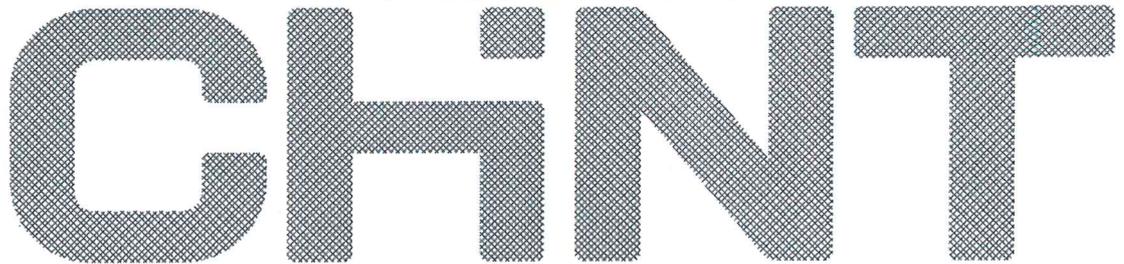


NJBK7-800电动机保护继电器

英文使用说明书

0ZTD. 463. 670

The logo for CHINT, consisting of the letters C, H, I, N, and T in a bold, sans-serif font. The letters are filled with a fine, grid-like pattern.

浙江正泰电器股份有限公司

2017年12月

设计文件名称	英文使用说明书	OZTD. 463. 670	
产品型号、名称	NJBK7-800电动机保护继电器		
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1 Scope of Application

NJBK7-800 series motor protection relay (hereinafter referred to as "Protector") is applicable for overload protection, locked rotor protection, phase failure protection, three-phase imbalance protection, undercurrent protection, grounding protection, PTC temperature protection and communication failure protection for AC electromotors of a frequency of 50Hz with a rated insulation voltage of up to 690V and a rated operating current of 1A~800A during long-term and discontinuous operation. This protector is provided with RS485 interface and 4mA~20mA current loop transmitter interface for network communication and performs remote monitor control on the motor and fault query through opper computer. This protector is usually used to combine with AC contactor.

This product conforms to IEC60947-4-1.

2 Normal operating conditions、environment、traspotation and storag

2.1 Altitude: Not more than 2000m.

2.2 Ambient air condition: -5℃~+40℃, and the average value in 24 hours shall not exceed +35℃.

2.3 When the maximum temperature is +40℃, the relative humidity of air shall not exceed 50% and higher relative humidity is allowable at lower temperature comparatively (e.g the air humidity may reach 90% when the temperature is +20℃). Special measures shall be taken to deal with occasional condensation caused by variation in temperature.

2.4 Pollution class: 3.

2.5 The slope degree between installing and verical plane shall not exceed ±5°.

2.6 Explosion hazard-free media, in which there are no gasses that are capable of corroding metals and damage the insulation and not conducting dust.

2.7 Areas with rain-and-snow-proof equipment and without water vapor.

2.8 Areas without noticeable shaking, impact and vibration.

2.9 Installation class: III.

2.10 Enclosure protection class: IP20.

2.11 Electromagnetism environment: environment B.

2.12 Rated duties of the protector considered are: eight-hour duty or uninterrupted duty.

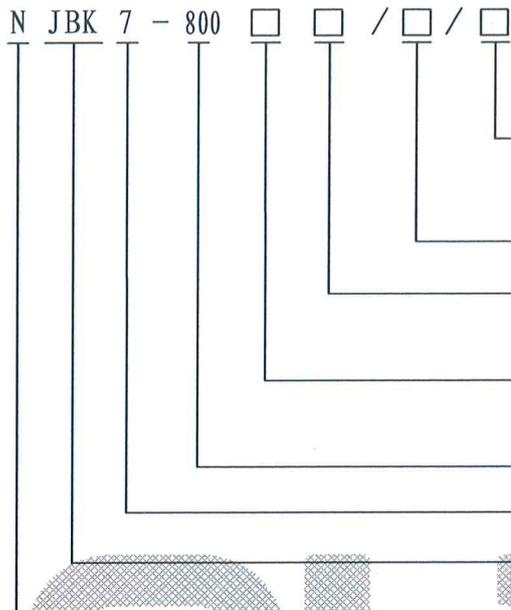
2.13 Transportation and storage: the temperature of transportation ranges from -25℃ to +55℃, and it is allowed to reach +70℃ in a short time (less than 24h). If the Protector is in extreme temperature but not operating, it shall not suffer the damage that is irreversible, and the protector should be operated in proper way. When the protector is in transportation, bumpy, shock and impact violently is not allowed with the ability of preventing rain, snow, dust and wet. The transport requirement must suit for land and water.

3 Model and technical parameters

NJBK7-800
描 写
描 校
旧底图总号
底 图 总 号
签 字
日 期
标记处数
更改文件号
签 字 日期

				资 料 来 源	编 制	张 威 武	20171204
				自 编	校 对	徐 若 良	20171204
				提出部门	标 准 化	邓 嫦 妹	20171205
				继电器制造部	审 定	王 联 长	20171206
					批 准		

3.1 Model and Denotation



Control power supply voltage
(AC220V, AC230V, AC240V, AC380V, AC400V, AC415V)
Rated current: 5, 10, 40, 100, 400, 800
None: communication interface is not available
T: RS485 interface
None: 4mA~20mA analog transformation is not available
M: 4mA~20mA analog transmission
Specification code
Design sequence No.
Motor protection relay
Company code

3.2 Basic parameters of main circuit

Rated insulation voltage AC690V and rated frequency is 50Hz, rated impulse withstand voltage 1.2/50μs, 4kV, rated current 1A~800A. See Table 1 for details.

Table 1 main circuit's main parameters

Model	rated current A	current setting range A	Appropriate motor power kW
NJBK7-800□□/5/□	5	1~5	0.5~2.5
NJBK7-800□□/10/□	10	2~10	1~5
NJBK7-800□□/40/□	40	8~40	4~20
NJBK7-800□□/100/□	100	20~100	10~50
NJBK7-800□□/400/□	400	80~400	40~200
NJBK7-800□□/800/□	800	200~800	100~400

3.3 Auxiliary parameters of main circuit

Rated insulation voltage is AC480V, and the rated frequency is 50Hz, rated impulse withstand voltage 1.2/50μs, 2.5kV. See Table 2 for auxiliary contact parameters.

Table 2 auxiliary circuit's main parameters

Application class	AC-15	
Rated operating voltage U_e (V)	240	480
Rated operating current I_e (A)	1.5	0.75
Rated thermal current I_{th} (A)	5	

NJBK7-800

描 写

描 校

旧底图总号

底图总号

签 字

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