

Page 1 of 21

RELAY, ELECTROMAGNETIC, NON-LATCHING, 28VDC, 16A, 2PDT

ESCC Detail Specification No. 3601/00

Issue A 3 December 2013 - TBD



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No. 3601/007

PAGE 2

ISSUE 4 3

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No. 3601/0**a** 1

PAGE 3

ISSUE 4 3

DOCUMENTATION CHANGE NOTICE

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

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

9



No. 3601/00/

PAGE 4

ISSUE 4 3

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	6
1.6	PHYSICAL DIMENSIONS AND TERMINAL IDENTIFICATION	7
1.6.1	Raised Vertical Flange Mount and Solder Pin Terminals with Polarizing Pin (Variant 03)	7
1.6.2	Raised Vertical Flange Mount and Solder Hook Terminals (Variant 04)	8
1.6.3	Horizontal Flange Mount and Solder Pin Terminals with Polarizing Pin (Variant 05)	9
1.6.4	Horizontal Flange Mount and Solder Hook Terminals (Variant 06)	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
2.2	MARKING	11
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
2.5	PARAMETER DRIFT VALUES	14
2.6	INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS	14
2.7	RUN-IN CONDITIONS	19
APPEND	IX A	20
APPEND	IX B	21



No. 3601/00**/**

PAGE 5

ISSUE # 3

1 GENERAL

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 APPLICABLE DOCUMENTS

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

(a) ESCC Generic Specification No. 3601.

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 The ESCC Component Number

The ESCC Component Number shall be constituted as follows:

Example: 36010070328V

36010010328U

Detail Specification Reference: 360100 / 1

Component Type Variant Number: 03 (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



No. 3601/007

PAGE 6

ISSUE 4 3

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 (Vdc)	Weight max (g)
03	Raised Vertical Flange Mount Solder Pin Terminals with Polarizing Pin	28, 12	41
04	Raised Vertical Flange Mount Solder Hook Terminals	28, 12	41
05	Horizontal Flange Mount Solder Pin Terminals with Polarizing Pin	28, 12	41
06	Horizontal Flange Mount Solder Hook Terminals	28, 12	41

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}	26.5 to 32 11 to 14.8	Vdc	Rated Coil Voltage: 28Vdc Rated Coil Voltage: 12Vdc
Rated Resistive Load Contact Current	I _{CR}	18/10	А	28Vdc resistive Note 1
Rated Inductive Load Contact Current	I _{CL}	8	А	28Vdc inductive Note 1
Overload Current	OVERLOAD	40	A	28Vdc resistive
Operating Temperature Range	T _{op}	-65 to +125	°C	T_{amb}
Storage Temperature Range	T_{stg}	-65 to +125	ပံ	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.

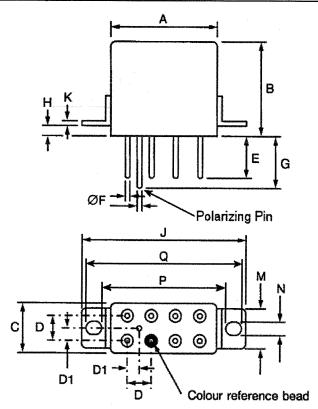


PAGE 7

ISSUE4 3

1.6 PHYSICAL DIMENSIONS AND TERMINAL IDENTIFICATION

1.6.1 Raised Vertical Flange Mount and Solder Pin Terminals with Polarizing Pin (Variant 03)

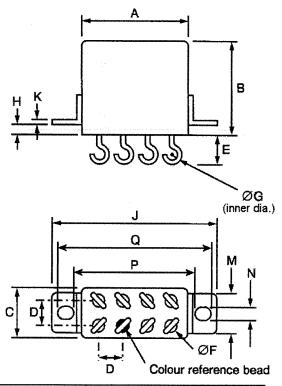


Symbols	Dimensions (mm)			
Symbols	Min	Max		
Α	-	26		
В	-	25.7		
С		13.3		
D	4.88	5.28		
D1	2.44	2.64		
E	6.7	7.1		
ØF	1.55	1.62		
G	7.4	8		
Н	3.8	4.2		
J	-	43.6		
K	0.9	1.1		
М	· -	12.3		
N	3.7	3.9		
Р	31.15	32.15		
Q	40	41		

NOTES:

Terminal identification is specified by reference to the colour reference bead and the position of the polarizing pin. See Functional Diagram.

