CE

LT 1005-S/SP8

Définition

Le «LT 1005-S/SP8» est un capteur conçu pour la mesure électronique des courants : DC, AC, IMPL., etc., avec une isolation galvanique entre le primaire (courant fort) et la mesure (circuit électronique).

Caractéristiques électriques

Courant nominal I_N	**: 1000 A eff.**
Plage de mesure	**: 0 à ± 1500 A**
Résistance de Mesure	**: R_M min. R_M max.**
avec ± 24 V à ± 1000 A max.	**: 0 ohm 65 ohms**
à ± 1500 A max.	**: 0 ohm 20 ohms**
Courant de sortie analogique nominal	**: 200 mA**
Rapport de transformation	**: 1 : 5000**
Précision globale à +25°C	**: ± 0,4 % de I_N**
Tension d'alimentation	**: + et - 24 V (± 10 %)**
Tension d'essai diélectrique	**: entre primaire et secondaire + test : 6 kV eff./50Hz/1 min.**
	: entre secondaire et test : 100 V eff./50Hz/1 min.
Tension de dimensionnement U_b	**: 1750 V crête, séparation sûre, classe de pollution 2 - voir [1] et [2] -**
(DIN VDE 0160)	**: 3500 V crête, isolation de base, classe de pollution 2 - voir [1] et [2] -**

Précision - Performances dynamiques

Courant d'offset à courant primaire nul à 25°C	: max. ± 0,4 mA
Dérive en température du courant d'offset	: typique ± 0,2 mA
(entre -25°C à +70°C)	max. ± 0,4 mA
Linéarité	: inférieure à 0,1 %
Temps de retard	: inférieur à 1 µs
dI/dt correctement suivi	: supérieur à 50 A/µs
Bande passante	: 0 à 150 kHz (-1dB)

Circuit de test

Nombre de spires	: 1000
Résistance interne	: 70 ohms (à +70°C)
Courant de test	: 0,1 A

Caractéristiques générales

Température de service	: de -25°C à +70°C
Température de stockage	: de -40°C à +85°C
Consommation	: 30 mA + courant de mesure
Résistance interne secondaire	: 47 ohms (à +70°C)
Exécution	: moulé dans un boîtier injecté en matière isolante autoextinguible
Poids	: 600 g
Fixation	: par 4 trous pour vis Ø 6,5 mm, entre-axes 70 x 70 mm
Connexion du circuit primaire	: trou de passage octogonal, passage horizontal et vertical 40,5 mm
circuit secondaire	: sur 5 cosses Faston 6,3 x 0,8 mm
Sens du signal sortie/entrée	: un courant de mesure positif est obtenu sur la borne M, lorsque le courant primaire circule dans le sens de la flèche.

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Conformité aux normes

: - DIN VDE 0160
- CEI 801.3

Particularités

: - alimentation + et - 24 V (± 10 %)
- enroulement de test 1000 spires
- température de service -25°C à +70°C.
- moulé
- matériel féroviaire.

Notes : [1] Avec une barre primaire non isolée qui remplit le trou de passage.

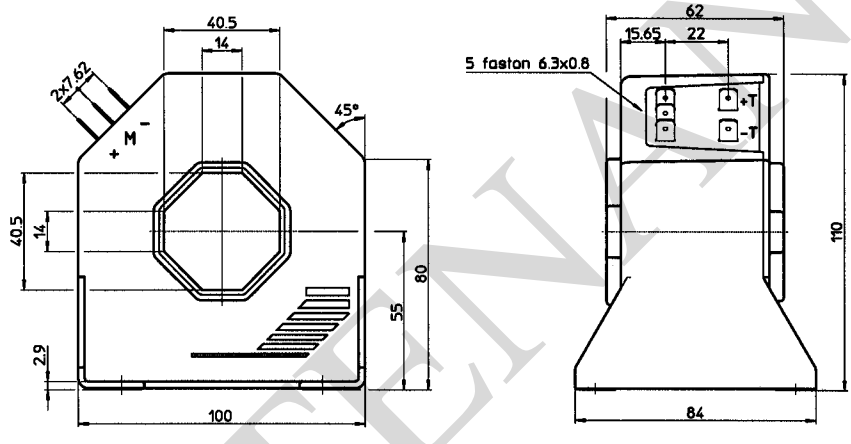
[2] Selon DIN VDE 0160, la valeur de la tension d'essai U_p est calculée comme suit :

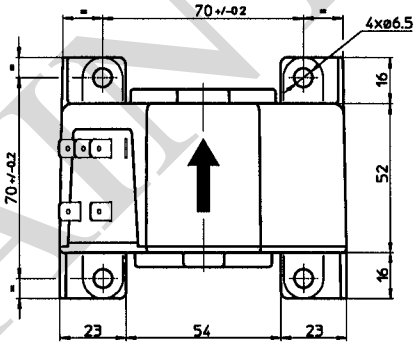
$$\text{Up eff.} = \left(\frac{U_b}{\sqrt{2}} \text{x} 1{,}5\right) + 750 \text{ V, Freq. 50 Hz, durant 5 s.}$$

Remarques : - La température du conducteur primaire ne doit pas dépasser 100°C.
- Les performances dynamiques (temps de réaction et di/dt) sont les meilleures avec une barre primaire qui remplit parfaitement le trou de passage.

Dimensions LT 1005-S/SP8

Tolérance générale ± 0,5 mm

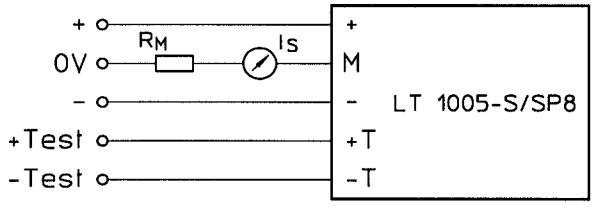




Branchement :

Borne +	: alimentation + 24 V
Borne M	: mesure
Borne -	: alimentation - 24 V
Borne +T	: enroulement de test +
Borne - T	: enroulement de test -

Raccordement



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