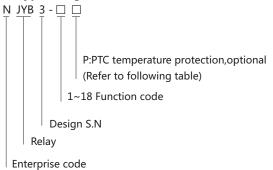




2. Type designation



NJYB3 Relay

1. General

NJYB3 Relay is used to provide overvoltage, undervoltage, phase failure, phase sequence, three-phase unbalance, PTC temperature and load protection control in three-phase three-wire up to 415V circuits and three-phase four-wire up to 240V circuits with a frequency of AC50Hz. This relay is a voltage protection relay. After detecting the voltage signal, the relay processes the input signal, judges if

This relay is a voltage protection relay. After detecting the voltage signal, the relay processes the input signal, judges if there is an overvoltage, undervoltage, phase failure, phase sequence, three-phase unbalance, PTC temperature and load error and controls the opration accurately and stably by means of the built-in microprocessor.

2 Type designation



3. Technical data

Model	Protection function	Protection operation time	Rated operational voltage	Contact capacity	Contact form	Electrical life	Mechanical life
NJYB3	Overvoltage		Three-phase three-wire system: AC380V~AC415V 50Hz	Ue/Ie:AC-15 240V/0.75A,	1 Z	10 ⁵	10°
	Undervoltage	0.1s~10s					
	Three-phase voltage unbalance	0.13**103					
	Phase failure, phase sequence PTC temperature	≤1s	Three-phase four-wire system: AC220V~AC240V 50Hz	415V/0.47A; Ith:3A			

Model	Three- phase	Three- phase four- wire	Single- phase/ two- phase	Overvoltage protection	Undervoltage protection	Unbalance protection	Phase sequence protection	Phase failure protection	PTC Temperature protection	Load protection
NJYB3-1	•	_	-	_	-	_	•	•	0	_
NJYB3-2	•	_	_	(1.05~1.30)×Us	-	-	-	•	_	-
NJYB3-3	•	_	_	_	(0.70~0.95)×Us	-	_	•	_	_
NJYB3-4	•	_	_	(1.05~1.30)×Us	(0.70~0.95)×Us	-	-	•	_	-
NJYB3-5	•	_	-	(1.05~1.30)×Us	(0.70~0.95)×Us	_	•	•	_	-
NJYB3-6	•	_	_	(1.05~1.30)×Us	(0.70~0.95)×Us	Fixed 20%	•	•	0	-
NJYB3-7	•	_	-	Fixed 120%×Us	Fixed 80%×Us	5%~15%	•	•	0	_
NJYB3-8	•	-	-	(1.05~1.30)×Us	(0.70~0.95)×Us	5%~15%	•	•	0	-
NJYB3-9	_	•	•	(1.05~1.30)×Us	-	_	_	•	-	_
NJYB3-10	_	•	•	_	(0.70~0.95)×Us	-	_	•	_	-
NJYB3-11	_	•	•	(1.05~1.30)×Us	(0.70~0.95)×Us	-	_	•	_	-
NJYB3-12	_	•	-	(1.05~1.30)×Us	(0.70~0.95)×Us	Fixed 20%	•	•	_	-
NJYB3-13	_	•	_	(1.05~1.30)×Us	(0.70~0.95)×Us	5%~15%	•	•	0	_
NJYB3-14	_	•	_	Fixed 120%×Us	Fixed 80%×Us	5%~15%	•	•	0	-
NJYB3-15	_	•	_	(1.05~1.30)×Us	(0.70~0.95)×Us		•	•	0	_
NJYB3-16	-	•	_	_	_	_	•	•	0	-
NJYB3-17P	•	_	-	_	_	_	_		•	_
NJYB3-18	•	-	-	(1.05~1.30)×Us	(0.70~0.95)×Us	Fixed 20%	•	•	_	•

- Note:

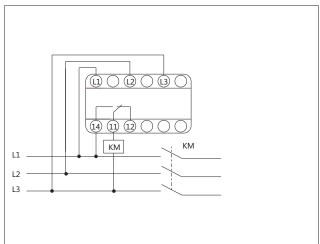
 mean it must have this function;
 - mean it certainly does not have this function;
 - O mean this function can be chosen, or can be selected no.

Immunity

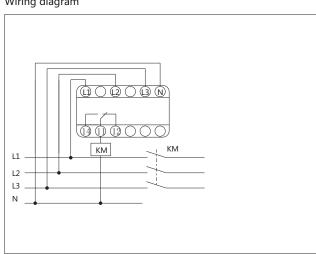
Item	Severity level				
Electrostatic discharge immunity	8kV (air discharge)				
Radiated electromagnetic field immunity	Test electric field strength: 10V/m				
Fast transient immunity	For power line, 2kV, duration: 1min				
Surge (impact) immunity	Open circuit test voltage: 1kV				

4. Wiring diagram

NJYB3-1, NJYB3-2, NJYB3-3, NJYB3-4, NJYB3-5, NJYB3-6,NJYB3-7, NJYB3-8 Wiring diagram

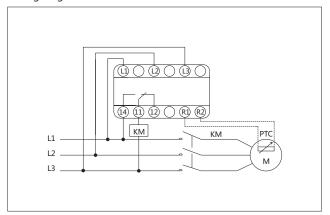


NJYB3-12, NJYB3-13, NJYB3-14, NJYB3-15, NJYB3-16 Wiring diagram

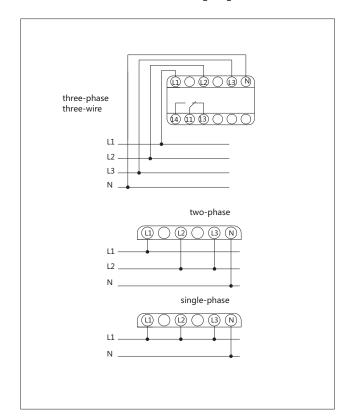




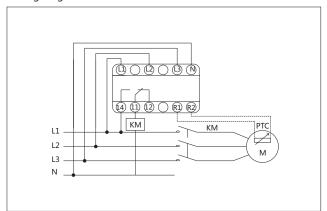
NJYB3-1P、NJYB3-6P、NJYB3-7P、NJYB3-8P、NJYB3-17P Wiring diagram



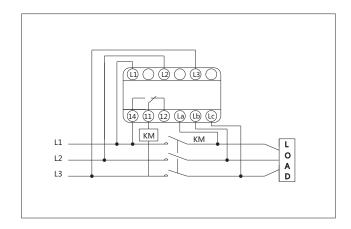
NJYB3-9、NJYB3-10、NJYB3-11 Wiring diagram



NJYB3-13P、NJYB3-14P、NJYB3-15P、NJYB3-16P Wiring diagram



NJYB3-18 Wiring diagram



5. Overall and mounting dimensions (mm)

