

Page 1 of 22

RELAY, ELECTROMAGNETIC, LATCHING, 28VDC, 15A, 4PDT

ESCC Detail Specification No. 3602/004

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PAGE 2

ISSUE 5

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PAGE 3

DOCUMENTATION CHANGE NOTICE

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

DCR No.	CHANGE DESCRIPTION
1424	Specification updated to incorporate changes per DCR.



TABLE OF CONTENTS

1	GENERAL	5
1.1	SCOPE	5
1.2	APPLICABLE DOCUMENTS	5
1.3	TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS	5
1.4	THE ESCC COMPONENT NUMBER AND COMPONENT TYPE VARIANTS	5
1.4.1	The ESCC Component Number	5
1.4.1.1	Characteristics and/or Ratings Codes	5
1.4.2	Component Type Variants and Range of Components	6
1.5	MAXIMUM RATINGS	7
1.6	PHYSICAL DIMENSIONS AND TERMINAL IDENTIFICATION	8
1.6.1	Raised Vertical Flange Mount and Solder Pin Terminals (Variants 04, 14)	8
1.6.2	Raised Vertical Flange Mount and Solder Hook Terminals (Variants 06, 16)	9
1.6.3	Horizontal Flange Mount and Solder Hook Terminals (Variants 09, 19)	10
1.7	FUNCTIONAL DIAGRAM	11
1.8	MATERIALS AND FINISHES	11
1.8.1	Case	11
1.8.2	Terminals	11
2	REQUIREMENTS	11
2.1	GENERAL	11
2.1.1	Deviations from the Generic Specification	11
2.1.1.1	Deviations from Qualification and Periodic Tests – Chart F4	11
2.2	MARKING	12
2.3	TERMINAL STRENGTH	12
2.4	ELECTRICAL MEASUREMENTS AT ROOM, HIGH AND LOW TEMPERATURES	12
2.4.1	Room Temperature Electrical Measurements	12
2.4.2	High and Low Temperatures Electrical Measurements	13
2.4.3	Notes to Electrical Measurements Tables	13
2.5	PARAMETER DRIFT VALUES	14
2.6	INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS	14
2.7	RUN-IN CONDITIONS	20
APPENDIX	(A	21
APPENDIX	(B	22



PAGE 5

ISSUE 5

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 TERMS, DEFINITIONS, ABBREVIATIONS, SYMBOLS AND UNITS

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: 36020040428V

- Detail Specification Reference: 3602004
- Component Type Variant Number: 04 (as required)
- Characteristic code: Rated Coil Voltage (28Vdc): 28V (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
28	28V
12	12V

ESCC Detail Specification



No. 3602/004

ISSUE 5

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 Number	Case and Terminal Description (Note 1)	Rated Coil Voltage	Coil Resistance	Weight max
Number		(Vdc)	(Ω)	(g)
04	Raised Vertical Flange Mount	28	300	80
	Solder Pin Terminals	12	60	
06	Raised Vertical Flange Mount	28	300	80
	Solder Hook Terminals	12	60	
09	Horizontal Flange Mount	28	300	80
	Solder Hook Terminals	12	60	
14	Raised Vertical Flange Mount	28	450	80
	Solder Pin Terminals	12	111.5	
16	Raised Vertical Flange Mount	28	450	80
	Solder Hook Terminals	12	111.5	
19	Horizontal Flange Mount	28	450	80
	Solder Hook Terminals	12	111.5	

NOTES:

1. See Para. 1.6.



PAGE 7

No. 3602/004

ISSUE 5

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	Vcr	26.5 to 32 11 to 14.5	Vdc	Rated Coil Voltage: 28Vdc Rated Coil Voltage: 12Vdc
Rated Resistive Load Contact Current	Icr	15	A	28Vdc resistive Note 1
Rated Inductive Load Contact Current	lc∟	8	A	28Vdc inductive Note 1
Overload Current	IOVERLOAD	40	А	28Vdc resistive
Operating Temperature Range	T _{op}	-65 to +125	°C	Tamb
Storage Temperature Range	T _{stg}	-65 to +125	°C	Tamb
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 Pin Terminals (Variants 04, 14)

