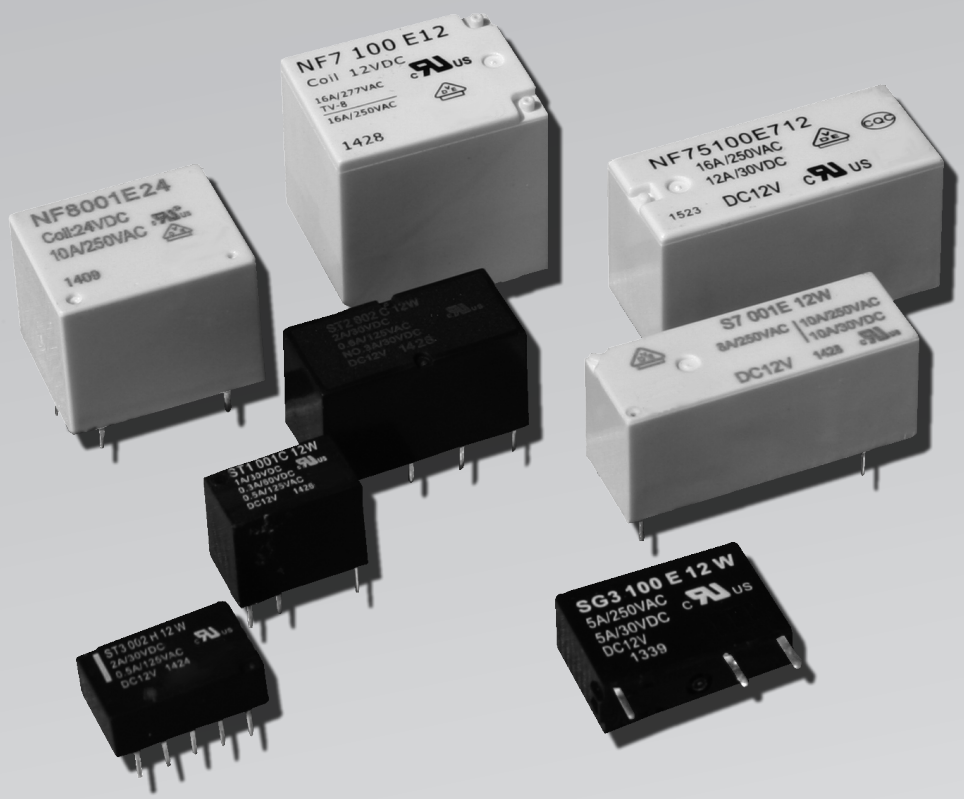

Relay Catalog

NF Forward Relay Catalog

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NF108

Features

- Low profile PCB automotive relay.
- High rating 20A/14VDC.
- General purpose application for motor

Ordering Information

NF108	001	T	E	12	S	XXXX
1	2	3	4	5	6	7

1. NF108 -- Relay Series
2. 100U -- 1U (Single Relay only)
   001 -- 1C
3. Blank -- Single
   T -- Twin
4. E -- Contact Material Ag alloy
5. 12 -- 12VDC Coil Voltage
   24 -- 24VDC Coil Voltage
6. Blank -- Flux tight
   S -- Sealed washable
7. XXX -- Letters and/or numbers for special customer design

Contact Data

Type of contact		Single or Twin Contact
Configuration		1CO / 1U / 2x1CO
Contact rating	1C-Form	20A / 15A, 14VDC
	1U-Form	2 x 10A, 14VDC
Max. switching power		280W
Max. switching voltage		16VDC (max.20A)
Contact Resistance		≤100 mΩ
Contact material		Ag alloy

Coil rating (DC @+23°C)

U_N (VDC) Rated	R (Ω) ± 10%	Pull-in Voltage U_{PI} (VDC)	Drop-out voltage U_{DO} (VDC)	Coil power P_{coil} (W)
12	210	7.3 / 9.0 (at 80°C)	0.9	0.69
24	840	14.6 / 18.1 (at 80°C)	1.8	

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

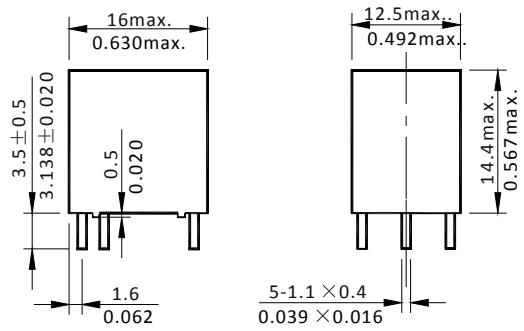
All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

NF108

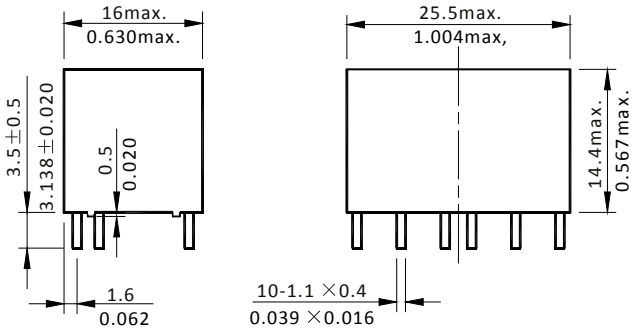
Specification

Mechanical life (frequency 18000 oper. / h)		10^7 Oper.
Electrical life (frequency 360 oper. / h)		10^5 Oper.
Operating time / Release time		≤10ms / ≤5ms
Insulation Resistance		100MΩMin (at 500VDC)
Dielectric strength contacts/ coil		500 VAC_{rms}
Dielectric strength open contacts		500 VAC_{rms}
Ambient temperature (no freezing)		-40°C...+105°C
Vibration resistance		10 ~ 55Hz; double amplitude 1.5mm
Shock resistance		100m/s^2 11ms
Dimensions	NF108 Single	16.0 x 12.5 x 14.4
	NF108 Twin	16.0 x 25.5 x 14.4
Weight	NF108 Single	approx. 5.5g
	NF108 Twin	approx. 11g

Dimension (Bottom view)

