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RELAY, ELECTROMAGNETIC, NON-LATCHING, 28VDC, 25A, 3PDT

ESCC Detail Specification No. 3601/009

Issue 6 September 2024



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DOCUMENTATION CHANGE NOTICE

(Refer to https://escies.org for ESCC DCR content)

DCR No.	CHANGE DESCRIPTION
1656	Specification updated to incorporate changes per DCR.



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GENERAL

SCOPE 1.1

This specification details the ratings, physical and electrical characteristics, and test and inspection data for the component type variants and/or the range of components specified below. It supplements the requirements of, and shall be read in conjunction with, the ESCC Generic Specification listed under Applicable Documents.

1.2 APPLICABLE DOCUMENTS

The following documents form part of this specification and shall be read in conjunction with it:

(a) ESCC Generic Specification No. 3601.

TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS 1.3

For the purpose of this specification, the terms, definitions, abbreviations, symbols and units specified in ESCC Basic Specification No. 21300 shall apply.

1.4 THE ESCC COMPONENT NUMBER AND COMPONENT TYPE VARIANTS

1.4.1 The ESCC Component Number

The ESCC Component Number shall be constituted as follows:

Example: 36010090228V

Detail Specification Reference: 3601009

Component Type Variant Number: 02 (as required)

Characteristic code: Rated Coil Voltage (28Vdc): 28V (as required)

Characteristics and/or Ratings Codes 1.4.1.1

Characteristics and/or ratings to be codified as part of the ESCC Component Number shall be as follows:

(a) Rated Coil Voltage expressed by means of the following codes:

Rated Coil Voltage (Vdc)	Code
28	28V
12	12V

1.4.2 Component Type Variants and Range of Components

The component type variants and range of components applicable to this specification are as follows:

Variant Number	Case and Terminal Description (Note 1)	Rated Coil Voltage (Vdc)	Weight max (g)
02	Raised Vertical Flange Mount Solder Hook Terminals	28, 12	82
03	Raised Vertical Flange Mount Solder Pin Terminals	28, 12	82
04	Horizontal Flange Mount Solder Hook Terminals	28, 12	82
07	Horizontal Flange Mount Solder Pin Terminals	28, 12	82

NOTES:

1. See Para. 1.6.

1.5 <u>MAXIMUM RATINGS</u>

The maximum ratings shall not be exceeded at any time during use or storage.

Maximum ratings shall only be exceeded during testing to the extent specified in this specification and when stipulated in Test Methods and Procedures of the ESCC Generic Specification.

Characteristics	Symbols	Maximum Ratings	Units	Remarks
Coil Voltage Range	Vcr	26.5 to 32 11 to 14.5	Vdc	Rated Coil Voltage: 28Vdc Rated Coil Voltage: 12Vdc
Rated Resistive Load Contact Current	Icr	25	А	28Vdc resistive Note 1
Rated Inductive Load Contact Current	I _{CL}	12	А	28Vdc inductive Note 1
Overload Current	Ioverload	50	Α	28Vdc resistive
Operating Temperature Range	Тор	-65 to +125	°C	Tamb
Storage Temperature Range	T_{stg}	-65 to +125	°C	T _{amb}
Soldering Temperature	T _{sol}	+260	°C	Note 2

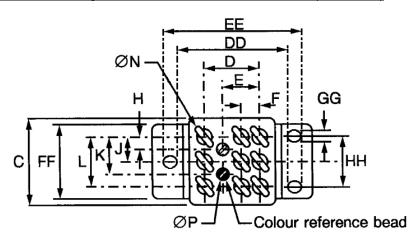
NOTES:

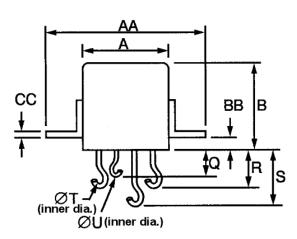
- 1. Relays should not be used in change-over mode where the potential difference between stationary contacts is greater than 10V and the switched current is greater than 100mA.
- 2. Duration 10 seconds maximum at a distance not less than 3mm from the device body. The same terminal shall not be resoldered until 3 minutes have elapsed.