1.6.2 Raised Vertical Flange Mount and Solder Hook Terminals (Variant 04)

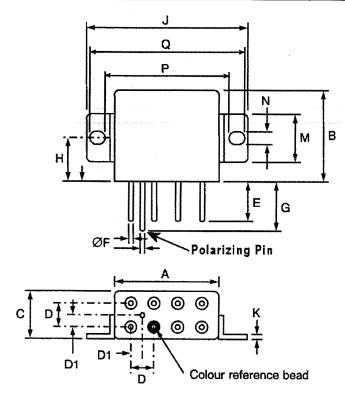


Symbolo	Dimensions (mm)			
Symbols	Min	Max		
Α	-	26		
В	-	25.7		
C	-	13.3		
D	4.88	5.28		
E	_	8		
ØF	1.52	1.62		
ØG	1.75	2.25		
Н	3.8	4.2		
J	naga:	43.6		
K	0.9	1.1		
M	<u>-</u>	12.3		
N	3.7	3.9		
Р	31.15	32.15		
Q	40	41		

NOTES:

Terminal identification is specified by reference to the colour reference bead. See Functional Diagram.

1.6.3 <u>Horizontal Flange Mount and Solder Pin Terminals with Polarizing Pin (Variant 05)</u>



Symbolo	Dimensi	Dimensions (mm)			
Symbols	Min	Max			
Α	-	26			
В	-	25.7			
С	-	13.3			
D	4.88	5.28			
D1	2.44	2.64			
Е	6.7	7.1			
ØF	1.55	1.62			
G	7.4	8			
Н	12.45	12.95			
J	-	43.6			
K	0.9	1.1			
M	grania -	12.3			
N	3.7	3.9			
Р	31.15	32.15			
Q	40	41			

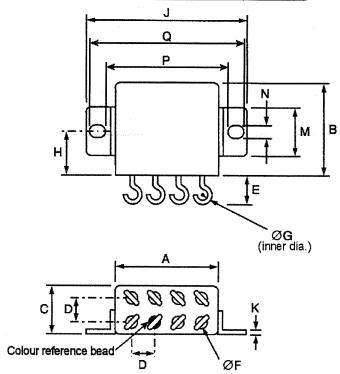
NOTES:

1. Terminal identification is specified by reference to the colour reference bead and the position of the polarizing pin. See Functional Diagram.





1.6.4 <u>Horizontal Flange Mount and Solder Hook Terminals (Variant 06)</u>



Symbols	Dimensions (mm)		
Symbols	Min	Max	
A.	-	26	
В	•	25.7	
С	-	13.3	
D	4.88	5.28	
E	-	8	
ØF	1.52	1.62	
ØG	1.75	2.25	
Н	12.45	12.95	
J	200	43.6	
K	0.9	1.1	
М		12.3	
N	3.7	3.9	
Р	31.15	32.15	
Q	40	41	

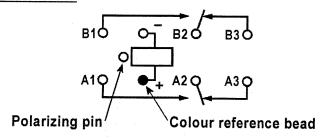
NOTES

 Terminal identification is specified by reference to the colour reference bead. See Functional Diagram.

PAGE 11

ISSUE # 3

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.
- 3. The polarizing pin is connected to the case (Variants 03, 05 only).

1.8 <u>MATERIALS AND FINISHES</u>

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 or H4 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>

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.

PAGE 12

ISSUE 4 3

2.3 TERMINAL STRENGTH

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 <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 Conditions	Rated Coil Voltage		Limits	Units
		Oorialions	(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	. <u>-</u>	15	ms
Release Time	t _D	ESCC No. 3601	All	es.	15	ms
Bounce Time	t _B	ESCC No. 3601	All	-	1	ms
Insulation Resistance	R _i	ESCC No. 3601 V _{TEST} = 500Vdc	All	100	-	МΩ
Voltage Proof (Test Voltage)	VP	VP ESCC No. 3601 Maximum Leakage	All	1250	-	Vrms
		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} ≤ 18A	All	-	0.01 x I _{TEST}	٧
Coil Resistance	R _B	ESCC No. 3601	28 12	290 <i>5</i> 2	350 64	Ω
NOTES:			*Addition	72	88	3

NOTES:

1. Between coil and case.

2. Measured during Voltage Proof test.



No. 3601/00

PAGE 13

ISSUE/4 3

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

Characteristics	Symbols	Test Method and Rated C Conditions Voltag		l	_imits	Units
			(Vdc)	Min	Max	
Pick-up Voltage	U _C	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	=0	15	ms
Release Time	t _D	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C	All	-	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	R _I	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C V _{TEST} = 500Vdc	All	50	<u>.</u>	МΩ
Contact Voltage Drop	V _D	ESCC No. 3601 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C 100mA ≤ I _{TEST} ≤ 15A	All	-	9.91 x I _{TEST}	V

No. 3601/00/ A

PAGE 14

ISSUE # 3

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

NOTES:

- 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 <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 Room Temperature Electrical Measurements.