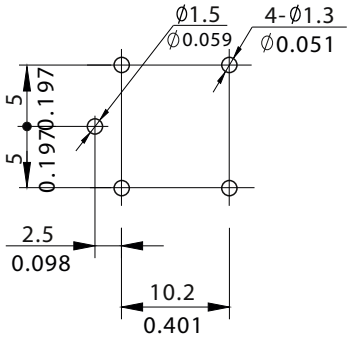


NF108 Single

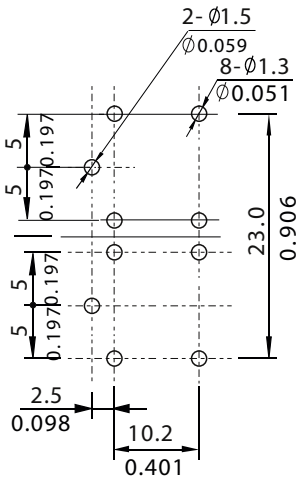


NF108 Twin

Mounting (Bottom view)



NF108 Single



NF108 Twin

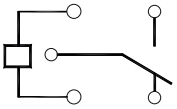
Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

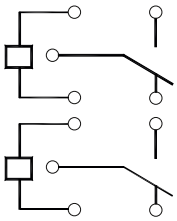
NF108

Wiring Diagram

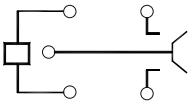
Bottom View



1C



2x1C



1U

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NF123H

Features

- · Compact size miniature PCB relays.
- · High rating 20A with maximum switching current up to 30A.
- · Extended temperature range up to 105°C.
- · For automotive system, e.g. Power windows, Auto door lock, Powersunroof, Memory seat, Wiper, Defogger, etc.

Ordering Information

NF123H	100	E	12	S	XXXX
1	2	3	4	5	6

1. NF123H -- Relay Series, 30A Version
2. 100 -- 1A
   001 -- 1C
3. E -- Contact Material Ag alloy
4. 12 -- 12VDC
   24 -- 24VDC
5. Blank -- Flux tight
   S -- Sealed washable
6. XXXX -- Letters and/or numbers for special customer design

Contact Data

Type of contact		Single Contact
Configuration		1NO / 1CO
Contact rating	1A-Form	30A, 14VDC
	1C-Form	NO: 30A, 14VDC; NC 25A, 14VDC
Max. switching power		420W
Max. switching voltage		24VDC (max.30A)
Max. carrying current	NO	30A for 2min @20°C, 30A for 1h @20°C, 35A for 2min @85°C, 25A for 1h @85°C
Contact voltage drop		≤30mV (at 10A)
Contact material		Ag alloy

Coil rating (DC @+23°C)

U_N (VDC)		R (Ω) ± 10%	Pull-in Voltage U_{PI} (VDC)	Drop-out voltage U_{DO} (VDC)	Coil power P_{coil} (W)
Rated	Max.				
12	14.4	254	6.9	1.5	0.57
24	28.8	1010	13.8	3	

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

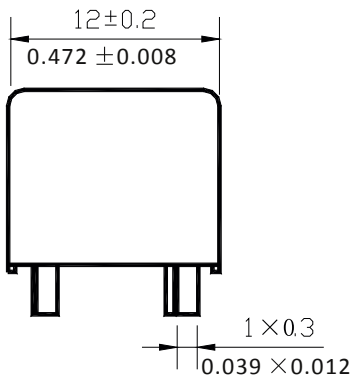
All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

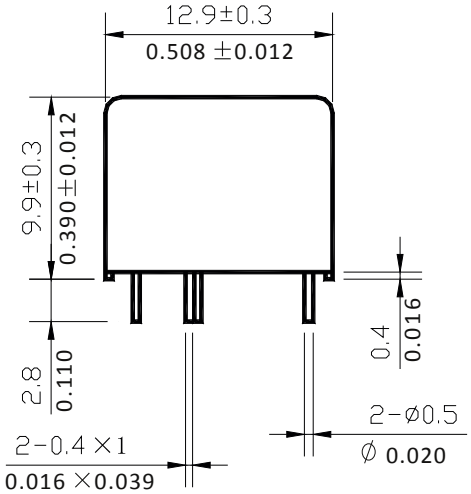
NF123H

Specification

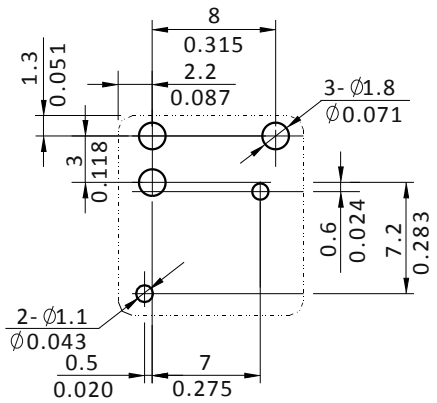
Mechanical life (frequency 18000 oper. / h)	10^7 Oper.
Electrical life (frequency 360 oper. / h)	10^5 Oper.
Operating time / Release time	≤4ms / ≤1.5ms
Insulation Resistance	100MΩ Min (at 500VDC)
Dielectric strength contacts/ coil	500 VAC_{rms}
Dielectric strength open contacts	500 VAC_{rms}
Ambient temperature (nofreezing)	-40°C...+105°C
Vibration resistance	10 ~ 55Hz; double amlitude 1.27mm 60m/s²
Shock resistance	300m/s² 6ms
Dimensions	12x12.9x12.7
Weight	approx. 4g

Dimension (Bottom view)





Mounting (Bottom view)



Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

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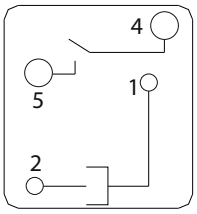
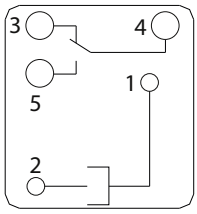
NF123H

Wiring Diagram

Bottom View



1A



1C

Disclaimer

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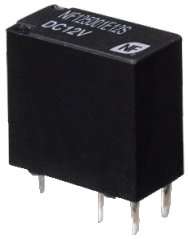
NF125

Features



- Smallest and slim type PCB Automotive relay.
- Switching capacity up to 25A motor lock load.
- High Temperature withstand up to 105°C.
- Single or twin relays are both available.
- Fully sealed construction

