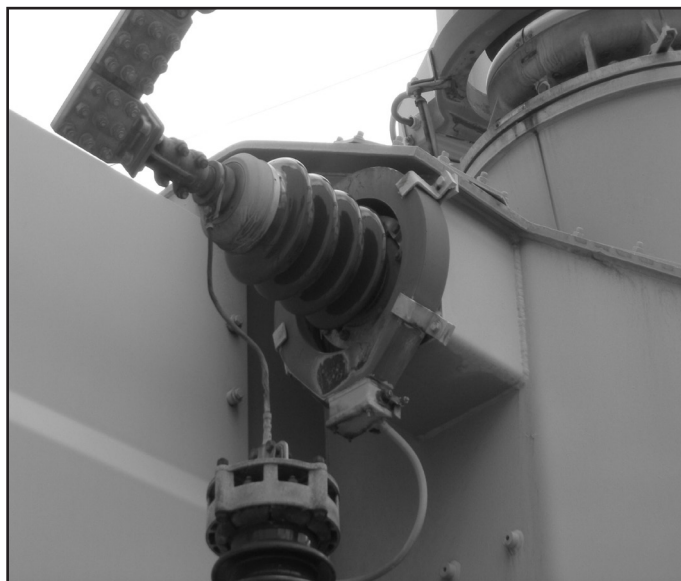


CURRENT TRANSFORMER - ORF SERIES



ORFE 1000-80-1200



ORFE 275-75-440

- Indoor or outdoor
- Inner Ø from 165 up to 1000 mm
- Up to 4 cores
- Any protection class
- Adaptability, modularity

These ring type current transformers are available for indoor or outdoor use. They are designed to meet the requirements for metering and protection duties of :

- power transformers and auto-transformers
- HV or MV wall bushings
- GIS substation
- IPB
- Homopolar detection in neutral connections

The secondary terminals are accessible either directly in the case of indoor equipment (ORF) or through a watertight terminal box or a watertight plastic cover (ORFE or ORF - - - W) in the case of outdoor application.

As per customer's requirement, secondary windings can integrate time constant constraints.

Technical data

Highest voltage for equipment	0.72 kV
Power-frequency withstand voltage	3 kV
Rated primary current I_{pn}	50 to 10 000 A
Rated secondary current I_{sn}	5 or 1 A
Rated frequency	50 Hz or 60 Hz
Network nominal voltage	0.75 - 20 - 72.5 - 100 - 245 -... to 1000kV
Rated output	Up to 500 VA
Accuracy class	0.2 - 0.2S - 0.5 - 0.5S - 1 - 5P - 10P
Accuracy factor	5 - 10 - 15 - 20 - 30
Continuous thermal current	1.2 I_{pn}
Short-time thermal current	80 I_{pn}
Dynamic current I_{dyn}	2.5 I_{th}
Inner diameter	165 to 1000 mm
Ambient temperature	-25°C to + 40°C
Insulation material	Cast resin
Insulation class	E
Fixing clamps	Galvanized steel
Standards	IEC - IEEE - CSA - AS - BS

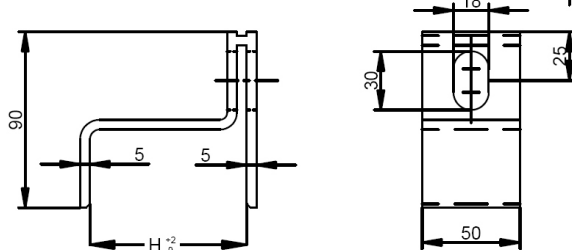
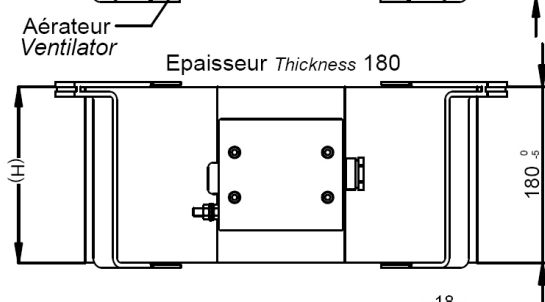
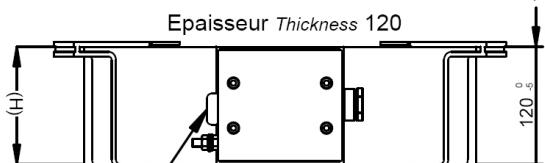
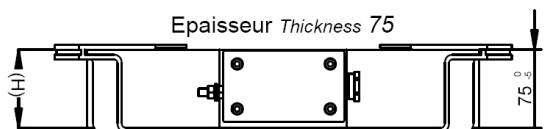
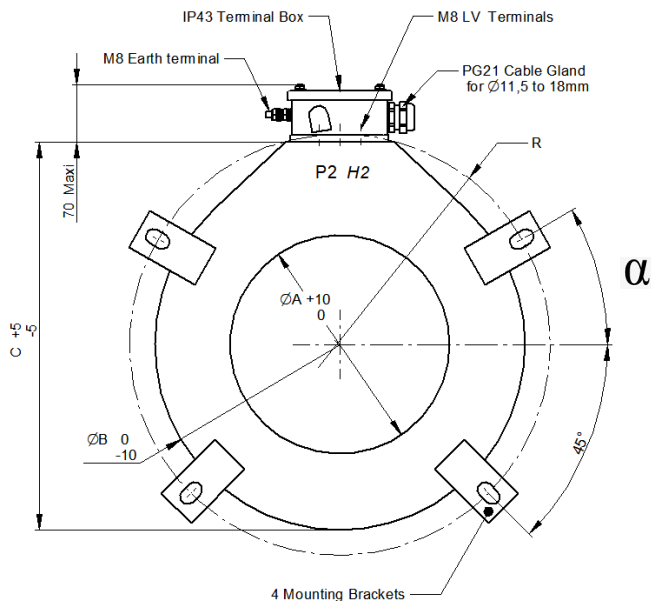
Other characteristics on request