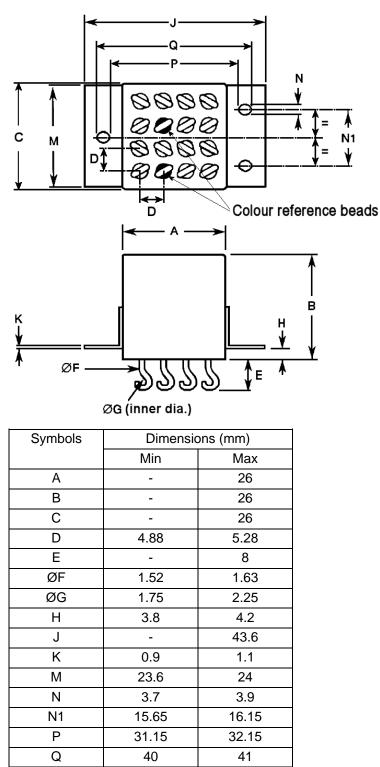
			— N ↓= ↓ ↓= ↓ hce beads
кт <u>т</u> -			
Symbols	Dimensio	ons (mm)	
	Min	Max	
A	-	26	
В	-	26	
С	-	26	
D	4.88	5.28	
E	6.7	7.1	
ØF	1.55	1.62	
Н	3.8	4.2	
J	-	43.6	
К	0.9	1.1	
М	23.6	24	
N	3.7	3.9	
N1	15.65	16.15	
Р	31.15	32.15	
Q	40	41	

NOTES:

1. Terminal identification is specified by reference to the colour reference beads. See Para. 1.7.



1.6.2 <u>Raised Vertical Flange Mount and Solder Hook Terminals (Variants 06, 16)</u>

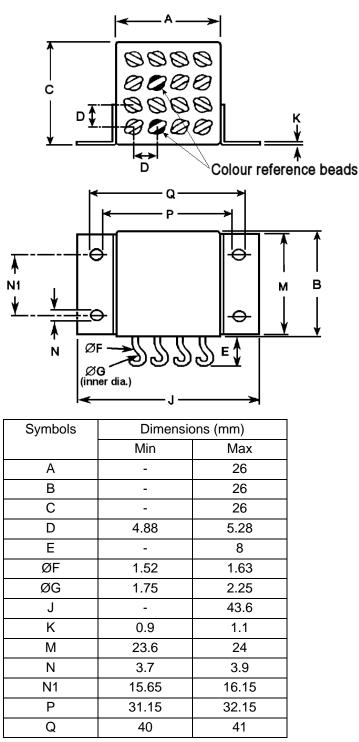


NOTES:

1. Terminal identification is specified by reference to the colour reference beads. See Para. 1.7.



1.6.3 Horizontal Flange Mount and Solder Hook Terminals (Variants 09, 19)

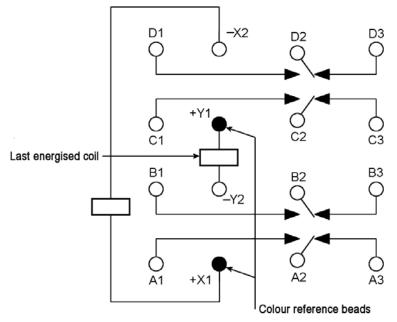


NOTES:

1. Terminal identification is specified by reference to the colour reference beads. See Para. 1.7.



1.7 FUNCTIONAL DIAGRAM



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, tin-lead alloy plated, hermetically sealed.

1.8.2 <u>Terminals</u>

The lead material and finish shall by type H3, H4 or H19 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 Deviations from the Generic Specification
- 2.1.1.1 Deviations from Qualification and Periodic Tests Chart F4
 - (a) High Level Mechanical Shock. The mechanical shock test condition peak value shall be 500g.



2.2 <u>MARKING</u>

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

2.4 ELECTRICAL MEASUREMENTS AT ROOM, HIGH AND LOW TEMPERATURES

Electrical measurements shall be performed at room, high and low temperatures. Consolidated notes are given in Para. 2.4.3.

2.4.1 <u>Room Temperature Electrical Measurements</u>

The measurements shall be performed at $T_{amb} = +22 \pm 3^{\circ}C$.