Ordering Information

NF125	001	T	E	12	S	XXXX
1	2	3	4	5	6	7

1. NF125 -- Standard Version
   NF125S -- Sensitive Coil
2. 001 -- 1C
3. Blank -- Single
   T -- Twin
4. E -- Ag alloy
5. 12 -- 12VDC
6. S -- Sealed washable
7. XXXX -- Letters and/or numbers for special customer design

Contact Data

Type of contact	Single/Twin Contact
Configuration	1C / 2x1C
Contact rating	25A motor lock (14VDC)
Max. switching power	480W
Max. switching voltage	16VDC (max.30A)
Contact voltage drop	≤250mV (at 10A)
Contact material	Ag alloy

Coil rating (DC @+23°C)

	U_N(VDC) Rated	R (Ω) ± 10%	Pull-in Voltage U_{PI}(VDC)	Drop-out voltage U_{DO}(VDC)	Coil power P_{coil} (W)
Standard	12	225	7.2	1.0	0.64
Sensitive	12	180	6.5	1.0	0.8

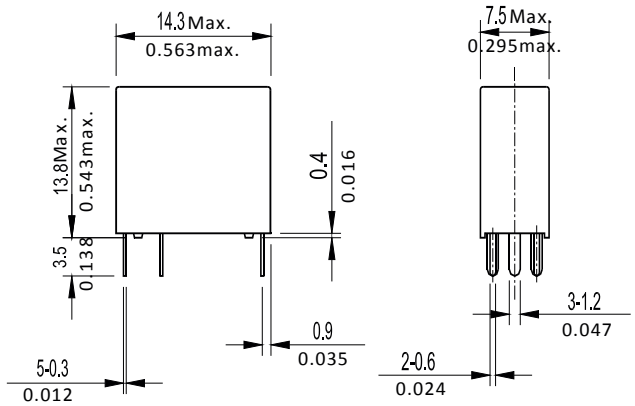
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

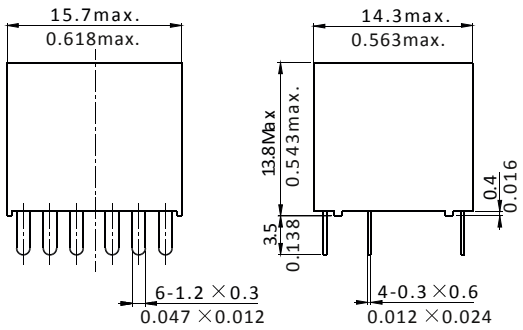
Specification

Mechanical life (frequency 18000 oper. / h)		10^6 Oper.
Electrical life (frequency 360 oper. / h)		10^5 Oper.
Operating time / Release time		≤10ms / ≤5ms
Insulation Resistance		100MΩ Min (at 500VDC)
Dielectric strength contacts/ coil		1000 VAC_{rms}
Dielectric strength open contacts		500 VAC_{rms}
Ambient temperature (nofreezing)		-40°C...+105°C
Vibration resistance		10 ~ 500Hz; 43.1m/s²
Shock resistance		98m/s² 11ms
Dimensions	Standard	14.3 x 7.5 x 13.8
	Twin	14.3 x 15.7 x 13.8
Weight	Standard	approx. 4.1g
	Twin	approx. 8.2g

Dimension (Bottom view)



Single



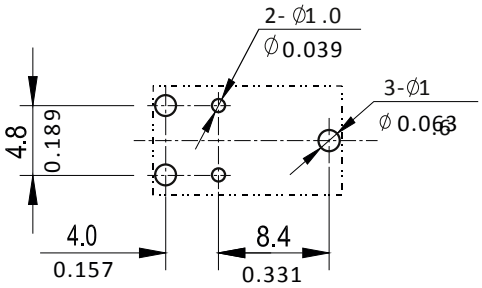
Twin

Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

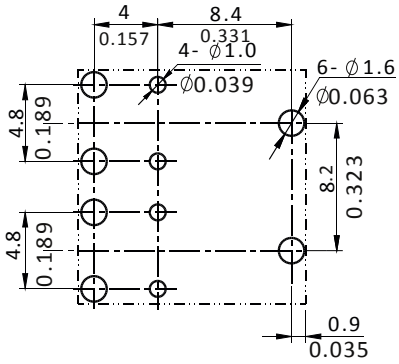
All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

NF125

Mounting (Bottom view)



Single

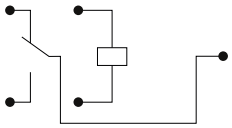


Twin

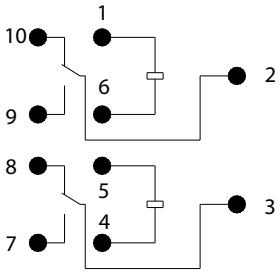
Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

Wiring Diagram

Bottom View



Single



Twin

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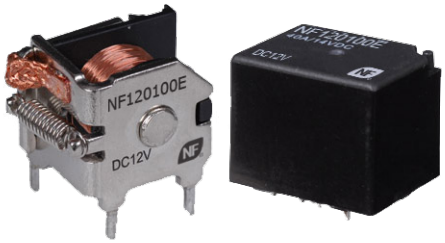
NF120

Features

- High power PCB relay with 40A rating.
- USA & European footprint are both available.
- Open frame, dust cover, flux-free type, and sealed type are available.
- General purpose applications for lamp control circuits, seat adjustment motors, window defoggers, starter solenoid switches, etc.



