cutive I	Member: CNES	Date:	09/10/2024	167L
Non comp	pliance to ESC	CC requ	irement	s:		E =			15
No.:		Sner	ification			Paragraph	T	Non complia	nce
140		Opec	ilication			i aragrapii		Hori compila	
							1		
Additiona	I tasks require	d to ach	ieve full	complia	nce for l	ESCC qualification or rationale for acceptabil	ity of		16
noncompl	llance:								-
5	Manage Dia	:							
Executive	Manager Dis	position							17
	on Approval:	Yes	\mathbf{x}	No					
Action / R	Remarks:								
								01	
								3. W	
Date:									huat Agguranna
								hade: Head of the Prod nd Safety Department	iuct Assurance



Component Title: RELAY, ELECTROMAGNETIC, LATCHING, Type EL 215

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ANNEX 1: LIST OF TESTS DONE TO SUPPORT EXTENSION OF QUALIFICATION

Tests conducted in compliance with:

ESCC 3602 issue 4 generic specification; Chart F4 (for ESCC/QPL parts); Or PID-TFD (for ESCC/QML parts)

Tests vehicle identification/description:

ESCC 3602 009 13 28V (EL 215 143 E M09 F70) DC 23-46 ESCC 3602 009 06 12V (EL 215 127 A F70)

Detail Specification reference:

ESCC 3602 009 Issue 8

Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
1) un 1)	Thermal Shock		MIL-STD-202, Test Method 107	2416	6	0	
(Colur	Low Level Sine Vibration	×	MIL-STD-202, Test Method 204	2416	6	0	
Environmental / Mechanical Subgroup (Column 1)	Random Vibration		MIL-STD-202, Test Method 214				Only applicable to relays with Rater Resistive Load Contact current less than 5A
anical (Low Level Mechanical Shock		MIL-STD-202, Test Method 213	2416	6	0	
I / Mech	Resistance to Soldering Heat		MIL-STD-202, Test Method 210	2416	6	0	
ımental	Seal (Fine and Gross Leak)		MIL-STD-202, Test Method 112	2416	6	0	
Enviror	External Visual Inspection		ESCC Basic Specification No. 20500	2416	6	0	
dn	High Level Sine Vibration		MIL-STD-202, Test Method 204	2416	6	0	
Subgro	High Level Mechanical Shock		MIL-STD-202, Test Method 213	2416	6	0	
Environmental / Mechanical Subgroup (Column 2)	Seal (Fine and Gross Leak)	×	MIL-STD-202, Test Method 112	2416	6	0	
Mech	External Visual Inspection	×	ESCC Basic Specification No. 20500	2416	6	0	
1 dn	Low Level Life		ESCC 3602 Para. 8.11.1				Only applicable to relays with Rate Resistive Load Contact current less than 5A
Subgrounn 1)	Inductive Life		ESCC 3602 Para. 8.11.2	2416	3	0	
Endurance Subgroup 1 (Column 1)	Seal (Fine and Gross Leak)	\boxtimes	MIL-STD-202, Test Method 112	2416	3	0	
Endu	External Visual Inspection	\boxtimes	ESCC Basic Specification No. 20500	2416	3	0	



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Chart F4	Test	Tick when done	Conditions	Date Code	Tested Qty	No. of Rejects	Comments if not performed. Comments on Rejection
070	Coil Life		ESCC 3602 Para. 8.12				Coil Life and the subsequent tests shall only be performed for
Endurance Subgroup 1 (Column 2)	Seal (Fine and Gross Leak)		MIL-STD-202, Test Method 112				Qualification. They are not required for Periodic Testing except in the
End Sub (Col	External Visual Inspection		ESCC Basic Specification No. 20500				case of any significant change to the design.
dno	Intermediate Current		ESCC 3602 Para. 8.13	2416	3	0	
Endurance Subgroup 1 (Column 3)	Mechanical Life		ESCC 3602 Para. 8.14	2416	3	0	
(Colur	Seal (Fine and Gross Leak)	⊠	MIL-STD-202, Test Method 112	2416	3	0	
Endui 1	External Visual Inspection	×	ESCC Basic Specification No. 20500	2416	3	0	
Endurance Subgroup 2	Resistive Life	×	ESCC 3602 Para. 8.11.3	2416 2346	6 6	0	
	Seal (Fine and Gross Leak)	\boxtimes	MIL-STD-202, Test Method 112	2416 2346	6 6	0	
Sub	External Visual Inspection		ESCC Basic Specification No. 20500	2416 2346	6 6	0	
	Solderability	\boxtimes	MIL-STD-202, Test Method 208	2416	3	0	
ability	Overload		ESCC 3602 Para. 8.16	2416	3	0	
Assembly Capability Subgroup	Permanence of Marking		ESCC Basic Specification No. 24800				Not applicable for laser marking
Asser	Terminal Strength	⊠	MIL-STD-202, Test Method 211	2416	3	0	
	Seal (Fine and Gross Leak)	☒	MIL-STD-202, Test Method 112	2416	3	0	
s							
Additional							
4							



