

Page 1 of 22

RELAY, ELECTROMAGNETIC, LATCHING, 50VDC, 2A, 2PDT, HALF-SIZE CRYSTAL CAN

BASED ON TYPE GP250

ESCC Detail Specification No. 3602/010

Issue 7 July 2020



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ISSUE 7

DOCUMENTATION CHANGE NOTICE

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DCR No.	CHANGE DESCRIPTION
1341	Specification updated to incorporate changes per DCR.



ESCC Detail Specification

PAGE 4

No. 3602/010

ISSUE 7

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	Plain Case (No Mount) and Solder Pin Terminals (Variant 01)	7
1.6.2	Raised Vertical Flange Mount and Solder Pin Terminals (Variant 02)	8
1.6.3	Horizontal Flange Mount and Solder Hook Terminals (Variant 03)	9
1.6.4	Horizontal Flange Mount and Solder Pin Terminals (Variant 04)	10
1.6.5	Plain Case (No Mount) and Solder Hook Terminals (Variant 05)	11
1.6.6	Raised Vertical Flange Mount and Solder Hook Terminals (Variant 06)	12
1.7	FUNCTIONAL DIAGRAM	13
1.8	MATERIALS AND FINISHES	13
1.8.1	Case	13
1.8.2	Terminals	13
2	REQUIREMENTS	13
2.1	GENERAL	13
2.1.1	Deviations from the Generic Specification	13
2.2	MARKING	13
2.3	TERMINAL STRENGTH	14
2.4	ELECTRICAL MEASUREMENTS AT ROOM, HIGH AND LOW TEMPERATURES	14
2.4.1	Room Temperature Electrical Measurements	14
2.4.2	High and Low Temperatures Electrical Measurements	15
2.4.3	Notes to Electrical Measurements Tables	15
2.5	PARAMETER DRIFT VALUES	16
2.6	INTERMEDIATE AND END-POINT ELECTRICAL MEASUREMENTS	16
2.7	RUN-IN CONDITIONS	21
APPEND	IX A	22



1 GENERAL

1.1 SCOPE

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 The ESCC Component Number

The ESCC Component Number shall be constituted as follows:

Example: 36020100126V

Detail Specification Reference: 3602010

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



ISSUE 7

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
Number	(Note 1)	Voltage	max
		(Vdc)	(g)
01	Plain Case (No Mount)	26.5, 12	8.1
	Solder Pin Terminals		
02	Raised Vertical Flange Mount	26.5, 12	8.8
	Solder Pin Terminals		
03	Horizontal Flange Mount	26.5, 12	10
	Solder Hook Terminals		
04	Horizontal Flange Mount	26.5, 12	9.7
	Solder Pin Terminals		
05	Plain Case (No Mount)	26.5, 12	8.4
	Solder Hook Terminals		
06	Raised Vertical Flange Mount	26.5, 12	9.1
	Solder Hook Terminals		

NOTES:

1. See Para. 1.6.

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 14.8	Vdc	Rated Coil Voltage: 26.5Vdc Rated Coil Voltage: 12Vdc
Rated Resistive Load Contact Current	I _{CR}	2	Α	50Vdc resistive Note 1
Rated Inductive Load Contact Current	IcL	400	mA	28Vdc inductive Inductance: 320mH Note 1
Overload Current	I _{OVERLOAD}	4	Α	50Vdc resistive
Operating Temperature Range	Тор	-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

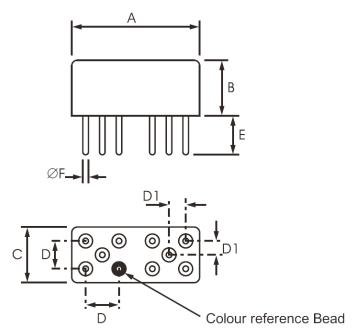
NOTES:

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



1.6 PHYSICAL DIMENSIONS AND TERMINAL IDENTIFICATION

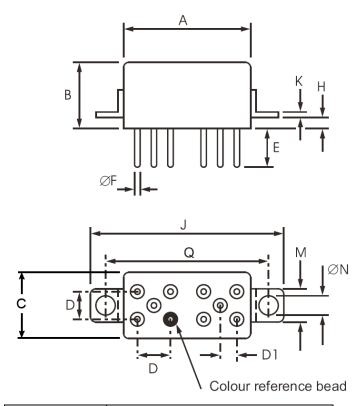
1.6.1 Plain Case (No Mount) and Solder Pin Terminals (Variant 01)



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	



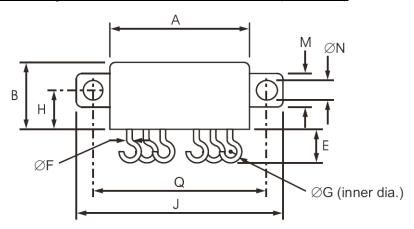
Raised Vertical Flange Mount and Solder Pin Terminals (Variant 02) 1.6.2