Characteristics	Symbols	Test Method and	Rated Coil	L	Limits	
		Conditions	Voltage (Vdc)	Min	Max	
Latch Voltage	U∟	ESCC No. 3602				V
		Note 1	28	8	14	
			12	3.6	6.6	
Reset Voltage	Ur	ESCC No. 3602				V
		Note 1	28	8	14	
			12	3.6	6.6	
Latch Time	t∟	ESCC No. 3602	All	-	15	ms
Reset Time	t _R	ESCC No. 3602	All	-	15	ms
Bounce Time	t _B	ESCC No. 3602	All	-	1	ms
Insulation	Ri	ESCC No. 3602	All	100	-	MΩ
Resistance		V _{TEST} = 500Vdc				
Voltage Proof	VP	ESCC No. 3602	All	1250	-	Vrms
(Test Voltage)		Maximum Leakage		1000	-	
		Current I _{LVP} = 1mA		(Note 2)		
				350	-	
				(Note 3)		
Voltage Proof	ILVP	ESCC No. 3602	All	-	1	mA
Leakage Current		Note 4				
Contact Voltage	VD	ESCC No. 3602	All	-	0.01 x Itest	V
Drop		$100mA \le I_{TEST} \le 15A$				

PAGE 12

ISSUE 5



Characteristics	Symbols	Test Method and	Rated Coil	L	Limits	
		Conditions	Voltage (Vdc)	Min	Max	
Coil Resistance	Rв	ESCC No. 3602				Ω
		Both coils				
		Variants 04, 06, 09	28	270	330	
		Variants 04, 06, 09	12	54	66	
		Variants 14, 16, 19	28	405	495	
		Variants 14, 16, 19	12	100	123	

2.4.2 High and Low Temperatures Electrical Measurements

					1 11	11.26
Characteristics	Symbols	Test Method and	Rated Coil	L	imits	Units
		Conditions	Voltage	Min	Max	
			(Vdc)			
Latch Voltage	U∟	ESCC No. 3602				V
		T _{amb} = +125 (+0 -5)°C	28	-	18	
		and -65 (+5 -0)°C	12	-	9	
		Note 1				
Reset Voltage	UR	ESCC No. 3602				V
-		T _{amb} = +125 (+0 -5)°C	28	-	18	
		and -65 (+5 -0)°C	12	-	9	
		Note 1				
Latch Time	t∟	ESCC No. 3602	All	-	15	ms
		T _{amb} = +125 (+0 -5)°C				
		and -65 (+5 -0)°C				
Reset Time	t _R	ESCC No. 3602	All	-	15	ms
		T _{amb} = +125 (+0 -5)°C				
		and -65 (+5 -0)°C				
Bounce Time	tв	ESCC No. 3602	All	-	1	ms
		T _{amb} = +125 (+0 -5)°C				
		and -65 (+5 -0)°C				
Insulation	RI	ESCC No. 3602	All	50	-	MΩ
Resistance	,	$T_{amb} = +125 (+0.5)^{\circ}C$				
		$V_{\text{TEST}} = 500 \text{Vdc}$				
Contact Voltage	VD	ESCC No. 3602	All	-	0.01 x I _{TEST}	V
Drop		$T_{amb} = +125 (+05)^{\circ}C$				-
2.00		and -65 (+5 -0)°C				
		$100 \text{mA} \le I_{\text{TEST}} \le 15 \text{A}$				
-		100m/(= 11251 = 10A	1			

2.4.3 Notes to Electrical Measurements Tables

- 1. The coil voltage rise time shall be less than $0.1t_L$ or $0.1t_R$. The coil voltage shall be maintained for a minimum duration of $10t_L$ or $10t_R$.
- 2. Between coil and case.
- 3. Between latch and reset coils.
- 4. Measured during Voltage Proof test.



PAGE 14

ISSUE 5

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		Units		
		Drift Value	Absolute		
		Δ	Min	Max	
Latch Voltage	UL	Note 1	Note 2	Note 2	V
Reset Voltage	UR	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 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 Para. 2.4.1 Room Temperature Electrical Measurements.

