



NF FORWARD



RELAYS FOR EVERY PURPOSE

PCB Power Relays

Signal Relays

Automotive Relays



emobility & New Energy

PCB POWER RELAYS



Type of Relay	NF5	NF8
		
Mounting height (mm)	15.3	15.3
Mounting space (mm)	19.5 x 15.6	19.5 x 15.6
Contact arrangement	1a, 1c	1a, 1c
Contact rating	5A 250VAC	10A 250VAC
Contact voltage	5, 6, 9, 12, 18, 24, 48	5, 6, 9, 12, 18, 24, 48
Coil Power	360mW	360mW
T (ambient)	-40 to 105°C	-40 to 105°C
Approvals	UL, VDE, CQC	UL, VDE, CQC
IEC60335-1 Ed.5	•	•
EN60079-15 clause 22.4 / 22.5		22.4



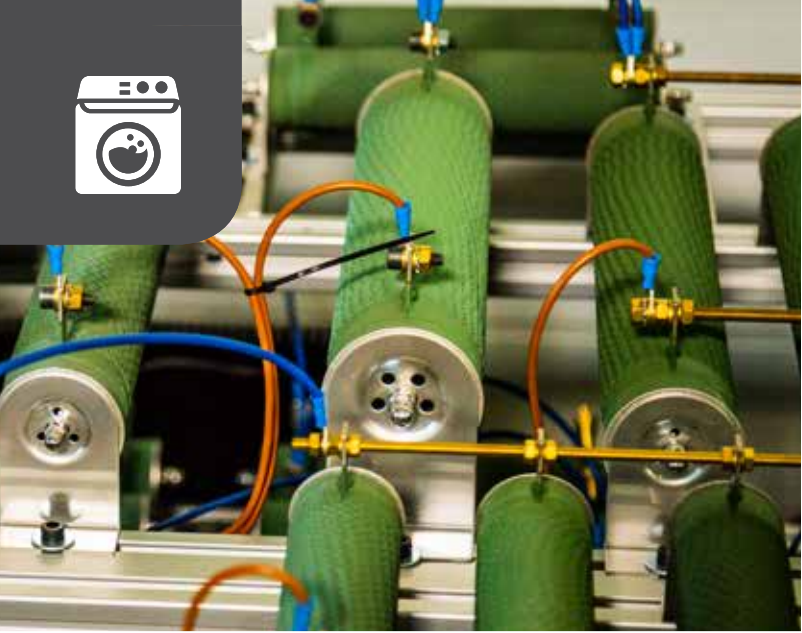
NF6	NF7
	
15.3	21.0
19.5 x 15.6	21.3 x 16.2
1a, 1c	1a, 1c
12A 250VAC	16A 250VAC
5, 6, 9, 12, 18, 24, 48	5, 6, 9, 12, 18, 24, 48
360mW	360mW
-40 to 105°C	-40 to 105°C
UL, VDE, CQC	UL, VDE, CQC
•	•
22.4	22.4 & 22.5



PCB POWER RELAYS



Type of Relay	SG3	NF10
		
Mounting height (mm)	12.5	15.3
Mounting space (mm)	17.5 x 6.5	20.3 x 7
Contact arrangement	1a	1a
Contact rating	5A 250VAC, 30VDC	5A 250VAC
Coil voltage	5, 12, 24	5, 12, 18, 24
Coil power	200mW	200mW
T (ambient)	-25 to 70°C	-40 to 105°C
Approvals	UL	UL, VDE
IEC60335-1 Ed.5		•
EN60079-15 clause 22.4 / 22.5		22.4