1.6 PHYSICAL DIMENSIONS AND TERMINAL IDENTIFICATION

1.6.1 Raised Vertical Flange Mount and Solder Hook Terminals (Variant 02)





Symbols	Dimensions (mm)	
	Min	Max
Α	-	26
В	-	25.7
С	-	26
D	15.8	16.2
Е	10.8	11.2
F	5.7	6.1
Н	3.7	3.9
J	7.4	7.8
K	11.2	11.6

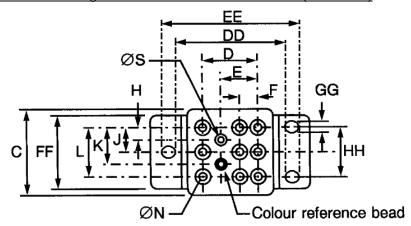
Symbols	Dimensions (mm)	
	Min	Max
L	15	15.4
ØN	2.3	2.45
ØP	0.95	1.1
Q	7.1	8.1
R	9	10
S	15.4	16.4
ØT	2.3	2.45
ØU	0.95	1.1
AA	-	43.6

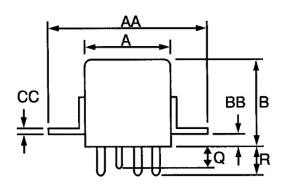
Symbols	Dimensions	
	(m	m)
	Min	Max
BB	3.8	4.2
CC	0.9	1.1
DD	31.15	32.15
EE	40	41
FF	-	24
GG	3.55	4.05
НН	15.65	16.15

NOTES:



1.6.2 Raised Vertical Flange Mount and Solder Pin Terminals (Variant 03)





Symbols	Dimensions (mm)	
	Min	Max
Α	-	26
В	-	25.7
С	-	26
D	15.8	16.2
Е	10.8	11.2
F	5.7	6.1
Н	3.7	3.9
J	7.4	7.8

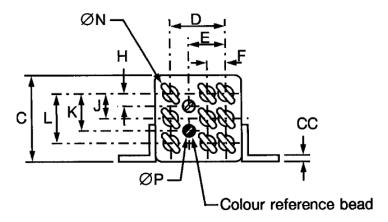
Symbols	Dimensions (mm)	
	Min	Max
K	11.2	11.6
L	15	15.4
ØN	2.3	2.41
Q	6.1	6.6
R	6.6	7.1
ØS	1.55	1.63
AA	-	43.6
BB	3.8	4.2

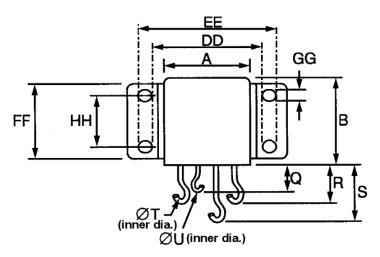
Symbols	Dimensions (mm)	
	Min Max	
CC	0.9	1.1
DD	31.15	32.15
EE	40	41
FF	-	24
GG	3.55	4.05
НН	15.65	16.15

NOTES:



1.6.3 <u>Horizontal Flange Mount and Solder Hook Terminals (Variant 04)</u>





Symbols	Dimensions (mm)	
	Min	Max
Α	-	26
В	-	25.7
С	-	26
D	15.8	16.2
Е	10.8	11.2
F	5.7	6.1
Н	3.7	3.9
J	7.4	7.8

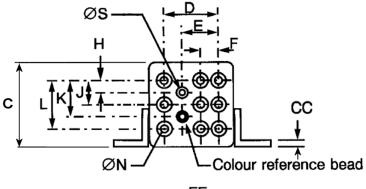
Symbols	Dimensions (mm)		
	Min	Max	
K	11.2	11.6	
L	15	15.4	
ØN	2.3	2.45	
ØP	0.95	1.1	
Q	7.1	8.1	
R	9	10	
S	15.4	16.4	
ØT	2.3	2.45	

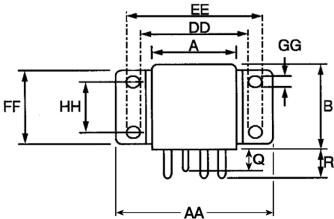
Symbols		nsions m)	
	Min	Max	
ØU	0.95	1.1	
AA	-	43.6	
CC	0.9	1.1	
DD	31.15	32.15	
EE	40	41	
FF	-	24	
GG	3.55	4.05	
HH	15.65	16.15	