Test Reference per	Characteristics	Symbols	Lin	Limits	
ESCC No. 3602			Min	Max	
Thermal Shock	During 5th Cycle				
	Latch Voltage	U∟	Not	te 2	V
	Reset Voltage	UR	Not	Note 2	
	Latch Time	t∟	Not	Note 2	
	Reset Time	t _R	Note 2		ms
	Final Measurements				
	Voltage Proof	VP	Not	te 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Not	te 3	mA



Test Reference per

ISSUE 5

Units

Limits

Symbols

No.	3602/004
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Characteristics

	-		nits	Units
ESCC No. 3602		Min	Max	
Low Level Sine Final Measurements				
Vibration Latch Voltage	U∟	Not	te 3	V
Latch Voltage Drift	$\Delta U_L/U_L$	Not	te 1	%
Reset Voltage	UR	Not	te 3	V
Reset Voltage Drift	$\Delta U_R/U_R$	Not	te 1	%
High Level Sine <u>Final Measurements</u>				
Vibration Latch Voltage	U∟	Not	e 3	V
Latch Voltage Drift	$\Delta U_L/U_L$	Not	te 1	%
Reset Voltage	UR	Not	te 3	V
Reset Voltage Drift	$\Delta U_R/U_R$	Not	te 1	%
Low Level <u>Final Measurements</u>				
Mechanical Shock Contact Voltage Drop	VD	Not	te 3	V
Latch Voltage	U∟	Not	te 3	V
Latch Voltage Drift	$\Delta U_L/U_L$	Not	te 1	%
Reset Voltage	U _R	Not	te 3	V
Reset Voltage Drift	$\Delta U_R/U_R$	Not	te 1	%
Voltage Proof	VP	Not	te 3	Vrms
Voltage Proof Leakage Current	ILVP	Not	te 3	mA
High Level Final Measurements				
Mechanical Shock Contact Voltage Drop	VD	Not	e 3	V
Latch Voltage	U∟	Not	te 3	V
Latch Voltage Drift	$\Delta U_L/U_L$	Not	te 1	%
Reset Voltage	UR	Not	te 3	V
Reset Voltage Drift	$\Delta U_R/U_R$	Not	te 1	%
Voltage Proof	VP	Not	e 3	Vrms
Voltage Proof Leakage Current	ILVP	Not	te 3	mA
Resistance to Final Measurements				
Soldering Heat Insulation Resistance	R	Not	e 3	MΩ
Contact Voltage Drop	VD	Not	te 3	V
Latch Voltage	U∟	Not	te 3	V
				1
Reset Voltage	UR	Not	te 3	V



ISSUE 5

Test Reference per	Characteristics	Symbols	Lir	nits	Units
ESCC No. 3602			Min	Max	
Inductive Life	During Monitoring				
	Contact Voltage Drop	VD	-	2.8	V
	Final Measurements			I	
	Contact Voltage Drop	VD	-	0.015 x І _{теsт}	V
	Insulation Resistance	Ri	50	-	MΩ
	Voltage Proof:	VP			Vrms
	Between latch and reset coils		350	-	
	All other points		1000	-	
	Voltage Proof Leakage Current	ILVP	No	te 3	mA
	Latch Voltage	U∟	No	te 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	No	te 1	%
	Reset Voltage	UR	No	te 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	No	te 1	%
	Latch Time	t∟	No	te 3	ms
	Reset Time	t _R	No	te 3	ms
	Bounce Time	t _B	No	te 3	ms
	Coil Resistance	R _B	No	te 3	Ω



No. 3602/004	
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Reset Voltage Drift

Latch Time

Reset Time

Bounce Time

Coil Resistance

Test Reference per	Characteristics	Symbols	Lin	nits	Units
ESCC No. 3602			Min	Max	
Resistive Life	During Monitoring				
	Contact Voltage Drop	VD	-	2.8	V
	Final Measurements				
	Contact Voltage Drop	VD	-	0.015 x І _{теsт}	V
	Insulation Resistance	Rı	50	-	MΩ
	Voltage Proof:	VP			Vrms
	Between latch and reset coils		350	-	
	All other points		1000	-	
	Voltage Proof Leakage Current	ILVP	No	te 3	mA
	Latch Voltage	U∟	No	te 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	No	te 1	%
	Reset Voltage	UR	No	te 3	V