Highest voltage for equipment	2 kV
Power-frequency withstand voltage	6 kV
Multi-ratio	By secondary tapping
Accuracy class	PX, PXR, PR, TPS, TPX, TPY, TPZ
Ambient temperature	- 40°C to + 70°C

Accessories / Options

Watertight terminal box with cable gland IP43	Supplied on outdoor ORFE serie Optional on indoor ORF
Watertight plastic cover IP54	As standard on outdoor ORFEW Optional on indoor ORF
Fixing clamps	Stainless steel on request
Earth terminal	On request
Voltage limiter	On request
Filtering capacitor	On request

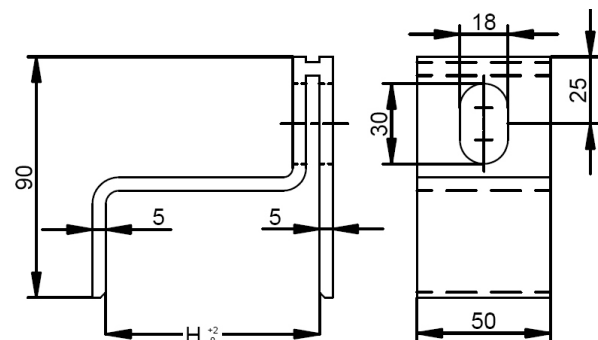
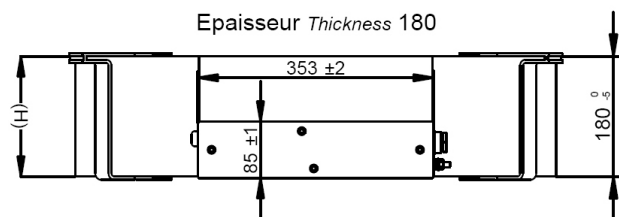
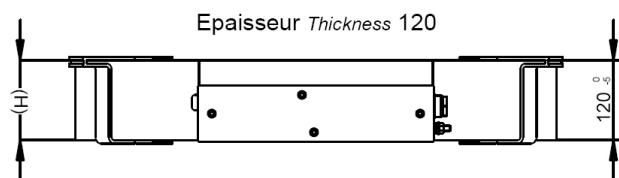
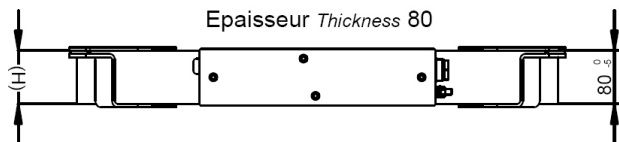
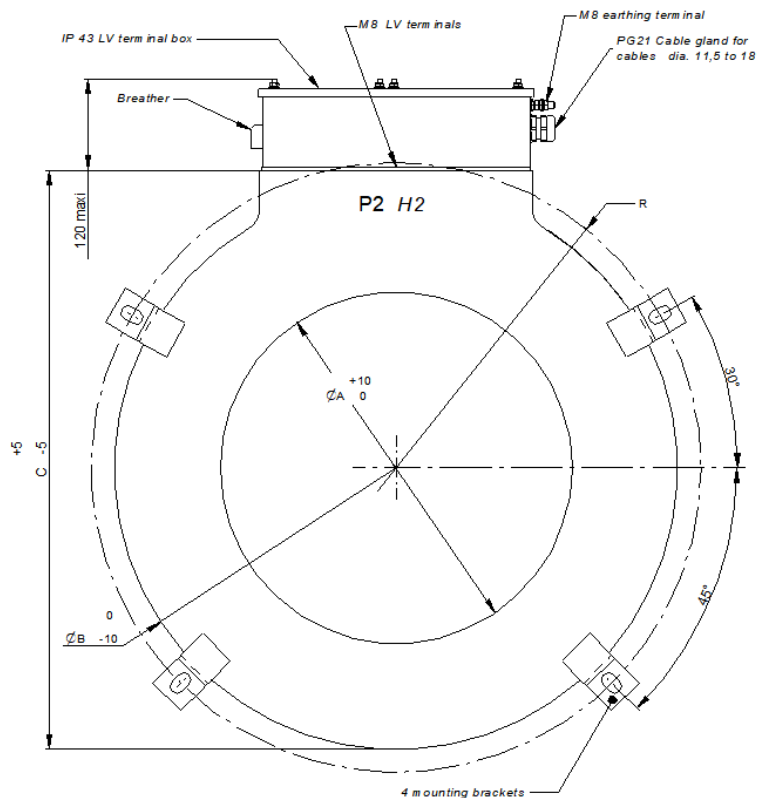
CURRENT TRANSFORMER - ORF SERIES