NOTES:



1.6.4 Horizontal Flange Mount and Solder Pin Terminals (Variant 07)





Symbols	Dimensions (mm)		
	Min	Max	
	IVIIIII	IVIAX	
Α	ı	26	
В	ı	25.7	
С	ı	26	
D	15.8	16.2	
E	10.8	11.2	
F	5.7	6.1	
Н	3.7	3.9	

Symbols	Dimensions (mm)		
	Min	Max	
J	7.4	7.8	
K	11.2	11.6	
L	15	15.4	
ØN	2.3	2.41	
Q	6.1	6.6	
R	6.6	7.1	
ØS	1.55	1.63	

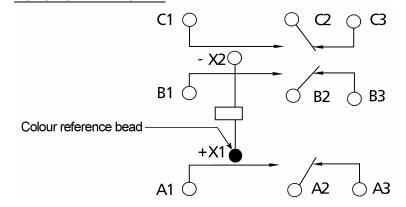
Symbols	Dimensions (mm)		
	Min Max		
AA	-	43.6	
CC	0.9	1.1	
DD	31.15	32.15	
EE	40	41	
FF	-	24	
GG	3.55	4.05	
HH	15.65	16.15	

NOTES:



1.7

FUNCTIONAL DIAGRAM



NOTES:

- 1. As viewed from the terminal side with coil de-energised.
- 2. Individual terminal designations are for reference purposes only.

1.8 MATERIALS AND FINISHES

1.8.1 Case

Copper nickel, hermetically sealed. Tin-lead alloy plating may be used.

1.8.2 Terminals

The lead material and finish shall by type H3, H4 or H19 in accordance with the requirements of ESCC Basic Specification No. 23500.

2 **REQUIREMENTS**

2.1 GENERAL

The complete requirements for procurement of the components specified herein are as stated in this specification and the ESCC Generic Specification. Permitted deviations from the Generic Specification, applicable to this specification only, are listed below.

Permitted deviations from the Generic Specification and this Detail Specification, formally agreed with specific Manufacturers on the basis that the alternative requirements are equivalent to the ESCC requirement and do not affect the component's reliability, are listed in the appendices attached to this specification.

2.1.1 <u>Deviations from the Generic Specification</u>

2.1.1.1 Deviations from Qualification and Periodic Tests - Chart F4

- (a) Inductive Life: Number of Cycles of Operation shall be 10000 minimum.
- (b) Resistive Life: Number of Cycles of Operation shall be 50000 minimum.

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2.2 MARKING

The marking shall be in accordance with the requirements of ESCC Basic Specification No. 21700 and as follows.

The information to be marked on the component shall be:

- (a) The ESCC qualified components symbol (for ESCC qualified components only).
- (b) The ESCC Component Number (see Para. 1.4.1).
- (c) Traceability information.

2.3 TERMINAL STRENGTH

The terminals of all Variants are defined as rigid.

The test conditions for Terminal Strength, tested as specified in the ESCC Generic Specification, shall be as follows:

- (a) Pull Test : Applied Force:
 - 50N for > 1.2mm diameter terminals
 - 25N for < 1.2mm diameter terminals

2.4 <u>ELECTRICAL MEASUREMENTS AT ROOM, HIGH AND LOW TEMPERATURES</u>

Electrical measurements shall be performed at room, high and low temperatures.

2.4.1 Room Temperature Electrical Measurements

The measurements shall be performed at T_{amb} = +22 ±3°C.