 $\Delta U_R/U_R$

t∟

t_R

tΒ

 R_B

Note 1

Note 3

Note 3

Note 3

Note 3

%

ms

ms

ms

Ω



Test Reference per	Characteristics	Symbols	Lin	nits	Units
ESCC No. 3602			Min	Max	
Coil Life	During Step 1 of each Cycle				
	Contact Voltage Drop	VD	Not	e 3	V
	Coil Resistance	R _Β	Not	e 3	Ω
	During Step 3 of 1st Cycle				
	Contact Voltage Drop	VD	Not	e 2	V
	Latch Time	t _E	Not	e 2	ms
	Reset Time	to	Not	e 2	ms
	During Steps 4 & 5 of 4th Cycle				
	Latch Voltage	U∟	Not	e 2	V
	Reset Voltage	U _R	Not	e 2	V
	Final Measurements				
	Voltage Proof	VP	Not	e 3	Vrms
	Voltage Proof Leakage Current	ILVP	Not	e 3	mA
	Insulation Resistance	Rı	Not	e 3	MΩ
	Contact Voltage Drop	VD	Not	e 3	V
	Coil Resistance	R _β	Not	ie 3	Ω
	Latch Time	t∟	Not	e 3	ms
	Reset Time	t _R	Not	ie 3	ms
	Bounce Time	t _B	Not	e 3	ms



ITEST

V

%

V

%

ms

ms

ms

Ω

Note 3

Note 1

Note 3

Note 1

Note 3

Note 3

Note 3

Note 3

 U_{L}

 $\Delta U_L/U_L$

 U_{R}

 $\Delta U_R/U_R$

t∟

t_R

tΒ

 R_B

No.	3602/004
-----	----------

Test Reference per	Characteristics	Symbols	Lin	nits	Units
ESCC No. 3602			Min	Max	
Intermediate Current	During Monitoring				
	Contact Voltage Drop:	VD			mV
	Pole 1 (15A)		-	175	
	Pole 2 (0.5A)		-	30	
	Pole 3 (0.3A)		-	18	
	Pole 4 (0.1A)		-	6	
	Final Measurements				
	Insulation Resistance	Rı	50	-	MΩ
	Voltage Proof:	VP			Vrms
	Between latch and reset coils		350	-	
	All other points		1000	-	
	Voltage Proof Leakage Current	I _{LVP}	Not	te 3	mA
	Latch Voltage	U∟	Not	te 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	Not	te 1	%
	Reset Voltage	UR	Not	te 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	Not	te 1	%
	Latch Time	t∟	Not	te 3	ms
	Reset Time	t _R	Note 3 ms		ms
	Bounce Time	tв	Not	te 3	ms
	Coil Resistance	R _B	Not	te 3	Ω
	Contact Voltage Drop	VD	-	0.015 x І _{теsт}	V
Mechanical Life	Final Measurements				
	Contact Voltage Drop	VD	-	0.015 x	V

Latch Voltage

Reset Voltage

Latch Time

Reset Time

Bounce Time

Coil Resistance

Latch Voltage Drift

Reset Voltage Drift



Test Reference per	Characteristics	Symbols	Lin	nits	Units
ESCC No. 3602			Min	Max	
Overload	During Monitoring				
	Contact Voltage Drop	VD	-	2.8	V
	Final Measurements			I	
	Contact Voltage Drop	VD	-	0.015 x І _{теsт}	V
	Insulation Resistance	Rı	50	-	MΩ
	Voltage Proof:	VP			Vrms
	Between latch and reset coils		350	-	
	All other points		1000	-	
	Voltage Proof Leakage Current	I _{LVP}	No	te 3	mA
	Latch Voltage	U∟	No	te 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	No	te 1	%
	Reset Voltage	UR	No	te 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	No	te 1	%
	Latch Time	t∟	No	te 3	ms
	Reset Time	t _R	No	te 3	ms
	Bounce Time	t _B	No	te 3	ms
	Coil Resistance	Rв	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.

ESCC Detail Specification



PAGE 21

No. 3602/004

ISSUE 5

<u>APPENDIX A</u>

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. 2.1.1.1 Deviations	High Level Sine Vibration: Not Applicable
from Qualification and Periodic Tests – Chart F4	High Level Mechanical Shock: Not Applicable
	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.

ESCC Detail Specification



PAGE 22

No. 3602/004

ISSUE 5

APPENDIX B AGREED DEVIATIONS FOR REL STPI (F)

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS
Para. 2.1.1.1 Deviations from 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.