Pattes fournies sur demande.
Fixing brackets supplied on request

Model	Ø A mm	Ø B mm	C mm	R mm	α °	Weight kg	H mm
ORF 165-75-330	165	330	350	195	30	20	75
ORF 165-75-360	165	360	380	210	30	20	75
ORF 210-75-400	210	400	420	230	45	20	75
ORF 240-75-400	240	400	420	230	45	20	75
ORF 240-75-440	240	440	460	250	45	30	75
ORF 260-75-440	260	440	460	250	45	30	75
ORF 260-75-490	260	490	510	275	45	40	75
ORF 275-75-440	275	440	460	250	45	20	75
ORF 275-75-490	275	490	510	275	45	30	75
ORF 300-75-490	300	490	510	275	45	30	75
ORF 300-75-520	300	520	540	290	45	40	75
ORF 350-75-520	350	520	540	290	45	30	75
ORF 390-75-610	390	610	630	335	45	40	75
ORF 450-75-610	450	610	630	335	45	40	75
ORF 450-75-690	450	690	720	375	45	50	75
ORF 505-75-690	505	690	720	375	45	40	75
ORF 550-75-730	550	730	750	395	45	50	75
ORF 550-75-800	550	800	820	430	45	70	75
ORF 258-80-360	258	360	380	420	30	15	80
ORF 258-120-360	258	360	380	420	30	25	120
ORF 165-120-330	165	330	350	195	30	30	120
ORF 165-120-360	165	360	380	210	30	30	120
ORF 210-120-400	210	400	420	230	45	40	120
ORF 240-120-400	240	400	420	230	45	30	120
ORF 240-120-440	240	440	460	250	45	50	120
ORF 260-120-440	260	440	460	250	45	40	120
ORF 260-120-490	260	490	510	275	45	60	120
ORF 275-120-440	275	440	460	250	45	40	120
ORF 275-120-490	275	490	510	275	45	50	120
ORF 300-120-490	300	490	510	275	45	50	120
ORF 300-120-520	300	520	540	290	45	60	120
ORF 350-120-520	350	520	540	290	45	50	120
ORF 390-120-610	390	610	630	335	45	70	120
ORF 450-120-610	450	610	630	335	45	60	120
ORF 450-120-690	450	690	720	375	45	80	120
ORF 505-120-690	505	690	720	375	45	60	120
ORF 550-120-730	550	730	750	395	45	80	120
ORF 550-120-800	550	800	820	430	45	110	120
ORF 165-180-330	165	330	350	195	30	40	180
ORF 165-180-360	165	360	380	210	30	50	180
ORF 210-180-400	210	400	420	230	45	60	180
ORF 240-180-400	240	400	420	230	45	50	180
ORF 240-180-440	240	440	460	250	45	70	180
ORF 260-180-440	260	440	460	250	45	60	180
ORF 260-180-490	260	490	510	275	45	90	180
ORF 275-180-440	275	440	460	250	45	60	180
ORF 275-180-490	275	490	510	275	45	80	180
ORF 300-180-490	300	490	510	275	45	70	180
ORF 300-180-520	300	520	540	290	45	90	180
ORF 350-180-520	350	520	540	290	45	80	180
ORF 390-180-610	390	610	630	335	45	110	180
ORF 450-180-610	450	610	630	335	45	90	180
ORF 450-180-690	450	690	720	375	45	130	180
ORF 505-180-690	505	690	720	375	45	100	180
ORF 550-180-730	550	730	750	395	45	120	180
ORF 550-180-800	550	800	820	430	45	170	180