Test Reference per	Characteristics	Symbols	Limits		Units
ESCC No. 3601	34		Min	Max	
Thermal Shock	During 5th Cycle				
	Pick-up Voltage	Uc	Not	e 2	v
	Drop-out Voltage	U _D	Not	e 2	V
	Operate Time	t _∈	Not	e 2	ms
	Release Time	t _D	Not	e 2	ms
	Final Measurements				
	Voltage Proof	VP	Not	e 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Not	e 3	mA

Test Reference per	Characteristics	Symbols	Limits		Units
ESCC No. 3601	·		Min	Max	
Low Level Sine	Final Measurements				
Vibration	Pick-up Voltage	Uc	Not	te 3	V
	Pick-up Voltage Drift	ΔU _C /U _C	Not	te 1	%
	Drop-out Voltage	U _D .	Not	te 3	V
	Drop-out Voltage Drift	ΔU _D /U _D	Not	e 1	%
High Level Sine	Final Measurements				
Vibration	Pick-up Voltage	Uc	Not	e 3	V
	Pick-up Voltage Drift	ΔU _C /U _C	Not	e 1	%
	Drop-out Voltage	U _D	Not	e 3	V
	Drop-out Voltage Drift	ΔU _D /U _D	Not	e 1	%
Low Level	Final Measurements				
Mechanical Shock	Contact Voltage Drop	V _D	Not	e 3	V
	Pick-up Voltage	U _C	Not	e 3	V
	Pick-up Voltage Drift	ΔU _C /U _C	Not	e 1	%
	Drop-out Voltage	U _D	Not	e 3	٧
	Drop-out Voltage Drift	$\Delta U_D/U_D$	Not	e 1	%
	Voltage Proof	VP	Not	e 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Not	e 3	mΑ
High Level	Final Measurements				
Mechanical Shock	Contact Voltage Drop	V _D	Note	e 3	V
	Pick-up Voltage	Uc	Note	e 3	V
	Pick-up Voltage Drift	ΔU _c /U _c	Note	e 1	%
	Drop-out Voltage	U _D	Note	э 3	V
	Drop-out Voltage Drift	∆U _D /U _D	Note	e 1	%
	Voltage Proof	VP	Note	e 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Note	e 3	mA
Resistance to	Final Measurements				
Soldering Heat	Insulation Resistance	R _I	Note	e 3	МΩ
	Contact Voltage Drop	V _D	Note	e 3	V
	Pick-up Voltage	U _C	Note	3	V
	Drop-out Voltage	U _D	Note	3	V
	Coil Resistance	R _B	Note	3	Ω



No. 3601/007

PAGE 16

ISSUE 4 3

Test Reference per	Characteristics	Symbols	Limits		Units
ESCC No. 3601			Min	Max	
Inductive Life	During Monitoring				
	Contact Voltage Drop	V _D		2.8	V
	Final Measurements			0,0175	
	Contact Voltage Drop	V _D		0.015 х І _{теят}	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	ΔU _C /U _C	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	t _D	No	te 3	ms
	Bounce Time	t _B	No	te 3	ms
	Coil Resistance	R _B	No	te 3	Ω
Resistive Life	During Monitoring				
	Contact Voltage Drop	V _D	600	2.8	V
	Final Measurements			0,0175	
	Contact Voltage Drop	V _D	-	0 .015 x	V
	Insulation Resistance	R _i	50	-1231	МΩ
	Voltage Proof	VP	1000	-	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Not	e 3	mA
	Pick-up Voltage	Uc	Not	e 3	V
	Pick-up Voltage Drift	ΔU _C /U _C	Not	e 1	%
	Drop-out Voltage	U _D	Not	e 3	V
	Drop-out Voltage Drift	$\Delta U_D/U_D$	Not	e 1	%
	Operate Time	t∈	Not	e 3	ms
	Release Time	t _D	Not	e 3	ms
	Bounce Time	t _B	Not	e 3	ms
	Coil Resistance	R _B	Not	e 3	Ω



