NACF.XXXJ-S5/V

系列开环霍尔电流传感器

Series Open loop Hall current transducer



功能要求/ Function

NACF.XXXJ-S5/V系列电流传感器具有精度高、体积 小等特点，应用于变频器等电气设备的系统控制及检测。

The transducer has the characteristics of high-accuracy,small size and space savings,It is suitable for system control and detection such as variable frequency drive and other industrial fields.

产品概况 / Product introduction

NACF.XXXJ-S5/V系列开环霍尔电流传感器适用于对交流、直流、脉冲电流的隔离精确测量，测量时一次侧与二次侧间完全 绝缘。

NACF.XXXJ-S5/V are a serial of open loop current transducers for the electronic measurement of currents: AC, DC , pulsed… , with galvanic separation between the primary circuits and the secondary circuits.

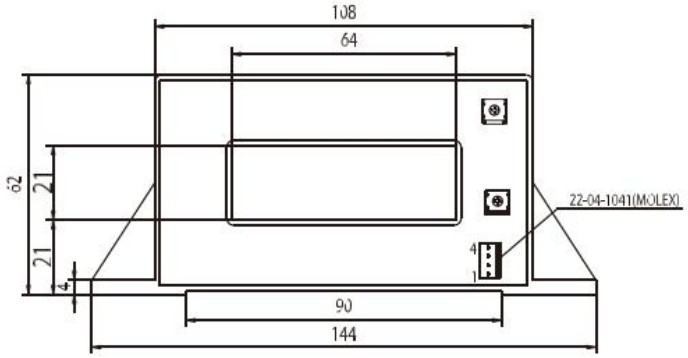
性能要求 / Product performance

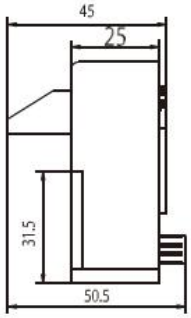
序号 No.	项目名称 Item	电气参数 / Electrical characteristics								
		NACF.500 J-S5/V	NACF.600 J- S5/V	NACF.850 J-S5/V	NACF.100 0J-S5/V	NACF.120 0J-S5/V	NACF.150 0J-S5/V	NACF.200 0J-S5/V	NACF.250 0J-S5/V	NACF.300 0J-S5/V
1	额定测量电流I_{PN} / Primary nominal current	500A	600A	850A	1000A	1200A	1500A	2000A	2500A	3000A
2	测量范围I_{PM} / Primary current measuring range	±1500A	±1800A	±2550A	±3000A	±3600A	±4500A	±5500A	±5500A	±5500A
3	额定测量输出V_{SN} / Nominal output voltage	4V								
4	电源电压V_c / Supply voltage	±15×(1±5%)V								
5	基本误差δ_i / Accuracy(excluding offset)	≤±1% of I_{PN} （@I_{PN}，25℃）								
6	零点输出误差δ_z / Electrical offset	≤±20mV（@25℃）								
7	线性度误差δ_L / Linearity error	≤±1% of I_{PN} （0～±I_{PN} @25℃）								
8	零点温度漂移δ_{zt} / Temperature coefficient of δ_z	≤±1mV/℃（-40℃～+85℃）								
9	响应时间Tr / Step response time to 90 % of I_{PN}	≤5us								
10	电流消耗 I_c / Current consumption	≤25mA+V_{SN}/R_M								
11	带宽(-3dB)BW / Frequency bandwidth	DC … 25kHz								
12	负载电阻R_M / Load resistance	≥2kΩ								
13	绝缘电阻R_{IS} / Isolation resistance	≥1000 MΩ(@2500V)								
14	耐压U_d / Voltage for AC insulation test	5kVrms/50Hz/1min								
15	工作温度Ta / Ambient operating temperature	-40℃～+85℃								
16	储存温度Ts / Ambient storage temperature	-45℃～+90℃								
17	重量m / Weight	≤460g								

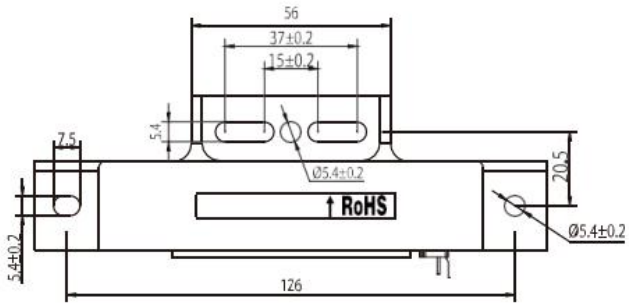
We reserve the right to carry out modifications on its transducers; in order to improve them,without prior notice.

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18	爬电距离 Creepage distance	15.7mm								
19	电气间隙 Clearance	12.7mm								

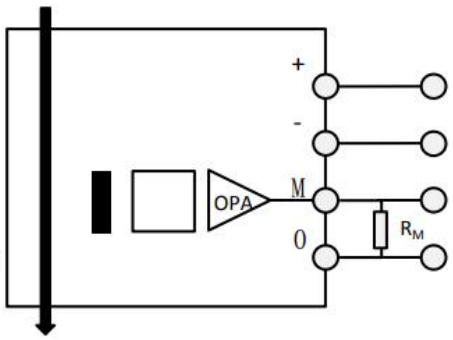
安装示意图 / Dimensions (in mm)







NACF.XXXJ-S5/V Series



电气连接图Electrical Connection

- 当测量电流方向与传感器上箭头标示的方向一致时，传感器输出为正。Output V_{SN} is positive when IP flows in the direction of the arrow.

序号 No.	安装接口 / Mechanical characteristics	
1	未注公差 Genaral Tolerance	±1mm
2	传感器安装方式一 Transducer fastening	1 hole and 1 notch ø5.5mm,2 M5 steel screws
3	传感器安装方式二 Transducer fastening	1 hole and 2 notches ø 5.5mm，3 M5 steel screws
4	推荐力矩 Recommended fastening torque	2.5 N·m
5	穿心孔 Primary through-hole	64×21mm
6	次边电气连接 Connection of secondary	Molex 22-04-1041

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