

OUTDOOR CURRENT TRANSFORMER - J..C.. SERIES



JCD



JCV



JCY

- **Outdoor**
- **7.2 - 12 - 17.5 - 24 - 36 - 52kV**
- **Primary current from 0 to 2500 A**
- **I_{th} up to 1000 I_{pn} or 100kA.1s**
- **Dry insulation in epoxy resin**
- **Up to 4 independent cores**
- **Maintenance free**

Current transformers vacuum moulded in self extinguishing epoxy resin for the measure of AC currents from 0 up to 2500A.

This comprehensive and compact range of current transformers has been designed to meet the requirements of MV switchgear manufacturers.

It allows for double ratios up to 600-1200 A, and offers up to 4 independent cores.

Technical data

Rated insulation level	7.2/20/60 kV to 52/95/250 kV
Primary current I _{pn}	Up to 2500 A
Secondary current I _{sn}	5 or 1 A
Frequency	50 or 60 Hz
Rated output	1 to 100 VA
Accuracy class	0.1 - 0.2 - 0.2S - 0.5 - 0.5S - 1 - 3 - 5P 10P - CLX - CLPX
Security factor	From 5 to 10
Accuracy limit factor	5 - 10 - 15 - 20 - 30
Continuous thermal current	1.2 I _{pn}
Short-time thermal current I _{th}	Up to 1000 I _{pn} or 100 kA.1s
Dynamic current I _{dyn}	2.5 I _{th}
Surface finish	Polyurethan coating
Insulation class	E
Ambient temperature	- 5°C to + 40°C
Standards	IEC - IEEE - CSA - AS - BS - UNE

Other characteristics on request

Power-frequency withstand voltage	Up to 75 kV
Double ratio	5-10 to 600-1200A by primary change-over
Secondary current I _{sn}	0.005 to 10 A
Accuracy class	CL TPS
Continuous thermal current	1.5 I _{pn} - 2 I _{pn}
Multiple cores	Up to 4
Ambient temperature	- 25°C to + 70°C

Accessories / Options

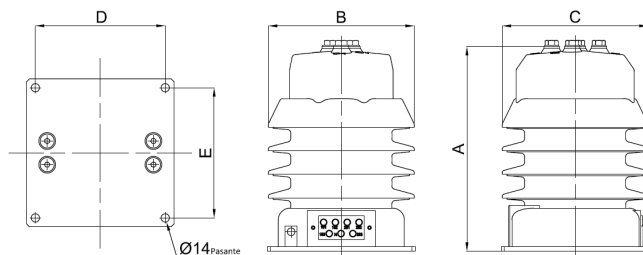
Fixing plate	Standard
Surface finish	Silicone coating
Sealable cover for secondary terminal (IP65)	Standard
Earth connector	Option

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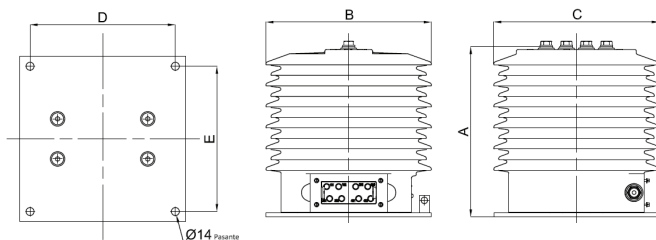
Selection table and dimensions

Type	Un Up to (kV.)	Weight kg	A mm	ØB mm	C mm	D mm	E mm	Creep. mm
J7CD	7.2/20/60	24	342	247	247	220	220	563
J7CR	7.2/20/60	43	340	330	330	290	290	778
J7CT	7.2/20/60	30	468	247	247	220	220	915
J7CS	7.2/20/60	35	608	270	270	220	220	1174
J7CY	7.2/20/60	80	477	330	436	290	290	1155
J7CYA	7.2/20/60	85	516	330	436	290	290	1341
J7CV	7.2/20/60	155	724	374	513	286	286	1612
J12CD	12/28/75	24	342	247	247	220	220	563
J12CR	12/28/75	43	340	330	330	290	290	778
J12CT	12/28/75	30	468	247	247	220	220	915
J12CS	12/28/75	35	608	270	270	220	220	1174
J12CY	12/28/75	80	477	330	436	290	290	1155
J12CYA	12/28/75	85	516	330	436	290	290	1341
J12CV	12/28/75	155	724	374	513	286	286	1612
J17CD	17.5/38/95	24	340	330	330	290	290	563
J17CR	17.5/38/95	43	340	330	330	290	290	778
J17CT	17.5/38/95	30	468	247	247	220	220	915
J17CS	17.5/38/95	35	608	270	270	220	220	1174
J17CY	17.5/38/95	80	477	330	436	290	290	1155
J17CYA	17.5/38/95	85	516	330	436	290	290	1341
J17CV	17.5/38/95	155	742	374	513	286	286	1612
J24CD	24/50/125	24	342	247	247	220	220	563
J24CR	24/50/125	43	340	330	330	290	290	778
J24CT	24/50/125	30	468	247	247	220	220	915
J24CS	24/50/125	35	608	270	270	220	220	1174
J24CY	24/50/125	80	477	330	436	290	290	1155
J24CYA	24/50/125	85	516	330	436	290	290	1341
J24CV	24/50/125	155	724	374	513	286	286	1612
J36CT	36/70/170	30	468	247	247	220	220	915
J36CS	36/70/170	35	608	270	270	220	220	1174
J36CY	36/70/170	80	477	330	436	290	290	1155
J36CYA	36/70/170	85	516	330	436	290	290	1341
J36CV	36/70/170	155	724	374	513	286	286	1612
J52CV	52/95/250	155	724	374	513	286	286	1612