PAGE 17

No. 3601/007 1 ISSUE & 3

Test Reference per	Characteristics	Symbols	Lir	nits	Units
ESCC No. 3601			Min	Max	
Coil Life	During Step 1 of each Cycle				
	Contact Voltage Drop	V _D	No	te 3	V
	Coil Resistance	R _B	No	te 3	Ω
	During Step 3 of 1st Cycle				
	Contact Voltage Drop	V _D	No	te 2	V
	Operate Time	t _∈	No	te 2	ms
	Release Time	t _D	No	te 2	ms
	During Steps 4 & 5 of 4th Cycle				
	Pick-up Voltage	Uc	Not	te 2	V
	Drop-out Voltage	U _D	Not	e 2	V
	Final Measurements				
	Voltage Proof	VP	Not	e 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Note 3		mA
	Insulation Resistance	Rı	Note 3		МΩ
	Contact Voltage Drop	V _D	Not	e 3	V
	Coil Resistance	R _B	Not	e 3	Ω
	Operate Time	t _∈	Not	e 3	ms
	Release Time	t _D	Not	e 3	ms
	Bounce Time	t _B	Not	e 3	ms



No. 3601/007

PAGE 18

ISSUE43

Test Reference per	Characteristics	Symbols	Lir	nits	Units
ESCC No. 3601			Min	Max	
Intermediate Current	During Monitoring				
	Contact Voltage Drop:	V _D			mV
	Pole 1; Group 1, 2, 3 (15A)		-	175	
	Pole 2; Group 1 (0.5A)		-	30	
	Pole 2; Group 2 (0.3A)			. 18	
	Pole 2; Group 3 (0.1A)		un.	6	
	Final Measurements			ı	
	Insulation Resistance	Ri	50	-	ΜΩ
	Voltage Proof	VP	1000	-	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Not	te 3	mA
	Pick-up Voltage	U _C	Not	te 3	V
	Pick-up Voltage Drift	ΔU _C /U _C	Not	te 1	%
	Drop-out Voltage	U _D	Not	e 3	V
	Drop-out Voltage Drift	$\Delta U_D/U_D$	Not	e 1	%
	Operate Time	t _∈	Not	e 3	ms
	Release Time	t _D	Not	e 3	ms
	Bounce Time	t _B	Not	e 3	ms
	Coil Resistance	R _B	Not	e 3	Ω
	Contact Voltage Drop	V _D	-	Ö <i>ol</i> 15 0.015 x I _{TEST}	V
Mechanical Life	Final Measurements			0,0175	
	Contact Voltage Drop	V _D	-	-0.015 х І _{теят}	V
	Pick-up Voltage	Uc	Not		٧
	Pick-up Voltage Drift	ΔU _c /U _c	Not	e 1	%
	Drop-out Voltage	U _D	Not	e 3	v
	Drop-out Voltage Drift	$\Delta U_D/U_D$	Not	e 1	%
	Operate Time	t _∈	Not	e 3	ms
	Release Time	t _D	Not	e 3	ms
	Bounce Time	t _B	Not	e 3	ms
	Coil Resistance	R _B	Note	e 3	Ω



No. 3601/007

PAGE 19

ISSUE 4 3

Test Reference per	Characteristics	Symbols	Lin	nits	Units
ESCC No. 3601			Min	Max	
Overload	During Monitoring				
	Contact Voltage Drop	V _D	-	2.8	V
	Final Measurements			goras	
	Contact Voltage Drop	V _D	-	0.015• х І _{тевт}	V
	Insulation Resistance	R _i	50	-	МΩ
	Voltage Proof	VP	1000	-	Vrms
	Voltage Proof Leakage Current	I _{LVP}	Not	te 3	mA
	Pick-up Voltage	Uc	Not	te 3	V
	Pick-up Voltage Drift	ΔU _C /U _C	Not	te 1	%
	Drop-out Voltage	U _D	Not	te 3	٧
	Drop-out Voltage Drift	ΔU _D /U _D	Not	te 1	%
	Operate Time	t _E	Not	te 3	ms
	Release Time	t _D	Not	e 3	ms
	Bounce Time	t _B	Not	e 3	ms
	Coil Resistance	R _B	Not	e 3	Ω

NOTES

- 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.



No. 3601/007 1

PAGE 20

ISSUE 4 3

APPENDIX A AGREED DEVIATIONS FOR LEACH INTERNATIONAL EUROPE (F)

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS
Materials and Finishes: Terminals	Terminal material shall be Iron-Cobolt. 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 Specification:	High Level Sine Vibration: Not Applicable
	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.





No. 3601/007/ (

PAGE 21

ISSUE & 3

APPENDIX B AGREED DEVIATIONS FOR REL STPI (F)

ITEMS AFFECTED	DESCRIPTION OF DEVIATIONS
Deviations from the Generic Specification: 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.