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Protection equipment, which adopts neutralization coil and insulation coil

Based on "Japan-standard for electric power D-205, telecommunication protector used in the field of electric power" (for telecommunication cables), established July 1971 (Revised December 1980) and "Regulation of telecommunication for protection of electric power in Japan", established February 1977 (Revised December 1984). Various requirements for installation in the systems of information transmission are satisfied and highly reliable protection performance is equipped.

- To prevent the rise of electric potential caused by commercial frequency voltage and lightning surge neutralization coil and insulation coil are used and high protection performance can be maintained.
- Corresponding to the sort of using circuit various circuit constructions are available.
- Highly reliable gas-filled arrester with high current capacity is used.
- The structure of the equipment consists of the units equipped with gas-filled arrester, terminal board etc. located in the front of the unit. Therefore the maintenance can be done easily.
- Japan-standard for electric power D-205 is satisfied.

S- [] DC, S- [] AC



S- [] DC-VR	Corresponds to general telephone line
S- [] DC-CVR	Corresponds to carrier transmission line overlapped by DC-voltage
S- [] DC-PCM	Corresponds to PCM carrier transmission line overlapped by DC-voltage
S- [] DC-INT	Corresponds to ISDN-line
S- [] AC-VR	Corresponds to AC-signal (Telecontrol) line
S- [] AC-CV	Corresponds to carrier transmission line not overlapped by DC-voltage

Warning in the installation

In case of installation of this equipment in the electric station the following points must be taken care of;

- For external cable and grounding wires in the distance the insulated cable corresponding to the value of rising electric potential should be used.
- For the grounding wire in the distance and in the station the insulated wire with section area more than 22 ml should be used. Besides Al-sheathe of the external cable have to be connected with the grounding terminal in the distance, and Al-sheathe of cables laid in the station have to be connected with the grounding terminal in the station.
- In the case that area of the station and station yeard are large and the telecommunication equipment installed and the laid conditions of cables may be affected by lightning surge or switching surge, protection equipment should be installed also to the MDF etc. in the room for the telecommunication equipments.

Specification

Type-name		S- [] DC-VR	S- [] DC-CVR	S- [] DC-PCM	S- [] DC-INT	S- [] AC-VR	S- [] AC-CV
Application		Public · DC-signal · Telecomm-line	DC-signal · carrier transmission line	PCM carrier transmission line	ISDN line	AC-signal · telecomm-line	AC-signal · carrier transmission line
Transmission performance	Transmission frequency band (Hz)	DC, 16, 0.3~3.4k	DC, 16, 0.3 ~ 160k	DC, 50k~2M	DC, 10k~2M	16, 0.3 ~ 3.4k	0.3~160k
	Transmission level	+ 10dBm		4Vo-p	+ 10dBm		
	Impedance (Ω)	600 ± 20%	150 ± 20%	110 ± 20%	110 ± 20%	600 ± 15%	150 ± 20%
	DC resistance (one side of the line) (Ω)	less than 60	less than 20	less th	nan 60 -		-

Note: In the [] of type-name the value of commercial voltage withstanding is indicated.

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