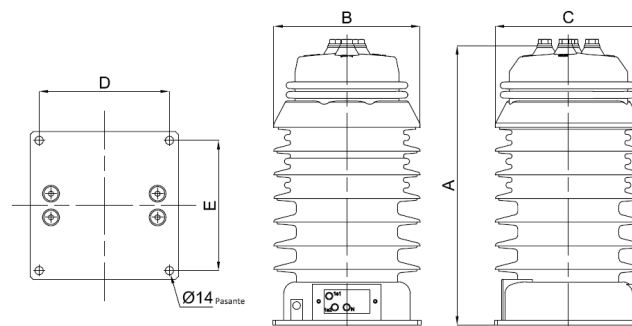
JCD



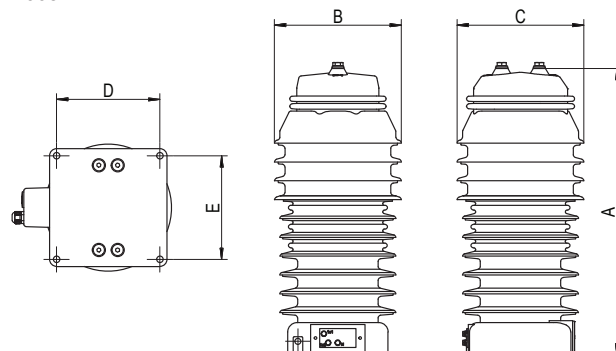
JCR



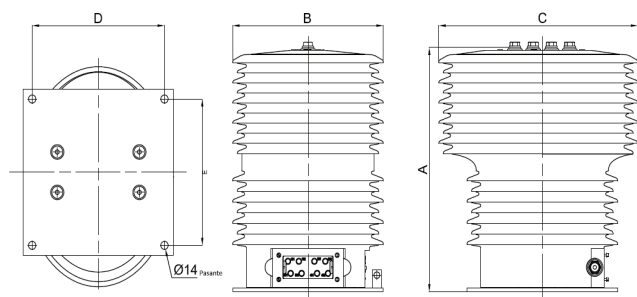
JCT



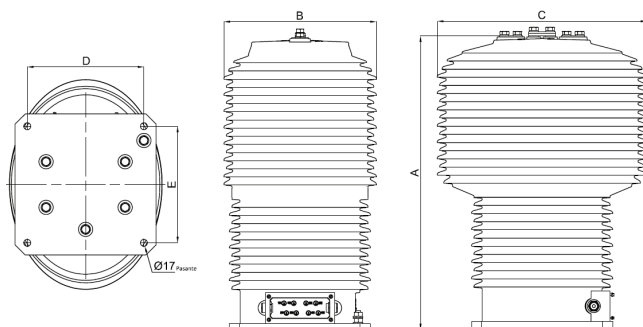
JCS



JCY / JCYA



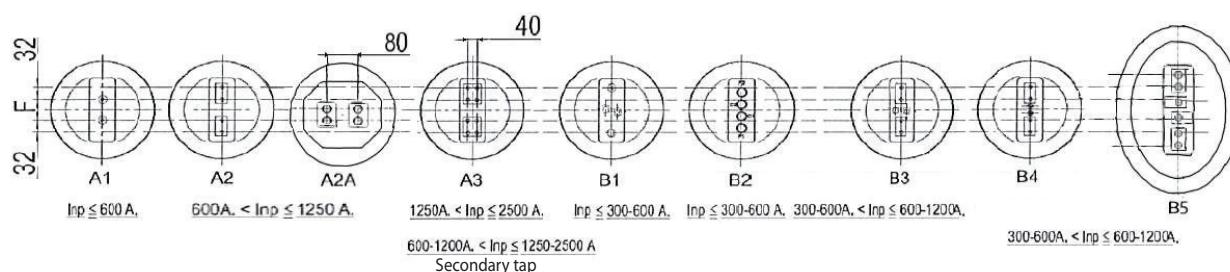
JCV



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Primary terminals

Type	Single ratio primary				Double ratio primary				
	0...600A	600...1250A	1250...2500A		Up to 300-600A	Up to 300-600A	Up to 600-1200A	Up to 600-1200A	Up to 600-1200A
	F mm	F mm	F mm	F mm	F mm	F mm	F mm	F mm	F mm
JCD	80	-	-	-	80	-	-	-	-
JCR	120	120	120	120	-	120	-	120	-
JCT	80	-	-	-	80	-	-	-	-
JCS	80	-	-	-	80	-	-	-	-
JCY	120	120	120	120	-	120	-	120	120
JCYA	120	120	120	120	-	120	-	120	120
JCV	-	120	-	-	-	-	-	120	-
	A1	A2	A2A	A3	B1	B2	B3	B4	B5



Installation

- This current transformer can be fixed in any position.
- Tightening torque for primary terminals 35 N.m
- Primary terminals M12x23 useful depth.
- Tightening torque for secondary terminals : M6 :4 N.m
- Never leave the secondary circuit of a current transformer open when voltage is applied to the transformer. High voltages may appear at the secondary circuit terminals, which can be dangerous to personnel and may result in the destruction of the current transformer.
- This current transformer is maintenance free.

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