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RELAY, ELECTROMAGNETIC, LATCHING, 28VDC, 2A, 2PDT, HALF-SIZE CRYSTAL CAN

ESCC Detail Specification No. 3602/003



Josus & Droft E	August 2012
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ESCC Detail Specification No. 3602/003



ISSUE 6 Draft E

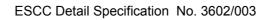
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DOCUMENTATION CHANGE NOTICE

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DCR No.	CHANGE DESCRIPTION
704	Specification updated to incorporate editorial and technical changes per DCR.
	Specification converted to MSWORD. Changes in presentation are possible.



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1 <u>GENERAL</u>

1.1 <u>SCOPE</u>

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 <u>APPLICABLE DOCUMENTS</u>

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

- (a) ESCC Generic Specification No. 3602.
- 1.3 <u>TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS</u> 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 <u>The ESCC Component Number</u> The ESCC Component Number shall be constituted as follows:

Example: 36020030126V

- Detail Specification Reference: 3602003
- Component Type Variant Number: 01 (as required)
- Characteristic code: Rated Coil Voltage (26.5Vdc): 26V (as required)

1.4.1.1 Characteristics and/or Ratings Codes

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
26.5	26V
12	12V
6	6V

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1.4.2 <u>Component Type Variants and Range of Components</u>

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

Variant	Case and Terminal Description	Rated Coil	Weight max
Number	(Note 1)	Voltage	(g)
		(Vdc)	
01	Plain Case (No Mount)	26.5, 12, 6	8.5
	Solder Pin Terminals		
02	Raised Vertical Flange Mount	26.5, 12, 6	8.5
	Solder Pin Terminals		
03	Horizontal Flange Mount	26.5, 12, 6	8.5
	Solder Hook Terminals		
04	Horizontal Flange Mount	26.5, 12, 6	8.5
	Solder Pin Terminals		
05	Plain Case (No Mount)	26.5, 12, 6	8.5
	Solder Hook Terminals		
06	Raised Vertical Flange Mount	26.5, 12, 6	8.5
	Solder Hook Terminals		
09	Plain Case (No Mount)	26.5, 12, 6	8.5
	Long Solder Pin Terminals (6.53mm)		
10	Plain Case (No Mount)	26.5, 12, 6	8.5
	Long Solder Pin Terminals (5.78mm)		

NOTES:

1. See Physical Dimensions and Terminal Identification.



1.5 MAXIMUM RATINGS

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	V _{CR}	25 to 32 11 to 15 5.5 to 7.5	Vdc	Rated Coil Voltage: 26.5Vdc Rated Coil Voltage: 12Vdc Rated Coil Voltage: 6Vdc
Rated Resistive Load Contact Current	I _{CR}	2	A	28Vdc resistive Note 1
Rated Inductive Load Contact Current	I _{CL}	400	mA	28Vdc inductive Inductance: 320mH Note 1
Overload Current	I _{OVERLOAD}	4	A	28Vdc resistive
Operating Temperature Range	T _{op}	-65 to +125	°C	T _{amb}
Storage Temperature Range	T _{stg}	-65 to +125	°C	T _{amb}
Soldering Temperature	T_{sol}	+260	°C	Note 2

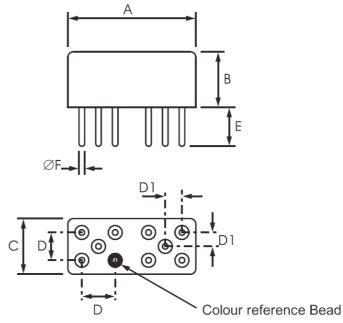
NOTES:

- 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 1.5mm from the device body. The same terminal shall not be resoldered until 3 minutes have elapsed.