ENTRIES

APPLICATION FOR EXTENSION OF ESCC QUALIFICATION APPROVAL

Component title: RELAY, ELECTROMAGNETIC, LATCHING, Type EL 215

Executive Member: CNES Date: 09/10/2024

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NOTES ON THE COMPLETION OF THE APPLICATION FORM FOR ESCC QUALIFICATION EXTENSION APPROVAL

	ate: - the title of the component as given in its detail specification or the name of the series, family; - the Executive Member, ing date; - the certificate number and its sequential suffix.
(the ESCC the detail	de details given in the table; in particular there shall be listed: - the variants or range of variants; - the range of components code is recommended to indicate the values or values range, the tolerance, the voltage, etc); the designation given in specification as 'base on'; - under Test Vehicle enter either an ESCC code or the specific characteristic capable of the component tested (e.g., voltage of coil for a relay); - under component similar enter a cross if relevant.
Box 2; 3 and 4 As per QP	L entry; otherwise, an explanation of the changes must be supplied.
	the ESCC Generic and Detail specifications, including issue number and revision letter, current at the time the tests ere performed. If the specifications are different from those current on the date of the application, see Box 6.
deviations	the deviations from the Generic and Detail Specifications listed in Box 5, in particular deviations from testing. In case of this must be listed in Box 15. In case the referenced specification in Box 5 have currently a different issue and/or revision so whether the test data deviates or not from such current documents.
Box 7 Must refere	ence the report(s) supplied in support of the application.
	vide the details of procurement to the full ESCC System, documentation of all of which should already have been delivered C Executive under the terms of the relevant Generic Specification. An appropriate table has been drawn in this box.
	evolved after the Original Qualification or after the last Extension of Qualification, adequate details of such evolution shall d together with the reasons for the changes. Major changes shall be clearly marked.
	e current PID issue status, date and actual date of verification. The date of verification of the current PID should be s close as possible to the required date of extension.
practices, p	an be completed only after a physical visit to the plant to confirm that no unexplained changes occurred and that the procedures, material, etc. used in manufacturing the components are as described in the PID. This survey shall be carried rdance with the requirements of ESCC Basic Specification No. 20200 and its findings shall be recorded.
	etails of, or reference to, any Destructive Physical Analysis (DPA) and Failure Analysis reports as well as any mance(s) (NCCS) occurred during the qualification validity period, stating if established corrective action have produced results.
Box 13 Enter only Coordinate	the name of the Executive Member (i.e., CNES, DLR, ESTEC, etc.) and the signature of the responsible Executive r.
	when there is a need to expand any of the boxes from 1 through 12. Identify box affected and reference the Box 14 in t Box. Box 14 can be broken into 14a, 14b, etc. if several boxes have to be expanded.
Box 15 Fill in Table	e as requested.
	nal action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted C Executive should be listed herein or the reason(s) to accept the noncompliance.
	re Manager recommendations on the application itself, special conditions or restrictions, modifications of the QPL or QML is to the manufacturer, etc. shall be entered clearly in Box 19, signed by the representative for ESA, and dated.
Box 18 Fill in Table	as requested.
Box 19 Confidentia	Details of PID changes including those of a confidential nature, shall be provided.
	ompliance with reference to specification(s) and paragraph(s). To simplify reference in Box 16 each nonconformance quentially numbered. If relevant state 'None'.
	nal action deemed necessary by the Executive Member to bring the submitted data to a standard likely to be accepted C Executive should be listed herein or the reason(s) to accept the noncompliance.
Box 22 Additional C	Comments.