Characteristics	Symbols	Test Method and Rated C		Lin	nits	Units
		Conditions	(Vdc)	Min	Max	
Pick-up Voltage	Uc	ESCC No. 3601	28 12		13.5 6.5	V
Drop-out Voltage	U _D	ESCC No. 3601	28 12	2.3 0.75	5.5 3.3	V
Operate Time	t⊨	ESCC No. 3601	All	-	15	ms
Release Time	t _D	ESCC No. 3601	All	-	15	ms
Bounce Time	t _B	ESCC No. 3601	All	-	1	ms
Insulation Resistance	Rı	ESCC No. 3601 V _{TEST} = 500Vdc	All	100	-	ΜΩ
Voltage Proof	VP	ESCC No. 3601	All	1250	-	Vrms
(Test Voltage)		Maximum Leakage Current I _{LVP} = 1mA		1000 (Note 1)	-	
Voltage Proof Leakage Current	I _{LVP}	ESCC No. 3601 Note 2	All	-	1	mA
Contact Voltage Drop	V _D	ESCC No. 3601 100mA ≤ I _{TEST} ≤ 25A	All	-	0.006 x I _{TEST}	V



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Characteristics	Symbols	Test Method and Conditions	Rated Coil	Lin	nits	Units
		Conditions	Voltage (Vdc)	Min	Max	
Coil Resistance	Rв	ESCC No. 3601	28 12	260 63	320 77	Ω

NOTES:

- 1. Between coil and case, between open contacts
- 2. Measured during Voltage Proof test.

2.4.2 <u>High and Low Temperatures Electrical Measurements</u>

Characteristics	Symbols	Test Method and Conditions	Rated Coil Voltage	Lin	nits	Units
		Conditions	(Vdc)	Min	Max	
Pick-up Voltage	Uc	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C	28 12	-	19.8 9.9	V
Drop-out Voltage	U _D	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C	28 12	1.5 0.5	7 4.5	V
Operate Time	t _E	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C	All	-	15	ms
Release Time	t _D	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C	All	1	15	ms
Bounce Time	t _B	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C	All	-	1	ms
Insulation Resistance	Rı	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C V _{TEST} = 500Vdc	All	50	-	МΩ
Contact Voltage Drop	V _D	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C 100mA ≤ I _{TEST} ≤ 25A	All	-	0.006 x I _{TEST}	V

2.5 PARAMETER DRIFT VALUES

Parameter Drift Values shall be measured as specified in the ESCC Generic Specification.

Unless otherwise specified, the measurements shall be performed at T_{amb} = +22 ±3°C.

The test methods and test conditions shall be as per the corresponding test defined in Para. 2.4.1 Room Temperature Electrical Measurements.

The corresponding absolute limit values for each characteristic shall not be exceeded.

Characteristics	Symbols		Limits		Units
		Drift Value	Absolute		
		Δ	Min	Max	
Pick-up Voltage	Uc	Note 1	Note 2	Note 2	V
Drop-out Voltage	U _D	Note 1	Note 2	Note 2	V

NOTES:

- 1. Drift Value (Δ) limits are not specified. Drift Values shall be recorded for information purposes only.
- 2. The limit specified in Para. 2.4.1 shall apply.

2.6 <u>INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS</u>

Unless otherwise specified, the measurements shall be performed at T_{amb} = +22 ±3°C.

Unless otherwise specified the test methods and test conditions shall be as per the corresponding test defined in Para. 2.4.1 Room Temperature Electrical Measurements.

Test Reference per	Characteristics	Symbols	Lin	nits	Units
ESCC No. 3601	(Note 1)		Min	Max	
Thermal Shock	During 5th Cycle				
	Pick-up Voltage	Uc	Not	e 2	V
	Drop-out Voltage	U _D	Not	te 2	V
	Operate Time	t⊨	Not	te 2	ms
	Release Time	t _D	Not	te 2	ms
	Final Measurements				
	Voltage Proof	VP	Not	te 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Not	te 3	mA





