

Electro-mechanical Inverse Definite Minimum Time relays operating on the induction disc principle offer a reliable, long term protection, that imposes no standing drain on substation battery supplies. Their operation is easy to understand, they are easy to test and maintain and have an extremely long service life. Experience gained in the manufacture and application of induction disc relays has resulted in the development of the 2TJM10 series which continue to have the reduced temperature error and increased accuracy within that allowed by BS 142, which was a feature of the TJM10. The new series incorporates a number of assembly improvements, introduces better moulding materials while retaining, unchanged, the TJM magnetic circuit. In particular 2TJM relays are designed to comply with BS 142 Sections 2.2(1990) and 3.2(1990) and to the IEC 255 series specifications where applicable.

All characteristics are available:

2TJM10 series	Normal inverse, form 3/10.
2TJM20 series	Very inverse.
2TJM30 series	Extremely inverse.
2TJM60	Long time inverse, form 5/30.
2TJM70 series	Normal inverse, form 1.3/10.

APPLICATION - 2TJM10

The operating time characteristic based on the normal inverse characteristic of IEC 255-4, BS 142, 3.2.

$$\text{Time } t = \frac{k}{\left(\frac{I}{I_s}\right)^{\alpha} - 1}$$

This is the most generally applied of all the characteristics in time/current graded schemes. It can be used as overcurrent and earth fault protection, as a back-up protection in EHV schemes and also as standby earth fault protection on solidly earthed systems.

DESCRIPTION

Six versions of the normal inverse relay are available:

- 2TJM10 Basic IDMT.
- 2TJM11 Basic IDMT + High-set (MCAA).
- 2TJM12 Directional IDMT (Basic IDMT + ES).
- 2TJM16 Directional IDMT + High-set.
- 2TJM17 Basic IDMT + high-set for a.c. series tripping.
- 2TJM18 Basic IDMT for a.c. series tripping.

DESCRIPTION 2TJM10

The relay comprises a die-cast frame which carries all the sub-assemblies; ie, induction disc and electro-magnetic system, operating coil and plug bridge and the contact assembly.

The electro-magnetic system comprises primary and secondary magnets arranged with four air gaps each contributing to the driving torque. The primary magnet is energised by the primary coil which is tapped so that the required fault setting can be made. Tappings are selected from the plug-bridge which automatically short circuits the coil windings as the setting plug is withdrawn. A second winding is energised by the primary coil and serves to energise the secondary magnet.



Moving and fixed contacts, the contact operating arm and the flag indicator are carried on a single moulding and form a complete sub-assembly. Two normally open contacts are provided of the bridging type, the operating arm being driven from a cam track at the hub of the induction disc. This gives considerable mechanical advantage at the instant of contact touch and ensures high contact pressures even at low operating current levels making the contacts suitable for direct tripping without series or shunt repeat relays. A flag indicator is released which shows a high luminance red indicator.

Relay operating time is determined by the starting position of the induction disc; this is set by the time multiplier dial calibrated from 0.1 to 1.0, there is also a mark identified by a "T" lower than the 0.1 setting; this position is the contact touch position where the contacts are held closed.

Settings are applied in amps following the instructions printed on the relay label which are in the form:

$$I_s = I_n \times M1 \times M2$$

where,

I_s = Set current.

I_n = Relay nominal current rating.

M1 = Plug setting.

M2 = A marked multiplying factor.

DESCRIPTION 2TJM11

An instantaneous high-set element type MCAA is included with its operating coil connected in series with the IDMT operating coil. Current setting is by a calibrated continuously variable cam and a plug bridge with x1 and x2 positions providing an overall 4:1 setting ratio. A protection lockout setting, "L", where the contacts are held open is also provided.

Reyrolle Tjm10 Manual

Jiyuan Zhang



Reyrolle Tjm10 Manual:

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