



NF116

20.5×15.4×22.1

Features

- ISO 280 automotive relay with small size
- Small volume and light weight
- Contact rating: 35A and 40A versions are available

NF116	100	Е	<u>12</u>	S	R	XXXX	
1	2	3	4	5	6	7	
. Type: . Contact arrang	ement:	NF116 100 = 1A;	001 = 1C;		7. Coil sup	opression:	Nil = Standard; D = Diode; R = Resistor
. Contact materia	al:	E = Ag alloy 12 = 12VDC	; 24 = 24VD	C.	8. Special	:	XXXX = Letters and / or number for special
5. Protection:			over; S = Sea	,			custom design

Contact Data

Contact Arra	ngement	1A(1H) SPSTNO 1C(SPDT(B-M))						
Contact Mate	0	AgSnO						
Contact Rating (resistive)		Coil rated voltage	1A	1C				
		12V	35A/14VDC	NO:35A/14VDC NC:20A/14VDC				
		24V 15A/28VDC		NO:15A/28VDC NC:8A/28VDC				
Max. Switchi	ng Power	560W		,				
Max. Switching Voltage		28VDC	28VDC Max. Switching Current:40A					
Max. Inrush Current		NO:90A ; NC:25A	NO:90A ; NC:25A					
Contact Resistance or Voltage drop		50mΩ (6VDC 1A)	Item 4.12 of IEC 61810	-7				
Operation	Electrical	10 ⁵	10 ⁵ Item 4.30 of IEC 61810-7					
life	Mechanical	10 ⁷	10 ⁷ Item 4.31 of IEC 61810-7					

Coil Parameter

Dash numbers	Coil ve VE		resis	oil tance 10%	With Suppression	voltage	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W		Release Time ms
numbers	Rated	Max.	Without Resistor	With Resistor	Rsistive					
012-1500	12	16	96	84	680	7.2	1.2	1.5	10	≤10
024-1800	24	32	320	286	2700	14.4	2.4	1.8	10	≪10

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

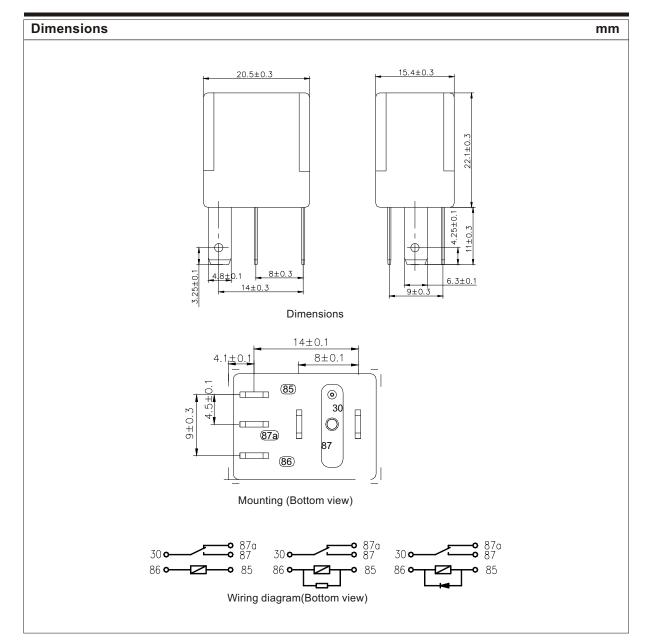


NF116

NF FORWARD

Operation condition

Insulation Resistance	100M min (at 500VDC)	Item 7 of IEC 60255-5	
Dielectric Strength			
Between contacts	50Hz 500V	Item 6 of IEC 60255-5	
Between contact and coil	50Hz 500V	Item 6 of IEC 60255-5	
Shock resistance	Function:100m/s ² 11ms	IEC 68-2-27 Test Ea	
Shock resistance	Destructive:1000m/s ² 11ms	ILC 00-2-27 Test La	
Vibration resistance	Function:10Hz~55Hz Double amplitude 1.5mm	IEC 68-2-6 Test Fc	
VIDIATION LESISTANCE	Destructive:10Hz~55Hz Double amplitude 1.5mm	ILC 08-2-0 Test I C	
Terminals strength	100N	IEC 68-2-21 Test Ua2	
Ambient Temperature	-40 ~125 °C		
Relative Humidity	35%~85% (at 40°C)	IEC 68-2-3 Test Ca	
Mass	Approx.18g		



Disclaimer

All technical performance data apply to the relay as such, specific conditions of the individual application are not considered. Please always check the suitability of the relay for your intended purpose. We do not assume any responsibility or inability for not complying herewith. We recommend to complete our questionnaire and to request our technical service. Any responsibility for the application of the product remains with the customer only. All specifications are subject to change without notification. All rights of MF Forward CISA Inc. are reserved.