1.6 PHYSICAL DIMENSIONS AND TERMINAL IDENTIFICATION

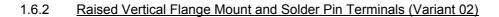
1.6.1 Plain Case (No Mount) and Solder Pin Terminals (Variant 01)

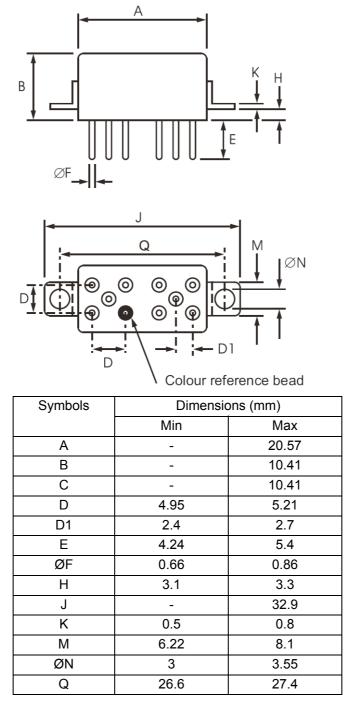


Symbols	Dimensions (mm)		
	Min	Max	
А	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.95	5.21	
D1	2.4	2.7	
E	4.24	5.4	
ØF	0.66	0.86	

NOTES:



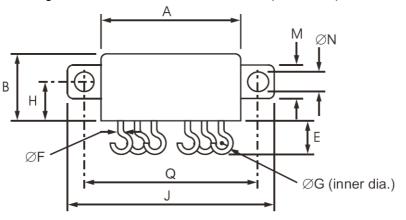


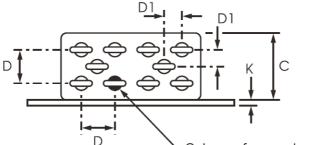


NOTES:



1.6.3 <u>Horizontal Flange Mount and Solder Hook Terminals (Variant 03)</u>





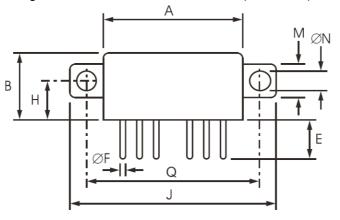
Colour reference bead

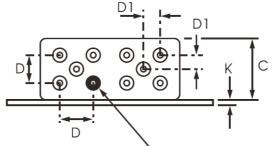
Symbols	Dimensions (mm)		
	Min	Max	
A	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.95	5.21	
D1	2.4	2.7	
E	4.11	4.83	
ØF	0.66	0.86	
ØG	-	1.8	
Н	5.97	6.73	
J	-	32.64	
К	0.38	0.9	
М	6.22	8	
ØN	3	3.55	
Q	26.8	27.2	

NOTES: 1. Terr



Horizontal Flange Mount and Solder Pin Terminals (Variant 04) 1.6.4



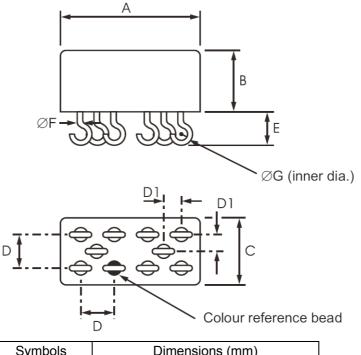


Colour reference bead

Symbols	Dimensions (mm)		
	Min	Max	
A	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.95	5.21	
D1	2.4	2.7	
E	4.24	5.4	
ØF	0.66	0.86	
Н	5.97	6.73	
J	-	32.64	
K	0.38	0.9	
М	6.22	8	
ØN	3	3.55	
Q	26.8	27.2	



1.6.5 Plain Case (No Mount) and Solder Hook Terminals (Variant 05)

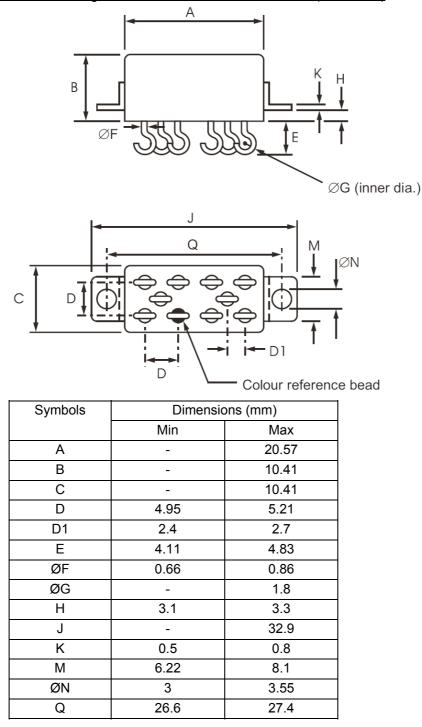


Symbols	Dimensions (mm)		
	Min	Max	
A	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.95	5.21	
D1	2.4	2.7	
E	4.11	4.83	
ØF	0.66	0.86	
ØG	-	1.8	