Test Reference per	Characteristics	Symbols	Lin	nits	Units
ESCC No. 3601	(Note 1)		Min	Max	
Low Level Sine	Final Measurements				
Vibration	Pick-up Voltage	Uc	No	te 3	V
	Pick-up Voltage Drift	ΔUc/Uc	No	te 1	%
	Drop-out Voltage	U _D	No	te 3	V
	Drop-out Voltage Drift	$\Delta U_D/U_D$	No	te 1	%
High Level Sine	Final Measurements				
Vibration	Pick-up Voltage	Uc	No	te 3	V
	Pick-up Voltage Drift	ΔUc/Uc	No	te 1	%
	Drop-out Voltage	U _D	No	te 3	V
	Drop-out Voltage Drift	$\Delta U_D/U_D$	No	te 1	%
Low Level	Final Measurements				
Mechanical Shock	Contact Voltage Drop	V _D	No	te 3	V
	Pick-up Voltage	Uc	Note 3		V
	Pick-up Voltage Drift	ΔUc/Uc	No	te 1	%
	Drop-out Voltage	U_D	No	te 3	V
	Drop-out Voltage Drift	$\Delta U_D/U_D$	No	te 1	%
	Voltage Proof	VP	No	te 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	No	te 3	mA
High Level	Final Measurements				
Mechanical Shock	Contact Voltage Drop	V _D	No	te 3	V
	Pick-up Voltage	Uc	No	te 3	V
	Pick-up Voltage Drift	∆Uc/Uc	No	te 1	%
	Drop-out Voltage	U _D	No	te 3	V
	Drop-out Voltage Drift	$\Delta U_D/U_D$	No	te 1	%
	Voltage Proof	VP	No	te 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	No	te 3	mA
Resistance to	Final Measurements				
Soldering Heat	Insulation Resistance	Rı	No	te 3	МΩ
	Contact Voltage Drop	V _D	No	te 3	mV
	Pick-up Voltage	Uc	No	te 3	V
	Drop-out Voltage	U _D	No	te 3	V
	Coil Resistance	R _B	No	te 3	Ω

Note 3

 $R_{\text{\tiny B}}$

Ω





Test Reference per	Characteristics	Symbols	Lin	nits	Units
ESCC No. 3601	(Note 1)		Min	Max	
Inductive Life	During Monitoring			•	
	Contact Voltage Drop	V _D	-	2.8	V
	Final Measurements				
	Contact Voltage Drop	V _D	-	0.007 x I _{TEST}	V
	Insulation Resistance	Rı	50	-	МΩ
	Voltage Proof	VP	1000	-	Vrms
	Voltage Proof Leakage Current	I _{LVP}	No	te 3	mA
	Pick-up Voltage	Uc	No	te 3	V
	Pick-up Voltage Drift	ΔUc/Uc	No	te 1	%
	Drop-out Voltage	U _D	No	te 3	V
	Drop-out Voltage Drift	$\Delta U_D/U_D$	No	te 1	%
	Operate Time	t⊨	No	te 3	ms
	Release Time	t₀	No	te 3	ms
	Bounce Time	t _B	Note 3		ms
	Coil Resistance	R _B	No	te 3	Ω
Resistive Life	During Monitoring				
	Contact Voltage Drop	V_D	-	2.8	V
	Final Measurements			I	
	Contact Voltage Drop	V _D	-	0.007 x I _{TEST}	V
	Insulation Resistance	Rı	50	-	МΩ
	Voltage Proof	VP	1000	-	Vrms
	Voltage Proof Leakage Current	I _{LVP}	No	te 3	mA
	Pick-up Voltage	Uc	No	te 3	V
	Pick-up Voltage Drift	ΔUc/Uc	No	te 1	%
	Drop-out Voltage	U _D	No	te 3	V
	Drop-out Voltage Drift	ΔU _D /U _D	No	te 1	%
	Operate Time	t _E	No	te 3	ms
	Release Time	t _D	No	te 3	ms
	Bounce Time	t _B	No	te 3	ms
	1	1			1

Coil Resistance





Test Reference per	Characteristics (Note 1)	Symbols	Limits		Units
ESCC No. 3601			Min	Max	
Coil Life	During Step 1 of each Cycle				
	Contact Voltage Drop	V _D	Note 3 Note 3		V
	Coil Resistance	R _B			Ω
	During Step 3 of 1st Cycle				
	Contact Voltage Drop	V _D	Note 2		V
	Operate Time	t⊨	Note 2		ms
	Release Time	t _D	Note 2		ms
	During Steps 4 & 5 of 4th Cycle				
	Pick-up Voltage	Uc	No	te 2	V
	Drop-out Voltage	U _D	No	te 2	V
	Final Measurements				
	Voltage Proof	VP	No	te 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	No	te 3	mA
	Insulation Resistance	Rı	Note 3		МΩ
	Contact Voltage Drop	V _D	V _D Note 3		V
	Coil Resistance	R _B	No	te 3	Ω
	Operate Time	t⊨	No	te 3	ms
	Release Time	t _D	No	te 3	ms
	Bounce Time	t _B	No	te 3	ms