Ordering Information

NF120 100 E 12 S XXXX

1 2 3 4 5 6 7

1. NF120 -- Relay Series

2. 100 -- 1A
   001 -- 1C

3. E -- Contact Material Ag alloy

4. Blank -- European Version
   2 -- USA Version

5. 12 -- 12VDC
   24 -- 24VDC

6. Blank -- Flux tight
   S -- Sealed washable
   O -- Open

7. XXXX -- Letters and/or numbers for special customer design

Contact Data

Type of contact		Single Contact
Configuration		1A / 1C
Contact rating	1A-Form	45A, 14VDC
	1C-Form	NO: 40A, 14VDC; NC 30A, 14VDC
		NO: 20A, 28VDC; NC 15A, 28VDC
Max. switching power		630W 2400VA
Max. switching voltage		75VDC (max.45A)
Contact Resistance		≤30 mΩ

Coil rating (DC @+23°C)

U_N (VDC) Rated	R (Ω) ± 10%	Pull-in Voltage U_{PI} (VDC)	Drop-out voltage U_{DO} (VDC)	Coil power P_{coil} (W)
12	90	8.4	1.2	1.6
24	360	16.8	2.4	

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

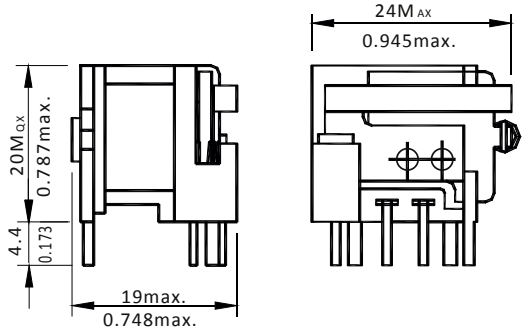
All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

NF120

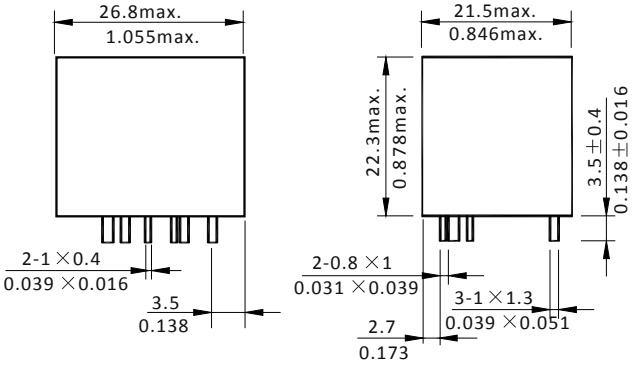
Specification

Mechanical life (frequency 18000 oper. / h)		10^7 Oper.
Electrical life (frequency 360 oper. / h)		10^5 Oper.
Operating time / Release time		≤5ms / ≤3ms
Insulation Resistance		100MΩ Min (at 500VDC)
Dielectric strength contacts/ coil		750 VAC_{rms}
Dielectric strength open contacts		500 VAC_{rms}
Ambient temperature (nofreezing)		-40°C...+125°C
Vibration resistance		10 ~ 40Hz; double amlitude 1.27mm
Shock resistance		200m/s^2 11ms
Dimensions	Covered	26.8 x 21.5 x 22.5
	Open	24 x 19 x 20
Weight	Covered	approx. 21g
	Open	approx. 19g

Dimension (Bottom view)



Open type

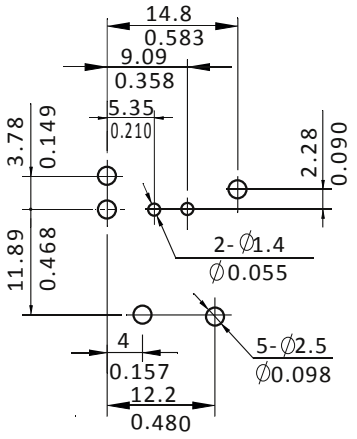


Covered type

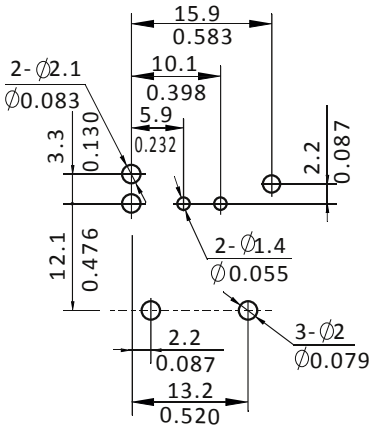
Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

Mounting (Bottom view)



USA footprint

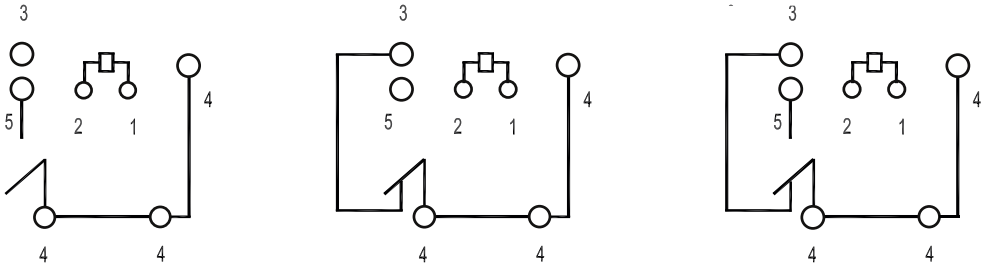


European footprint

Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

Wiring Diagram

Bottom View



1A 1B 1C

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NF115

Features

- Low profile automotive relays for Micro-ISO terminal
- Compact and high-capacity load switching up to 25A
- High temperature withstand up to 105°C
- General purpose application for head lamp, blower fan, defogger, etc.

Ordering Information

NF115	100	E	12	S	D	XXXX
1	2	3	4	5	6	7

1. NF115 -- Relay Series
2. 100 -- 1A
3. E -- Contact Material Ag alloy
4. 12 -- 12VDC Coil Voltage
5. Blank -- Dust cover
   S -- Sealed washable
6. Blank -- Standard
   D -- Diode
   R -- Resisitor
7. XXXX -- Letters and/or numbers for special customer design

Contact Data

Type of contact		Single Contact
Configuration		1A
Contact rating	1A-Form	25A, 14VDC
Max. switching power		350W
Max. switching voltage		75VDC (max.25A)
Contact Resistance		≤50 mΩ
Contact material		Ag alloy

Coil rating (DC @+23°C)

U_N(VDC) Rated	R (Ω) ± 10%	Pull-in Voltage U_{PI}(VDC)	Drop-out voltage U_{DO}(VDC)	Coil power P_{coil} (W)
12	180	7	0.6	0.8

