CHNT



2. Type designation N JYB 3 - □ I ~ 1~16 function code Design sequence No. Relay Company code

NJYB3 Relay

1. General

3. Technical data

NJYB3 relay is used to provide overvoltage, undervoltage, phase failure, phase sequence and three-phase unbalance control in three-phase three-wire 380V circuits and threephase four-wire 220V circuits with a frequency of AC 50Hz/60Hz. For example, it is used for power control systems, air conditioning systems and motors. 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, error-phase or unbalance and controls the operation accurately and stably by means of the built-in microprocessor.

Protection Rated Contact Contact Electrical Mechanical Protection Model operation operational function capacity form life life time voltage Overvoltage Three-phase Undervoltage Ue/le:AC-15 0.1s~10s three-wire system: NJYB3 Three-phase 220V/0.75A, AC 380V 50Hz/60Hz voltage unbalance 1 Z 10⁵ 10⁶ 380V/0.47A; Three-phase lth:3A Phase failure, ≪1s four-wire system: phase sequence AC 220V 50Hz/60Hz

45 > >>

Relay Protection Relay



Model	Three-ph ase three- wire	Three-ph ase four - wire	Single-phase/ two-phase	Overvol tage protecti on	Und ervol tage protecti on	Unbalance protection	Phase sequence protection	Phase failure protection
NJYB3-1							•	
NJYB3-2	•			(1.05~1.3)×Ue				•
NJYB3-3					(0.7~0.95)×Ue			
NJYB3-4	•			(1.05~1.3)×Ue	(0.7~0.95)×Ue			•
NJYB3-5	٠			(1.05~1.3)×Ue	(0.7~0.95)×Ue		•	
NJYB3-6				(1.05~1.3)×Ue	(0.7~0.95)×Ue	Fixed 20%	•	•
NJYB3-7	۲			Fixed 120%×Ue	Fixed 80%×Ue	5%~15%	•	
NJYB3-8				(1.05~1.3)×Ue	(0.7~0.95)×Ue	5%~15%		•
NJYB3-9			•	(1.05~1.3)×Ue				
NJYB3-10			•		(0.7~0.95)×Ue			
NJYB3-11			•	(1.05~1.3)×Ue	(0.7~0.95)×Ue			
NJYB3-12				(1.05~1.3)×Ue	(0.7~0.95)×Ue		•	•
NJYB3-13				(1.05~1.3)×Ue	(0.7~0.95)×Ue	Fixed 20%	•	
NJYB3-14				Fixed 120%×Ue	Fixed 80%×Ue	5%~15%	•	•
NJYB3-15				(1.05~1.3)×Ue	(0.7~0.95)×Ue	5%~15%	•	•
NJYB3-16								

Note: \bullet denotes available functions, \bigcirc denotes optional functions.

Immunity

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

4. Wiring diagram

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