NOTES:



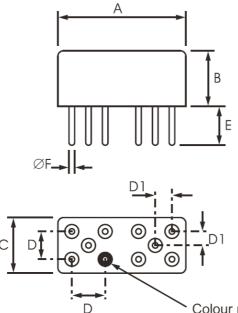
1.6.6 Raised Vertical Flange Mount and Solder Hook Terminals (Variant 06)



NOTES:



1.6.7 Plain Case (No Mount) and Long Solder Pin Terminals (Variants 09, 10)



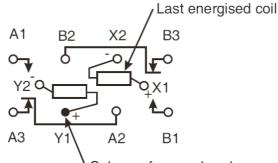
Colour reference Bead

Symbols	Dimensions (mm)		Remarks
	Min	Max	
A	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.95	5.21	
D1	2.4	2.7	
E	6.2	6.86	Variant 09
	5.46	6.1	Variant 10
ØF	0.66	0.86	

NOTES: 1. Terr



1.7 FUNCTIONAL DIAGRAM



Colour reference bead

NOTES:

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

1.8 MATERIALS AND FINISHES

1.8.1 <u>Case</u>

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

1.8.2 <u>Terminals</u>

The lead material and finish shall by type D3, D4, F3 or F4 in accordance with the requirements of ESCC Basic Specification No. 23500.

2 <u>REQUIREMENTS</u>

2.1 <u>GENERAL</u>

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> None.

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.
- (c) Traceability information.



2.3 <u>TERMINAL STRENGTH</u>

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

- (a) Pull Test
 - Applied Force: 15N
- 2.4 <u>ELECTRICAL MEASUREMENTS AT ROOM, HIGH AND LOW TEMPERATURES</u> Electrical measurements shall be performed at room, high and low temperatures. Consolidated notes are given after the tables.
- 2.4.1 <u>Room Temperature Electrical Measurements</u> The measurements shall be performed at T_{amb} = +22 ±3°C.

Characteristics			L	imits	Units	
		Conditions	Voltage (Vdc)	Min	Max	
Latch Voltage	UL	ESCC No. 3602 Note 1	26.5 12 6	8 4 2	13.5 6.8 3.2	V
Reset Voltage	U _R	ESCC No. 3602 Note 1	26.5 12 6	8 4 2	13.5 6.8 3.2	V
Latch Time	tL	ESCC No. 3602	All	-	4	ms
Reset Time	t _R	ESCC No. 3602	All	-	4	ms
Bounce Time	t _B	ESCC No. 3602	All	-	2	ms
Insulation Resistance	Rı	ESCC No. 3602 V _{TEST} = 100Vdc	All	10	-	GΩ
Voltage Proof (Test Voltage)	VP	ESCC No. 3602 Maximum Leakage	All	1000 (Note 2)	-	Vrms
		Current I _{LVP} = 1mA		500 (Note 3)	-	
Voltage Proof Leakage Current	I _{LVP}	ESCC No. 3602 Note 4	All	-	1	mA
Contact Voltage Drop	V _D	ESCC No. 3602 I _{TEST} = 100mA max	All	-	0.05 x I _{TEST}	V
Coil Resistance	R _B	ESCC No. 3602 Both Coils	26.5 12 6	810 170 45	990 210 55	Ω

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

Characteristics	Symbols	mbols Test Method and Conditions	Rated Coil	Limits		Units
		Conditions	Voltage (Vdc)	Min	Max	
Latch Voltage	UL	ESCC No. 3602 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C Note 1	26.5 12 6	- - -	18 9 4.5	V
Reset Voltage	U _R	ESCC No. 3602 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C Note 1	26.5 12 6	- - -	18 9 4.5	V
Latch Time	tL	ESCC No. 3602 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C	All	-	5	ms
Reset Time	t _R	ESCC No. 3602 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C	All	-	5	ms
Bounce Time	t _B	ESCC No. 3602 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C	All	-	2	ms
Insulation Resistance	Rı	ESCC No. 3602 T _{amb} = +125 (+0 -5)°C V _{TEST} = 100Vdc	All	100	-	MΩ
Contact Voltage Drop	V _D	ESCC No. 3602 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C I _{TEST} = 100mA max	All	-	0.05 x I _{TEST}	V