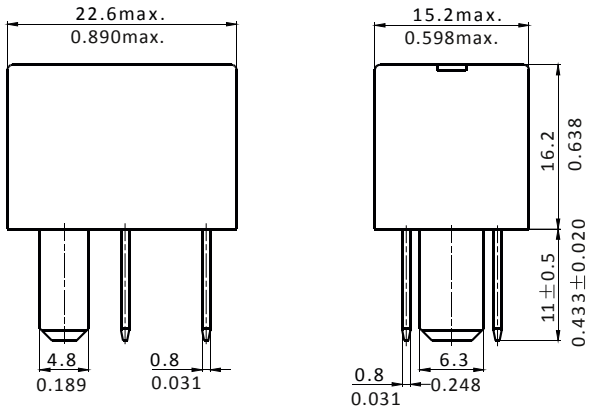
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

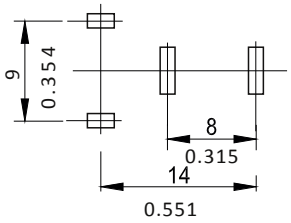
Specification

Mechanical life (frequency18000 oper. / h)		10^7 Oper.
Electrical life (frequency360 oper. / h)		10^5 Oper.
Operating time / Release time		≤10ms / ≤10ms
Insulation Resistance		20MΩ Min (at 500VDC)
Dielectric strength contacts/ coil		500 VAC_{rms}
Dielectric strength open contacts		500 VAC_{rms}
Ambient temperature (nofreezing)		-40°C...+105°C
Vibration resistance	Function	10 ~ 100Hz; 44.1 m/s^2
	Survivial	100 ~ 500Hz; 44.1 m/s^2
Shock resistance	Function	100m/s^2 11ms
	Survivial	1000m/s^2 11ms
Dimensions		22.7 x 15.2 x 16.2
Weight		approx. 15g

Dimension (Bottom view)



Mounting (Bottom view)



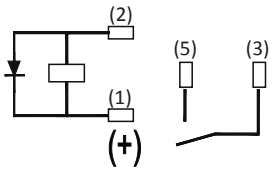
Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

NF115

Wiring Diagram

Bottom View



Disclaimer
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NF117

Features

- · High rating Micro ISO automotive relays.
- · Compact and high-capacity 35A load switching.
- · Surge suppression, with diode or resistor type available.
- · General purpose application for fan motor, heater, head lump, air compressor, ABS, blower fan, defogger, etc.

Ordering Information

NF117	100	E	12	S	P	D	XXXX
1	2	3	4	5	6	7	8

1. NF117 -- 30A Version
   NF117H -- 35A Version
2. 100 -- 1A
   001 -- 1C
3. E -- Contact Material Ag alloy
4. 12 -- 12VDC Coil Voltage
5. Blank -- Dust cover
   S -- Sealed washable
6. Blank -- Plug in
   P -- PCB
7. Blank -- Standard
   D -- Diode
   R -- Resisitor
8. XXXX -- Letters and/or numbers for special customer design

Contact Data

Type of contact		Single Contact
Configuration		1A/1C
Contact rating	1A-Form	30A, 14VDC (Standard) ; 35A, 14VDC (High Power)
	1C Form NO/NC	30A/25A, 14VDC (Standard) ; 35A/25A, 14VDC (High Power)
Max. switching power		490W
Max. switching voltage		75VDC (max.35A)
Contact Resistance		≤50 mΩ
Contact material		Ag alloy

Coil rating (DC @+23°C)

	U_N (VDC) Rated	R (Ω) ± 10%	Pull-in Voltage U_{PI} (VDC)	Drop-out voltage U_{DO} (VDC)	Coil power P_{coil} (W)
1A-Form	12	120	8.4	1.2	1.2
	24	480	16.8	2.4	
1C-Form	12	96	8.4	1.2	1.5
	24	384	16.8	2.4	

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

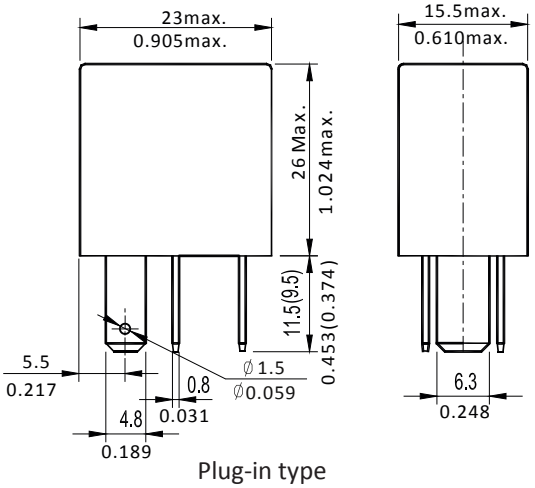
All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

NF117

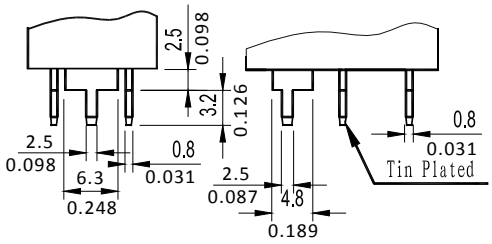
Specification

Mechanical life (frequency 18000 oper. / h)	10^7 Oper.
Electrical life (frequency 360 oper. / h)	10^5 Oper.
Operating time / Release time	≤10ms / ≤7ms
Insulation Resistance	100MΩ Min (at 500VDC)
Dielectric strength contacts/ coil	1000 VAC_{rms}
Dielectric strength open contacts	500 VAC_{rms}
Ambient temperature (nofreezing)	-40°C...+125°C
Vibration resistance	10 ~ 100Hz; double amplitude 1.27mm
Shock resistance	100m/s^2 11ms
Dimensions	23 x 15.5 x 26
Weight	approx. 18.5g

Dimension (Bottom view)

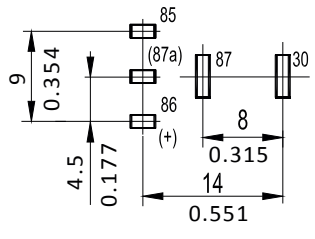


Plug-in type

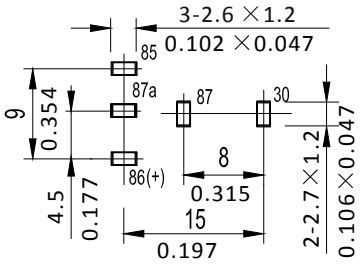


PCB type

Mounting (Bottom view)