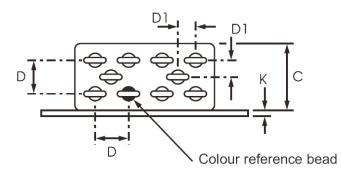


Symbols	Dimensions (mm)		
	Min	Max	
А	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.95	5.21	
D1	2.4	2.7	
E	4.24	5.4	
ØF	0.66	0.86	
Н	3.1	3.3	
J	-	32.9	
K	0.5	0.8	
М	6.22	8.1	
ØN	3	3.55	
Q	26.6	27.4	



Horizontal Flange Mount and Solder Hook Terminals (Variant 03) 1.6.3

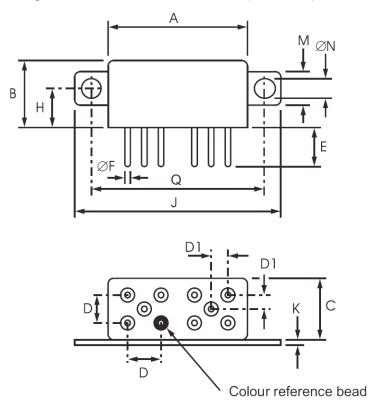




Symbols	Dimensions (mm)		
	Min	Max	
Α	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.95	5.21	
D1	2.4	2.7	
E	4.11	4.83	
ØF	0.66	0.86	
ØG	-	1.8	
Н	5.97	6.73	
J	-	32.64	
K	0.38	0.9	
М	6.22	8.1	
ØN	3	3.55	
Q	26.8	27.2	



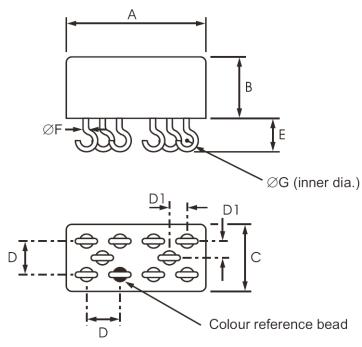
Horizontal Flange Mount and Solder Pin Terminals (Variant 04) 1.6.4



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	
Н	5.97	6.73	
J	-	32.64	
K	0.38	0.9	
М	6.22	8.1	
ØN	3	3.55	
Q	26.8	27.2	



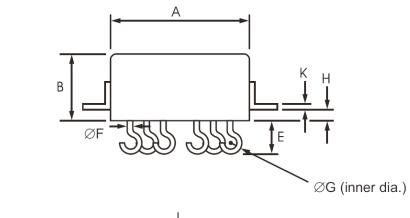
Plain Case (No Mount) and Solder Hook Terminals (Variant 05) 1.6.5

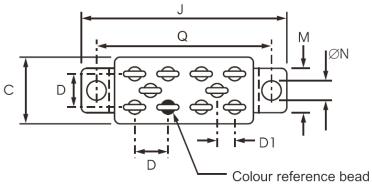


Symbols	Dimensions (mm)		
	Min	Max	
Α	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.95	5.21	
D1	2.4	2.7	
E	4.11	4.83	
ØF	0.66	0.86	
ØG	-	1.8	



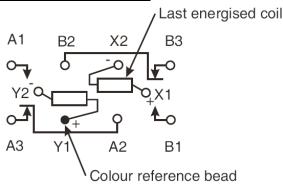
Raised Vertical Flange Mount and Solder Hook Terminals (Variant 06) 1.6.6





Symbols	Dimensions (mm)		
	Min	Max	
Α	-	20.57	
В	-	10.41	
С	-	10.41	
D	4.95	5.21	
D1	2.4	2.7	
Е	4.11	4.83	
ØF	0.66	0.86	
ØG	-	1.8	
Н	3.1	3.3	
J	-	32.9	
K	0.5	0.8	
М	6.22	8.1	
ØN	3	3.55	
Q	26.6	27.4	

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 Case

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

1.8.2 Terminals

The lead material and finish shall by type D3, D4, D19, F3, F4 or F19 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 (Para. 1.4.1).
- (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 in Para. 2.4.3.

2.4.1 Room Temperature Electrical Measurements

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

Characteristics			L	imits	Units	
		Conditions	Voltage (Vdc)	Min	Max	
Latch Voltage	UL	ESCC No. 3602 Note 1	26.5 12	7.5 3.5	13.5 6.8	V
Reset Voltage	U _R	ESCC No. 3602v Note 1	26.5 12	7.5 3.5	13.5 6.8	V
Latch Time	t∟	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	Rв	ESCC No. 3602 Both Coils	26.5 12	648 135	792 165	Ω



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

Characteristics	Symbols	· I	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	-	18 9.8	V
Reset Voltage	UR	ESCC No. 3602 T _{amb} = +125 (+0 -5)°C and -65 (+5 -0)°C Note 1	26.5 12	-	18 9.8	V
Latch Time	t∟	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	tв	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	-	ΜΩ
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 <u>Notes to Electrical Measurements Tables</u>

- 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. 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.

