NJYB1 Phase-Failure and Phase-Sequence Protection Relay

1. General

This product is used in AC 50Hz three-phase four-wire 220V circuit to control the overvoltage,under-voltage,phase failure,phase sequence.

2. Type designation

2.1 Model and meaning

N J YB 1

- 1 — Design No.
- YB — Voltage protection
- J — Relay
- N — Corporation Code

2.2 Technical parameters

2.2.1 Fundamental parameter

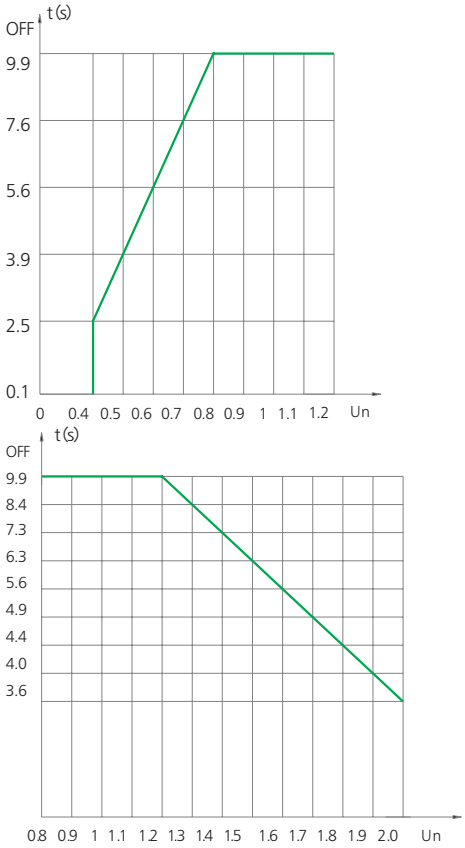
a. Overvoltage protection: (1.0-1.3) Ue; undervoltage protection: (0.7-1.0) Ue.
b. Fault protection time: 0.1～9.9s.
c. Dielectric strength: there is no breakdown and flicker appeared for alternating current (50Hz) lasting a period of time of 1 s. under 2000V.
d. Insulation resistance: ＞100M (relative humidity at 20℃ is 90%).
e. Contact capacity: AC-15 220V 1A.
f. Contact resistance: 0.03Ω.
g. Contact life: life should ≥100, 000times.
h. Ambient temperature: -10℃～ +50 ℃.
i. Ambient humidity: ≤8% (20℃±5℃).
j. Installation mode: 35mmlC guide rail installation

2.3 Performance feature

S.N.	Fault type	Reacting time		Ambient air humidity
		Specified time	Inverse time	
1	Overvoltage protection	(0.1～9.9)s	$Tr = (Uon/Ur)^2 \times Tn$	Room temperature
2	Undervoltage protection	(0.1～9.9)s	$Tr = (Ur/Uun)^2 \times Tn$	
3	Phase-Failure protection	≤0.1s		
4	Phase-sequence protection	≤0.1s		

2.4 Time -voltage feature of voltage protector

Time-voltage feature of voltage protector



Note: 0.8Un is the preset normal voltage protection range, when delaying, it is 9.9s.

3. Wiring diagram

Wiring diagram for voltage protector