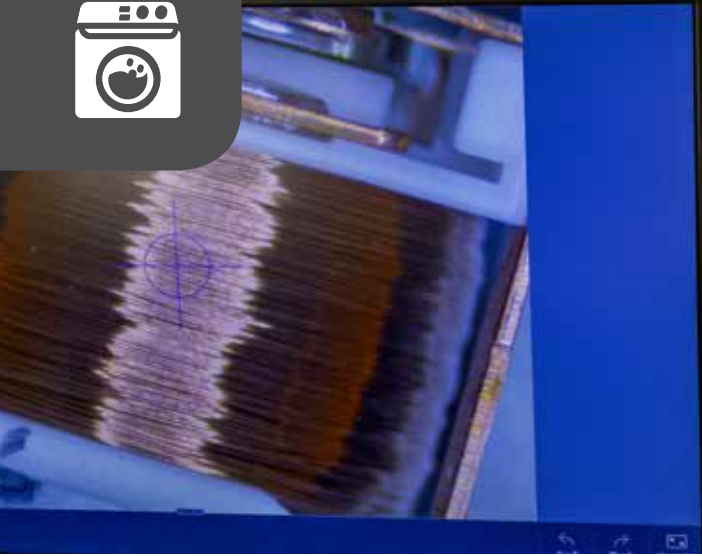


S7	NF90 (H, P)	WR11
		
12.5	20.5	15.2
28.5 x 10.1	32.5 x 27.6	19.8 x 9.9
1a, 1c	1a, 1c	1a, 1c
10A 250VAC, 30VDC	30/40/50A, 250VAC	10A, 250VAC
5, 6, 9, 12, 18, 24, 48	5, 6, 9, 12, 24, 48	5, 6, 9, 12, 24
220, 250mW	900, 1500mW	200 / 400mW
-40 to 85°C	-55 to 100°C	-40 to 105°C
UL, VDE	UL	UL, VDE
•		•
		22.5

PCB POWER RELAYS



Type of Relay	NF75	NF75N
		
Mounting height (mm)	15.7	16.1
Mounting space (mm)	29 x 12.7	29 x 12.7
Contact arrangement	1a, 1c	1a, 1c
Contact rating	16A 250VAC	16Q 250VAC
Coil voltage	5, 12, 24	5, 12, 24, 48
Coil power	410mW	250, 410mW
T (ambient)	-40 to 85°C	-40 to 105°C
Approvals	UL, VDE, CQC	UL, VDE, CQC
IEC60335-1 Ed.5	•	•
EN60079-15 clause 22.4 / 22.5	•	•



NF75L (Latching)



15.7

29 x 12.7

1a, 1c

16A 250VAC,

3, 5, 6, 9, 12, 24 *1*2

400*1, 600mW*2

-40 to 85°C

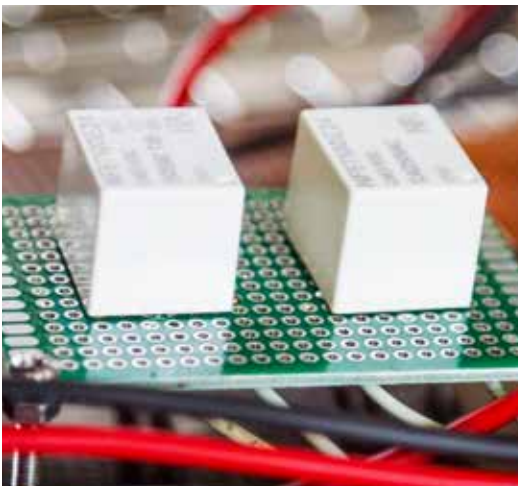
UL, VDE

•

*1 Single Coil; *2 Dual Coil



Accessories

Wide range of accessories for Solid State and Electromechanical Relays.



PCB POWER RELAYS



Type of Relay	ST1	ST2
		
Mounting height (mm)	10	12
Mounting space (mm)	12.5 x 7.5	20 x 9.8
Contact arrangement	1c	2c
Contact rating	0.5A 125VAC, 1A 24VDC	0.6A 125VAC, 2A 30VDC
Coil voltage	5, 6, 9, 12, 24	5, 6, 9, 12, 24, 48
Coil power	150mW	150, 200, 300mW
T (ambient)	-30 to 70°C	-40 to 90°C
Approvals	UL	UL



ST3 (mono-stable)

NF42



5

11.5

14 x 9

15.5 x 11

2c

1c

0.5A 125VAC,
2A 30VDC

3A 125VAC,
30VDC

5, 6, 9, 12, 24

5, 6, 9, 12, 18, 24

140, 200mW

200mW

-40 to 70°C

-25 to 70°C



UL

UL



AUTOMOTIVE RELAYS





Type of Relay	NF125 NF125T	NF108 NF108T
		
Mounting height (mm)	12.5	15.3
Mounting space(mm)	14.3 x 7.5(twin:15.7)	16.1 x 12.5(twin:25.5)
Contact arrangement	1c (1c x2)	1c, 1u (1c x2)
Terminals	PCB	PCB
Contact rating	25A 14VDC motor lock	20A 14VDC
Coil Voltage	12	12, 24
Coil Power	640mW, 800mW	690mW
T _(ambient)	-40 to 105°C	-40 to 105°C
Comment	wave and reflow (PIP)	