Plug-in type



PCB type

Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

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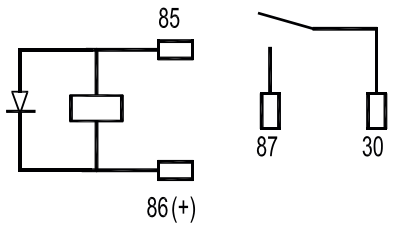
NF117

Wiring Diagram

Bottom View



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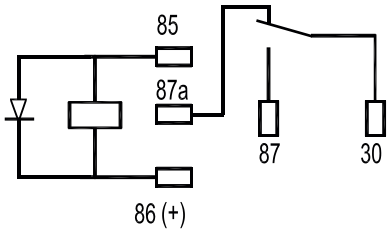

1C

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NF135

Features

- ISO 280 footprint automotive relay.
- High rating up to 35A at 125°C
- Optional to be equipped with diode or resistor.
- General purpose applications for automotive in power control box.

Ordering Information

NF135	100	E	12		D	XXXX
1	2	3	4	5	6	7

1. NF135 -- Relay Series

2. 100 -- 1A
   001 -- 1C

3. E -- Ag alloy

4. 12 -- 12VDC
   24 -- 24VDC

5. Blank -- Dust cover

6. Blank -- Standard
   D -- Diode
   R -- Resistor

7. XXXX -- Letters and/or numbers for special customer design

Contact Data

Type of contact		Single Contact
Configuration		1A / 1C
Contact rating	1A-Form	35A, 14VDC
	1C-Form	NO:35A / NC 25A, 14 VDC
Max. switching power		560W
Max. switching voltage		75VDC (max.40A)
Max. continous current		NO:40A, NC:35A
Contact resitance		≤100mΩ (1A, 6VDC)
Contact material		Ag alloy

Coil rating (DC @+23°C)

U_N(VDC) Rated	R (Ω) ± 10%	Pull-in Voltage U_{PI}(VDC)	Drop-out voltage U_{DO}(VDC)	Coil power P_{coil} (W)
12	109	7.2	0.6	1.3
24	436	14.4	2.4	1.3

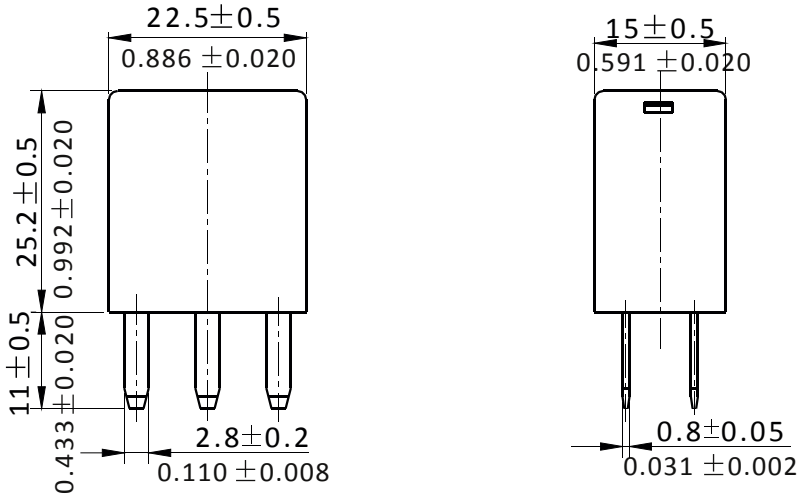
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

Specification

Mechanical life (frequency 18000 oper. / h)	10^7 Oper.
Electrical life (frequency 360 oper. / h)	10^5 Oper.
Operating time / Release time	≤5ms / ≤2ms
Insulation Resistance	100MΩ Min (at 500VDC)
Dielectric strength contacts/ coil	500 VAC_{rms}
Dielectric strength open contacts	500 VAC_{rms}
Ambient temperature (nofreezing)	-40°C...+125°C
Vibration resistance	10 ~ 100 Hz, double amplitude 1.27mm 40 ~ 70 Hz, 49m/s² 70 ~ 100 Hz, double amplitude 0.5mm 70 ~ 100 Hz, 98m/s²
Shock resistance	200m/s² 11ms
Dimensions	22.5 x 15 x 25
Weight	approx. 21g

Dimension (Bottom view)



Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

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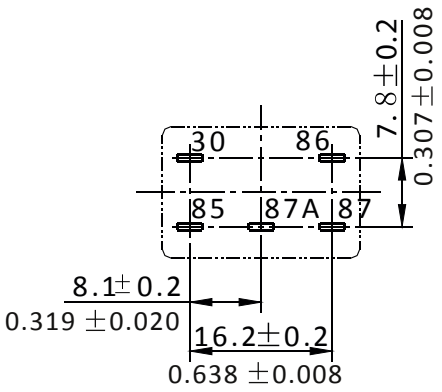
NF135

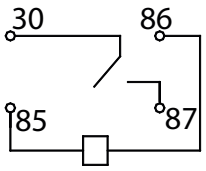
Mounting (Bottom view)



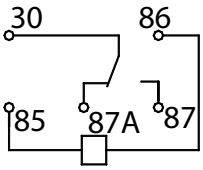
Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

Wiring Diagram

Bottom View



1A



1C

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NF104

Features

· Mini ISO high power automotive relay 30A/50A.
· High temperature endurance up to 125°C.
· Optional to be equipped with protection diode or resistor.
· Both available PCB terminal and quick connect terminal versions.
· General purpose applications for headlights, cell motors, air conditioners, ABS, EPS, etc.