ISSUE 7



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 $T_{amb} = +22 \pm 3$ °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	Abso	olute	
		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 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 $T_{amb} = +22 \pm 3$ °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	L	imits	Units
ESCC No. 3602	(Note 1)		Min	Max	
Thermal Shock	During 5th Cycle				
	Latch Voltage	U_L	N	lote 2	V
	Reset Voltage	U_{R}	N	lote 2	V
	Latch Time	t∟	N	lote 2	ms
	Reset Time	t _R	Note 2		ms
	Final Measurements				
	Voltage Proof	VP	N	lote 3	Vrms
	Voltage Proof Leakage Current	I_{LVP}	N	lote 3	mA





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





ISSUE 7

Test Reference per	Characteristics	Symbols	Limits		Units
ESCC No. 3602	(Note 1)		Min	Max	
Resistance to	Final Measurements				
Soldering Heat	Insulation Resistance	Rı	N	lote 3	GΩ
	Contact Voltage Drop	V _D	N	lote 3	V
	Latch Voltage	U∟	N	lote 3	V
	Reset Voltage	U _R	N	lote 3	V
	Coil Resistance	R _B	N	lote 3	Ω
Low Level Life	Final Measurements				
	Contact Voltage Drop	V_D	-	0.1 x I _{TEST}	V
	Insulation Resistance	Rı	5000	-	МΩ
	Voltage Proof	VP	N	lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	N	lote 3	mA
	Latch Voltage	U∟	N	lote 3	V
	Latch Voltage Drift	∆U∟/U∟	N	lote 1	%
	Reset Voltage	UR	N	lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	N	lote 1	%
	Latch Time	t∟	N	lote 3	ms
	Reset Time	t _R	N	lote 3	ms
	Bounce Time	t _B	N	lote 3	ms
	Coil Resistance	R _B	N	lote 3	Ω
Resistive Life	During Monitoring				
	Contact Voltage Drop	V _D	-	2.8	V
	Final Measurements			l	
	Contact Voltage Drop	V _D	-	0.1 x I _{те} т	V
	Insulation Resistance	Rı	5000	-	МΩ
	Voltage Proof	VP	N	lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	N	lote 3	mA
	Latch Voltage	UL	N	lote 3	V
	Latch Voltage Drift	ΔUL/UL	N	lote 1	%
	Reset Voltage	UR	N	lote 3	V
	Reset Voltage Drift	ΔU _R /U _R	N	lote 1	%
	Latch Time	t∟	N	lote 3	ms
	Reset Time	t _R	N	lote 3	ms
	Bounce Time	t _B	N	lote 3	ms
	Coil Resistance	R _B	N	lote 3	Ω

ISSUE 7

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





ISSUE 7

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 Managements				
	Final Measurements		5000		
	Insulation Resistance	R _I	5000	-	ΜΩ
	Voltage Proof	VP		lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}		lote 3	mA
	Latch Voltage	U∟		lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$		lote 1	%
	Reset Voltage	U_R		lote 3	V
	Reset Voltage Drift	$\Delta U_R/U_R$	١	lote 1	%
	Latch Time	t∟	١	lote 3	ms
	Reset Time	t _R	N	lote 3	ms
	Bounce Time	t _B	N	lote 3	ms
	Coil Resistance	Rв	N	lote 3	Ω
	Contact Voltage Drop	V_D	1	0.1 x I _{TEST}	V
Overload	During Monitoring				
	Contact Voltage Drop	V_D	-	1.4	V
	E: 1M				
	Final Measurements			1	
	Contact Voltage Drop	V_D	-	0.1 x ITEST	V
	Insulation Resistance	Rı	5000	-	ΜΩ
	Voltage Proof	VP		lote 3	Vrms
	Voltage Proof Leakage Current	I _{LVP}	N	lote 3	mA
	Latch Voltage	U∟	N	lote 3	V
	Latch Voltage Drift	$\Delta U_L/U_L$	١	lote 1	%
	Reset Voltage	U _R	N	lote 3	V
	Reset Voltage Drift	ΔU _R /U _R	N	lote 1	%
	Latch Time	t∟	N	lote 3	ms
	Reset Time	t _R	١	lote 3	ms
	Bounce Time	tв	N	lote 3	ms
	Coil Resistance	R _B	١	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 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. 2.1.1 Deviations from the Generic Specification:	Chart F4: Coil Life subgroup test sequence (under Endurance Subgroup 1):
Qualification and Periodic Tests (Chart F4)	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.