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Test Reference per	Characteristics	Symbols	Limits		Units
ESCC No. 3601	(Note 1)		Min	Max	
Intermediate Current	During Monitoring				
	Contact Voltage Drop:	V _D	-	200	mV
	Final Measurements			ļ	
	Insulation Resistance	Rı	50	-	МΩ
	Voltage Proof	VP	1000	-	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Note 3		mA
	Pick-up Voltage	Uc	Note 3		V
	Pick-up Voltage Drift	ΔUc/Uc	Note 1		%
	Drop-out Voltage	U _D	Note 3		V
	Drop-out Voltage Drift	ΔU _D /U _D	Note 1		%
	Operate Time	t _E	Note 3		ms
	Release Time	t _D	No	te 3	ms
	Bounce Time	t _B	Note 3		ms
	Coil Resistance	R _B	Note 3		Ω
	Contact Voltage Drop	V _D	ı	0.007 x I _{TEST}	V
Mechanical Life	Final Measurements				
	Contact Voltage Drop	V _D	-	0.007 x I _{TEST}	V
	Pick-up Voltage	Uc	No	te 3	V
	Pick-up Voltage Drift	ΔUc/Uc	No	te 1	%
	Drop-out Voltage	U _D	Note 3		V
	Drop-out Voltage Drift	$\Delta U_D/U_D$	Note 1		%
	Operate Time	t⊨	Note 3		ms
	Release Time	t _D	Note 3		ms
	Bounce Time	t _B	Note 3		ms
	Coil Resistance	R _B	Note 3		Ω





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Test Reference per	Characteristics	Symbols	Limits		Units
ESCC No. 3601	(Note 1)		Min	Max	
Overload	During Monitoring				
	Contact Voltage Drop	V _D	-	2.8	V
	Final Measurements			I	
	Contact Voltage Drop	V _D	-	0.007 x I _{TEST}	V
	Insulation Resistance	Rı	50	-	МΩ
	Voltage Proof	VP	1000	-	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Note 3		mΑ
	Pick-up Voltage	Uc	Note 3		V
	Pick-up Voltage Drift	ΔUc/Uc	Note 1		%
	Drop-out Voltage	U _D	No	te 3	V
	Drop-out Voltage Drift	$\Delta U_D/U_D$	Note 1		%
	Operate Time	t⊨	Note 3		ms
	Release Time	t _D	Note 3		ms
	Bounce Time	t _B	Note 3		ms
	Coil Resistance	R _B	No	te 3	Ω

NOTES:

- 1. Parameter Drift shall be calculated referenced to the measurement immediately prior to the test in question. An additional initial measurement may be performed prior to the test in question if considered necessary. Drift limits are not specified. Drift Values shall be recorded for information purposes only.
- 2. The limits specified in Para. 2.4.2, as applicable to the same test temperature, shall apply.
- 3. The limits specified in Para. 2.4.1 shall apply.

2.7 RUN-IN CONDITIONS

The test conditions for Run-in, tested as specified in the ESCC Generic Specification, shall be as follows:

(a) Test Temperature: +22 ±3°C.



APPENDIX A

AGREED DEVIATIONS FOR LEACH INTERNATIONAL EUROPE (F)

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS	
Para. 1.8.2 Materials and Finishes: Terminals	Terminal material shall be Iron-Cobolt.	
Para. 2.1.1 Deviations from the	High Level Sine Vibration: Not Applicable	
Generic Specification:	High Level Mechanical Shock: Not Applicable	
Lot Validation Testing – Chart F4		



APPENDIX B AGREED DEVIATIONS FOR REL STPI (F)

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS	
Para. 2.1.1 Deviations from the	High Level Sine Vibration: Not Applicable	
Generic Specification:	High Level Mechanical Shock: Not Applicable	
Lot Validation Testing – Chart F4		