2.4.3 Notes to Electrical Measurements Tables

- 1. The coil voltage rise time shall be less than 0.1tL or 0.1tR. The coil voltage shall be maintained for a minimum duration of 10tL or 10tR.
- 2. Points of application (1000V):
 - Between terminals (except coil) and case, coil de-energised.
 - Between terminals (except coil) and case, coil energised with Rated Coil Voltage.
 - Between coil and other terminals.
 - Between switching circuits, coil de-energised.
 - Between switching circuits, coil energised with Rated Coil Voltage.
- 3. Points of application (500V):
 - Between open contacts, coil de-energised.
 - Between open contacts, coil energised with Rated Coil Voltage.
 - Between coil and case.
 - Between coils.
- 4. Measured during Voltage Proof test.



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 Room Temperature Electrical Measurements.

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

Characteristics	Symbols		Units		
		Drift Value	Absolute		
		Δ	Min	Max	
Latch Voltage	UL	Note 1	Note 2	Note 2	V
Reset Voltage	U _R	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 Room Temperature Electrical Measurements shall apply.

2.6 INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS

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 Room Temperature Electrical Measurements.

Test Reference per	Characteristics	Symbols	L	Units	
ESCC No. 3602	(Note 1)		Min	Max	
Thermal Shock	During 5th Cycle				
	Latch Voltage	U_L	Ν	lote 2	V
	Reset Voltage	U _R	Ν	lote 2	V
	Latch Time	tL	Ν	lote 2	ms
	Reset Time	t _R	Ν	lote 2	ms
	Final Measurements				
	Voltage Proof	VP	Ν	lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Ν	lote 3	mA



Test Reference per	Characteristics	Symbols	l	imits	Units
ESCC No. 3602	(Note 1)		Min	Max	
Low Level Sine	Final Measurements				
Vibration	Latch Voltage	UL	Note 3		V
	Latch Voltage Drift	$\Delta U_L/U_L$	Note 1		%
	Reset Voltage	U _R	Ν	lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	Ν	lote 1	%
Random Vibration	Final Measurements				
	Latch Voltage	UL	Ν	lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	Ν	lote 1	%
	Reset Voltage	U _R	Ν	lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	Ν	lote 1	%
High Level Sine	Final Measurements				
Vibration	Latch Voltage	UL	Ν	lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	Ν	lote 1	%
	Reset Voltage	U _R	Ν	lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	Ν	lote 1	%
Low Level Mechanical	Final Measurements				
Shock	Contact Voltage Drop	V _D	Ν	lote 3	V
	Latch Voltage	UL	Ν	lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	Ν	lote 1	%
	Reset Voltage	U _R	Ν	lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	Ν	lote 1	%
	Voltage Proof	VP	Ν	lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Ν	lote 3	mA
High Level	Final Measurements				
Mechanical Shock	Contact Voltage Drop	V _D	Ν	lote 3	V
	Latch Voltage	UL	Ν	lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	Ν	lote 1	%
	Reset Voltage	U _R	Ν	lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	٢	lote 1	%
	Voltage Proof	VP	Ν	lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Ν	lote 3	mA



Test Reference per	Characteristics	Symbols	L	imits	Units
ESCC No. 3602	(Note 1)		Min	Max	
Resistance to	Final Measurements				
Soldering Heat	Insulation Resistance	Ri	Note 3		GΩ
	Contact Voltage Drop	V _D	Note 3		V
	Latch Voltage	UL	Note 3		V
	Reset Voltage	U _R	Ν	lote 3	V
	Coil Resistance	R _B	Ν	lote 3	Ω
Low Level Life	Final Measurements				
	Contact Voltage Drop	V _D	-	0.1 x I _{test}	V
	Insulation Resistance	Ri	5000	-	MΩ
	Voltage Proof	VP	Ν	lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Ν	lote 3	mA
	Latch Voltage	UL	Ν	lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	Ν	lote 1	%
	Reset Voltage	U _R	Ν	lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	Ν	lote 1	%
	Latch Time	tL	Ν	lote 3	ms
	Reset Time	t _R	Ν	lote 3	ms
	Bounce Time	t _B	Ν	lote 3	ms
	Coil Resistance	R _B	Ν	lote 3	Ω
Resistive Life	During Monitoring				
	Contact Voltage Drop	V _D	-	2.8	V
	Final Measurements			ļ	
	Contact Voltage Drop	V _D	-	0.1 x I _{test}	V
	Insulation Resistance	R	5000	-	MΩ
	Voltage Proof	VP	Ν	lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Ν	lote 3	mA
	Latch Voltage	UL	Ν	lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	Ν	lote 1	%
	Reset Voltage	U _R	Ν	lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	Ν	lote 1	%
	Latch Time	tL	Ν	lote 3	ms
	Reset Time	t _R	Ν	lote 3	ms
	Bounce Time	t _B	Ν	lote 3	ms
	Coil Resistance	R _B	Ν	lote 3	Ω