Ordering Information

NF104	100	E	7	12	S	1	V	D	XXXX
1	2	3	4	5	6	7	8	9	10

1. NF104 -- 40A version
   NF104H -- 50A version
2. 100 -- 1A
   001 -- 1C
3. E -- Contact Material Ag alloy
4. Blank -- Standard
5. 12, 24 -- Coil Voltage [VDC]
6. Blank -- Dust cover
   S -- Sealed washable (NF104 only)
7. Blank -- Standard cover
   1 -- Insulation bracket
   2 -- Metal bracket
8. Blank -- Plug-in type 1
   P -- PCB (standard cover only)
9. Blank -- Standard
   D -- Diode
   R -- Resistor
10. XXXX -- Letters and/or numbers for special customer design

Contact Data

Type of contact	Single Contact	
Configuration	1A/1C	
Contact rating	NF104 1A-Form	40A, 14VDC 20A, 24VDC
	NF104 1C-Form NO / NC	40A/ 30A, 14VDC 20A/15A, 24VDC
	NF104H 1A-Form	50A, 14VDC 25A, 24VDC
	NF104H 1C-Form	50A / 40A,14VDC 25A / 20A, 24VDC
Max. switching power	NF104: 630W; NF104H: 700W	
Max. switching voltage	NF104:75VDC (max.40A); NF104H:75VDC(max. 50A)	
Contact Resistance	≤30mΩ	
Contact material	Ag alloy	

All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

NF104

Coil rating (DC @+23°C)

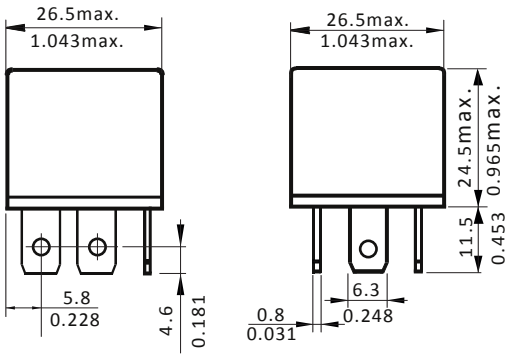
U_N (VDC)		R (Ω) ± 10%	Pull-in Voltage U_{PI} (VDC)	Drop-out voltage U_{DO} (VDC)	Coil power P_{coil} (W)
Rated	Max.				
12	15.6	90	7.8	1.2	1.6
24	31.2	360	15.6	2.4	

CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

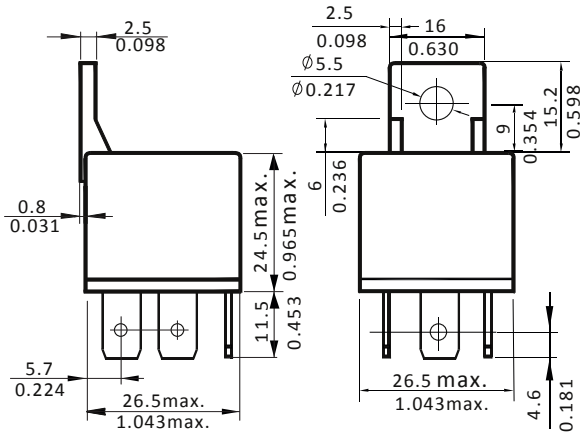
Specification

Mechanical life (frequency18000 oper. / h)		10^7 Oper.
Electrical life (frequency360 oper. / h)		10^5 Oper.
Operating time / Release time		≤7ms / ≤5ms
Insulation Resistance		100MΩMin (at 500VDC)
Dielectric strength contacts/ coil		750 VACrms
Dielectric strength open contacts		500 VACrms
Ambient temperature (nofreezing)		-40°C...+125°C
Vibration resistance		10 ~ 40Hz; double amplitude 1.5mm
Shock resistance		147m/s² 11ms
Dimensions	Standard	26.5 X 26.5 X 24.5
	With bracket	26.5 X 26.5 X 40.5
Weight	Standard	approx. 31g
	With bracket	approx. 36g

Dimension / Mounting (Bottom view)



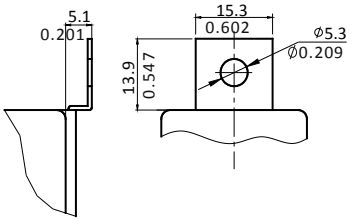
NF104 standard



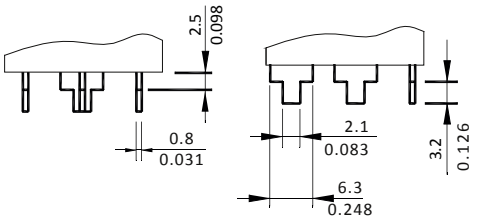
NF104 with insulation bracket

All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

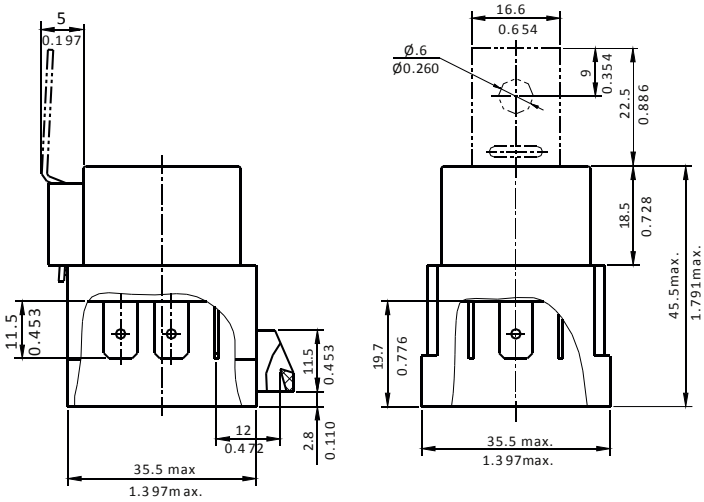
NF104



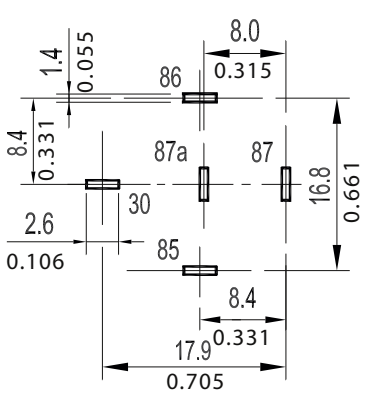
NF104 with metal bracket



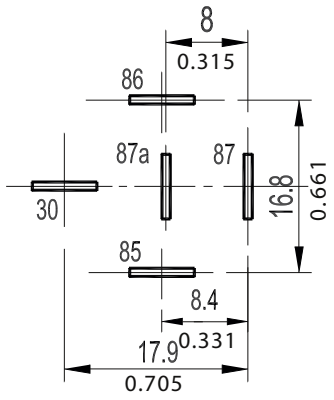
Note: Terminals as shown above are also available