CURRENT TRANSFORMER - ORF SERIES



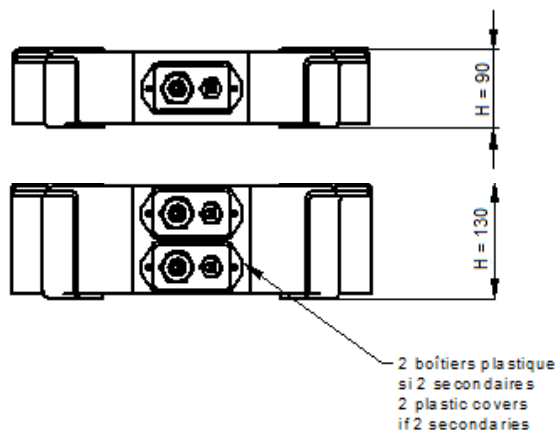
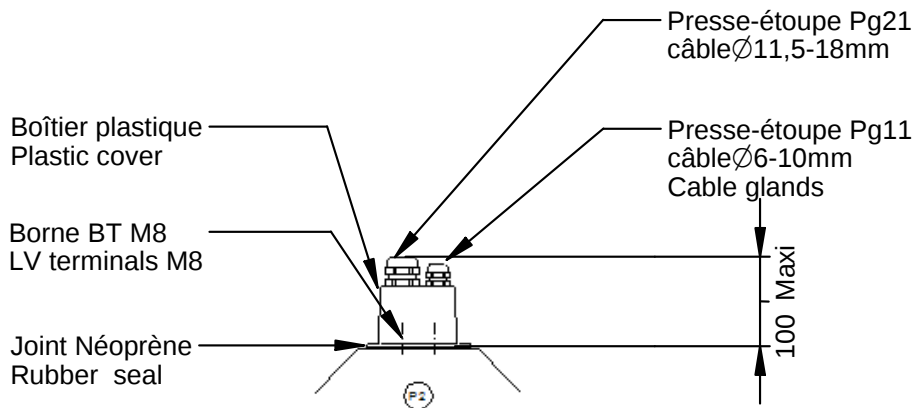
Pattes fournies sur demande.
Fixing brackets supplied on request

Model	$\varnothing A$ mm	$\varnothing B$ mm	C mm	R mm	Weight kg	H mm
ORF 315-80-480	315	480	500	270	35	80
ORF 315-80-600	315	600	620	330	65	80
ORF 450-80-600	450	600	620	330	35	80
ORF 450-80-720	450	720	740	390	85	80
ORF 550-80-720	550	720	740	390	50	80
ORF 700-80-860	700	860	880	460	55	80
ORF 715-80-980	715	980	1000	520	120	80
ORF 1000-80-1300	1000	1300	1320	680	180	80
ORF 315-120-480	315	480	500	270	55	120
ORF 315-120-600	315	600	620	330	120	120
ORF 450-120-600	450	600	620	330	60	120
ORF 450-120-720	450	720	740	390	145	120
ORF 550-120-720	550	720	740	390	85	120
ORF 700-120-860	700	860	880	460	95	120
ORF 715-120-980	715	980	1000	520	200	120
ORF 1000-120-1300	1000	1300	1320	680	310	120
ORF 315-180-480	315	480	500	270	85	180
ORF 315-180-600	315	600	620	330	190	180
ORF 450-180-600	450	600	620	330	95	180
ORF 450-180-720	450	720	740	390	230	180
ORF 550-180-720	550	720	740	390	140	180
ORF 700-180-860	700	860	880	460	150	180
ORF 715-180-980	715	980	1000	520	320	180
ORF 1000-180-1300	1000	1300	1320	680	500	180

CURRENT TRANSFORMER - ORF SERIES

Option «Watertight plastic cover»
(mounted instead of the watertight terminal box)

ORFE - - - W



Installation :

- Tightening torque for secondary terminals M8 : 7 Nm.
- Caution ! Never leave the secondary circuit open while the primary conductor is energized. High voltages might surge at secondary terminals, which might be hazardous for people and destroy the current transformer.