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Test Reference per	Characteristics	Symbols	L	imits	Units
ESCC No. 3602	(Note 1)		Min	Max	
Coil Life	During Step 1 of each Cycle				
	Contact Voltage Drop	V _D	Ν	Note 3	
	Coil Resistance	R _B	N	ote 3	Ω
	During Step 3 of 1st Cycle				
	Contact Voltage Drop	V _D	Ν	ote 2	V
	Latch Time	tL	Ν	ote 2	ms
	Reset Time	t _R	N	ote 2	ms
	During Steps 4 & 5 of 4th Cycle				
	Latch Voltage	UL	Ν	ote 2	V
	Reset Voltage	U _R	Note 2		V
	Final Measurements				
	Voltage Proof	VP	N	ote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	N	ote 3	mA
	Insulation Resistance	Ri	Ν	ote 3	GΩ
	Contact Voltage Drop	V _D	Ν	ote 3	V
	Coil Resistance	R _B	Ν	ote 3	Ω
	Latch Time	tL	Ν	ote 3	ms
	Reset Time	t _R	N	ote 3	ms
	Bounce Time	t _B	Ν	ote 3	ms



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Test Reference per	Characteristics	Symbols	l	imits	Units
ESCC No. 3602	(Note 1)		Min	Max	
Intermediate Current	During Monitoring				
	Contact Voltage Drop	V _D	-	300	mV
	Final Measurements		5000	l	
	Insulation Resistance	R _I	5000	-	MΩ
	Voltage Proof	VP		lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}		lote 3	mA
	Latch Voltage	UL		lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$		lote 1	%
	Reset Voltage	U _R		lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$		lote 1	%
	Latch Time	tL		lote 3	ms
	Reset Time	t _R		lote 3	ms
	Bounce Time	t _B	Ν	lote 3	ms
	Coil Resistance	R _B	Ν	lote 3	Ω
	Contact Voltage Drop	V _D	-	0.1 x I _{test}	V
Overload	During Monitoring				
	Contact Voltage Drop	V _D	-	1.4	V
	Final Measurements				
	Contact Voltage Drop	V _D	-	0.1 x I _{test}	V
	Insulation Resistance	Ri	5000	-	MΩ
	Voltage Proof	VP	Ν	lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Ν	lote 3	mA
	Latch Voltage	UL	Ν	lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	Ν	lote 1	%
	Reset Voltage	U _R	Ν	lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	Ν	lote 1	%
	Latch Time	tL	Ν	lote 3	ms
	Reset Time	t _R	Ν	lote 3	ms
	Bounce Time	t _B	Ν	lote 3	ms
	Coil Resistance	R _B		lote 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 High and Low Temperatures Electrical Measurements, as applicable to the same test temperature, shall apply.
- 3. The limits specified in Room Temperature Electrical Measurements 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.

ESCC Detail Specification No. 3602/003



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<u>APPENDIX A</u>

AGREED DEVIATIONS FOR LEACH INTERNATIONAL EUROPE (F)

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS
Materials and Finishes: Terminals	For components specified with terminal finish type 3, the tin-lead plating shall have a composition of 85 to 95% tin (remainder lead).
Deviations from the Generic	High Level Sine Vibration: Not Applicable
Specification:	High Level Mechanical Shock: Not Applicable
Qualification and Periodic Tests (Chart F4)	Chart F4: Coil Life subgroup test sequence (under Endurance Subgroup 1):
	Coil Life and the subsequent tests shall only be performed for
	Qualification. They are not required for Periodic Testing except in the case of any significant change to the design.