NF104 shrounded with metal bracket



PCB type

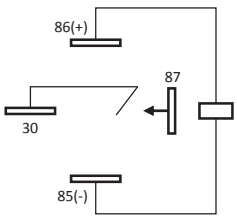


Plug in type 1

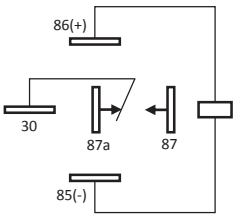
Notes: 1. Dimensions are in millimeters
2. Inch equivalents are given for general information only

Wiring Diagram

Bottom View



1A



1C plug in type 1

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NF105

Features

- 70A high power automotive relay.
- High temperature endurance up to 105° C.
- Optional to be equipped with protection diode or resistor.
- General purpose applications for ABS control, cooling fan, energy management, engine control, glow plug, heated front screen, ignition, etc.

Ordering Information

NF105	100	E	12	1	P	D	XXXX
1	2	3	4	5	6	7	8

1. NF105 -- Type
2. 100 -- Single pole normaly open, 1A
3. E -- Contact Material Ag alloy
4. 12, 24 -- Coil Voltage [VDC]
5. Blank -- Standard cover
   1 -- insulation bracket (Only plug-in type)
6. Blank -- Plug-in type; Mini ISO
7. Blank -- Standard
   D -- Diode
   R -- Resistor
8. XXXX -- Letters and/or numbers for special customer design

Contact Data

Type of contact	Single Contact	
Configuration	1A/1C	
Contact rating	NF105 1A-Form	70A, 14VDC 50A, 14VDC (at 85°C)
Max. switching power	980W	
Max. switching voltage	75VDC (max. 80A)	
Contact Resistance	≤200mV (at 70A)	
Contact material	Ag alloy	

Coil rating (DC @+23°C)

U_N (VDC) Rated	R (Ω) ± 10%	Pull-in Voltage U_{PI} (VDC)	Drop-out voltage U_{DO} (VDC)	Coil power P_{coil} (W)
12	90	7.2	1.6	1.6
24	360	14.4	3.2	

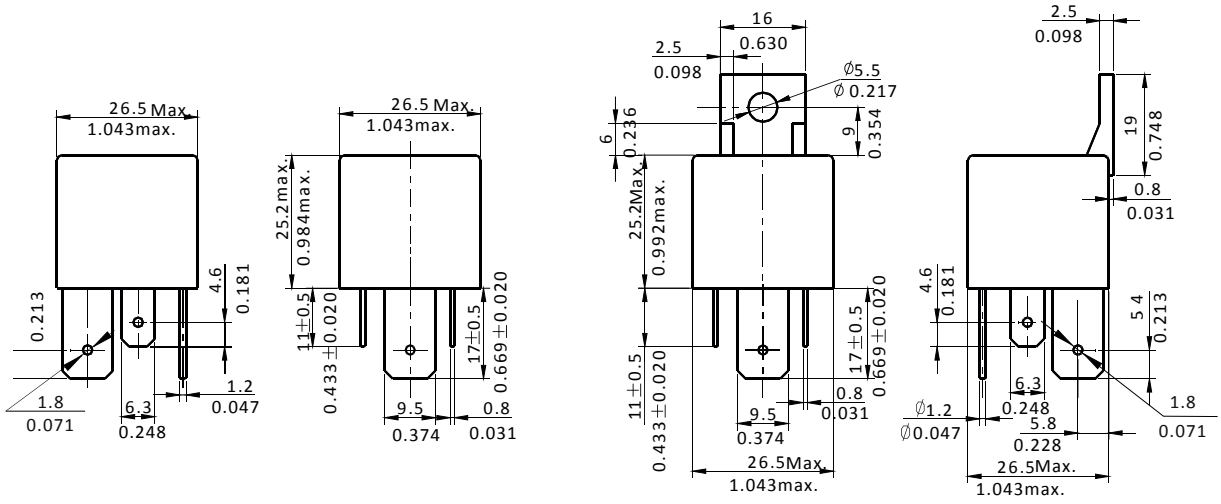
CAUTION: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pull-in and drop-out voltage are for test purposes only and not to be used as design criteria.

All specifications subject to change. Consult NF Forward GmbH for latest specifications. info@nfforward.com

Specification

Mechanical life (frequency 18000 oper. / h)		10^7 Oper.
Electrical life (frequency 360 oper. / h)		10^5 Oper.
Operating time / Release time		≤7ms / ≤2ms
Insulation Resistance		100MΩMin (at 500VDC)
Dielectric strength contacts/ coil		500 VAC_{rms}
Dielectric strength open contacts		500 VAC_{rms}
Ambient temperature (nofreezing)		-40°C...+105°C
Vibration resistance		20 ~ 500Hz; double amplitude 1.8mm
Shock resistance		30m/s² 6ms
Dimensions	Standard	26.5 X 26.5 X 25.2
	With bracket	26.5 X 26.5 X 41.2
Weight		approx. 36g

Dimension / Mounting (Bottom view)



Standard

Insualtion bracket

Notes: 1) Dimensions are in millimeters.
2) Inch equivalents are given for general information only.

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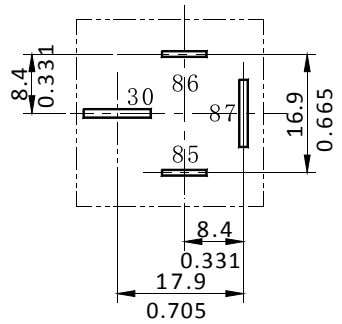
Mounting

Bottom View

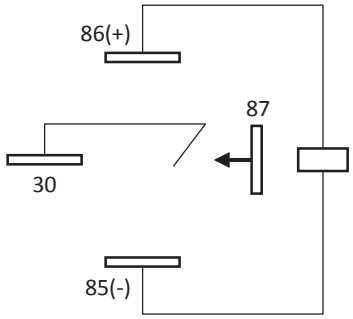


Plug-in type

Notes: 1. Dimensions are in millimeters
2. Inch equivalents are given for general information only

Wiring Diagram

Bottom View



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