NF123H NF123HT	NF120
	
9.9	22.3
12 (twin:23.6) x 12.9	16.8 x 21.5
1a, 1c (1a x 2, 1c x 2)	1a, 1c
PCB	PCB
NO: 30A 14VDC NC: 25A 14VDC	45A 14VDC
12, 24	12, 24
570mW	1300mW
-40 to 105°C	-40 to 125°C
	open and covered types



AUTOMOTIVE RELAYS



Type of Relay	NF115 ISO Micro low profile	NF116 ISO Micro
		
Mounting height (mm)	16.2	22.1
Mounting space(mm)	22.5 x 15.2	20.5 x 15.4
Contact arrangement	1a	1a, 1c
Terminals	plug-in	plug-in
Contact rating	25A 14VDC	35A 14VDC
Coil Voltage	12	12, 24
Coil Power	960mW, 1070mW	1500mW, 1800mW
T _(ambient)	-40 to 100°C	-40 to 125°C

Type of Relay	NF105 ISO Maxi	NF107 ISO Maxi
		
Mounting height (mm)	26.5	22.7(+15.2), 45.5(+22.5)
Mounting space(mm)	29 x 29	26 x 26, 35.5 x 35.5
Contact arrangement	1a, 1c	1a
Terminals	pcb, plug-in	plug-in
Contact rating	80A 14VDC	70A 14VDC 80A 14VDC
Coil Voltage	12, 24	12, 24
Coil Power	1800mW	1600mW *1
T _(ambient)	-40 to 125°C	-40 to 125°C

*1 with or without resistor

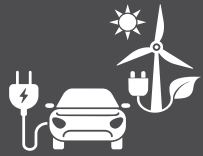


NF117 ISO Micro	NF104 ISO Micro	NF106 ISO Mini
		
26	24.5	22.7
23.5 x 15.8	26.5 x 26.5	26.5 x 26.5
1a, 1c	1a, 1c	1a, 1c
PCB, plug-in	PCB, plug-in	PCB, plug-in
35A 14VDC	40A 14VDC	50A 14VDC
12, 24	12, 24	12, 24
1200mW, 1500mW	1600mW	1600mW
-40 to 125°C	-40 to 125°C	-40 to 125°C

NF135 ISO 280	NF136 ISO 280
	
25	16.4
22.5 x 15	25.5 x 15
1a, 1c	1a
Micro ISO 280 NO: 40A 14VDC NC: 35A 14VDC	Micro ISO 280 25A 14VDC
12, 24	12
1300mW	1090mW
-40 to 125°C	-30 to 100°C



E-MOBILITY & NEW ENERGY



Type of Relay	NF32	NF90-G
		
Mounting height (mm)	21.0	20.5
Mounting space (mm)	21.3 x 16.2	32.5 x 27.6
Contact arrangement	1a	1a, 1c
Contact rating	32A 250VAC	30/40A 250VAC
Contact voltage	9, 12, 24	5, 6, 9, 12, 24, 48
Coil Power	2800mW	1500mW
T (ambient)	-40 to 85°C	-40 to 85°C
Approvals	UL	UL
Comment	>2.1mm contact gap	>1.8mm contact gap

ABOUT US

NF Forward manufactures and supplies a wide range of automotive, general purpose, power, signal and solid state relays, certified with approvals customary in the particular market. Whether standard off-the-shelf or customized to fulfill specific customer requirements, all relays are produced on certified, highly automated production lines in China.

Headquarters and warehouse are located in Europe/Germany and covers the EMEA region whereas NF Forward USA in Florida covers the Americas with centralized warehousing in El Paso, Texas, and Sunrise, Florida. We also have an extensive distribution network within Europe, continental USA and China.

NF Forward is primarily focused on automotive, appliances and industrial markets.

RoHS Declaration on 2015/863

Relays are fully compliant with the Restrictions of the use of Hazardous Substances in Electrical and Electronic Equipment.

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