

Designed for marine high temperature environment

BENEFITS:

- electrical stability and reliability
- tested before shipment
- durable design, low weight
- high efficiency

CERTIFICATES:

- transformers are made according to CE regulations
- any marine certificate on request

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Date of establishment: 1992



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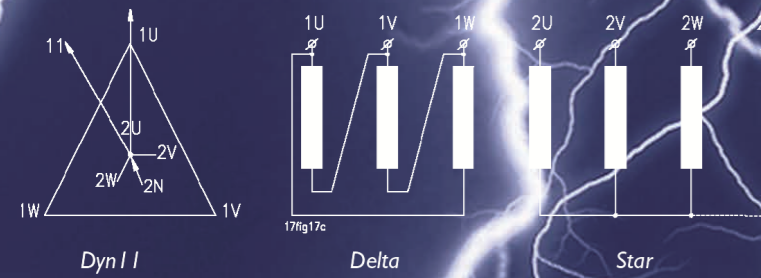
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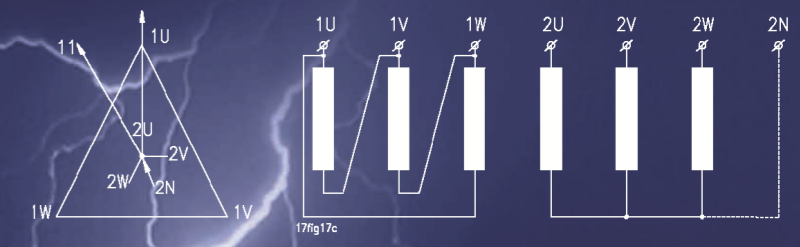
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RAY - MARINE TRANSFORMER

copper or aluminium



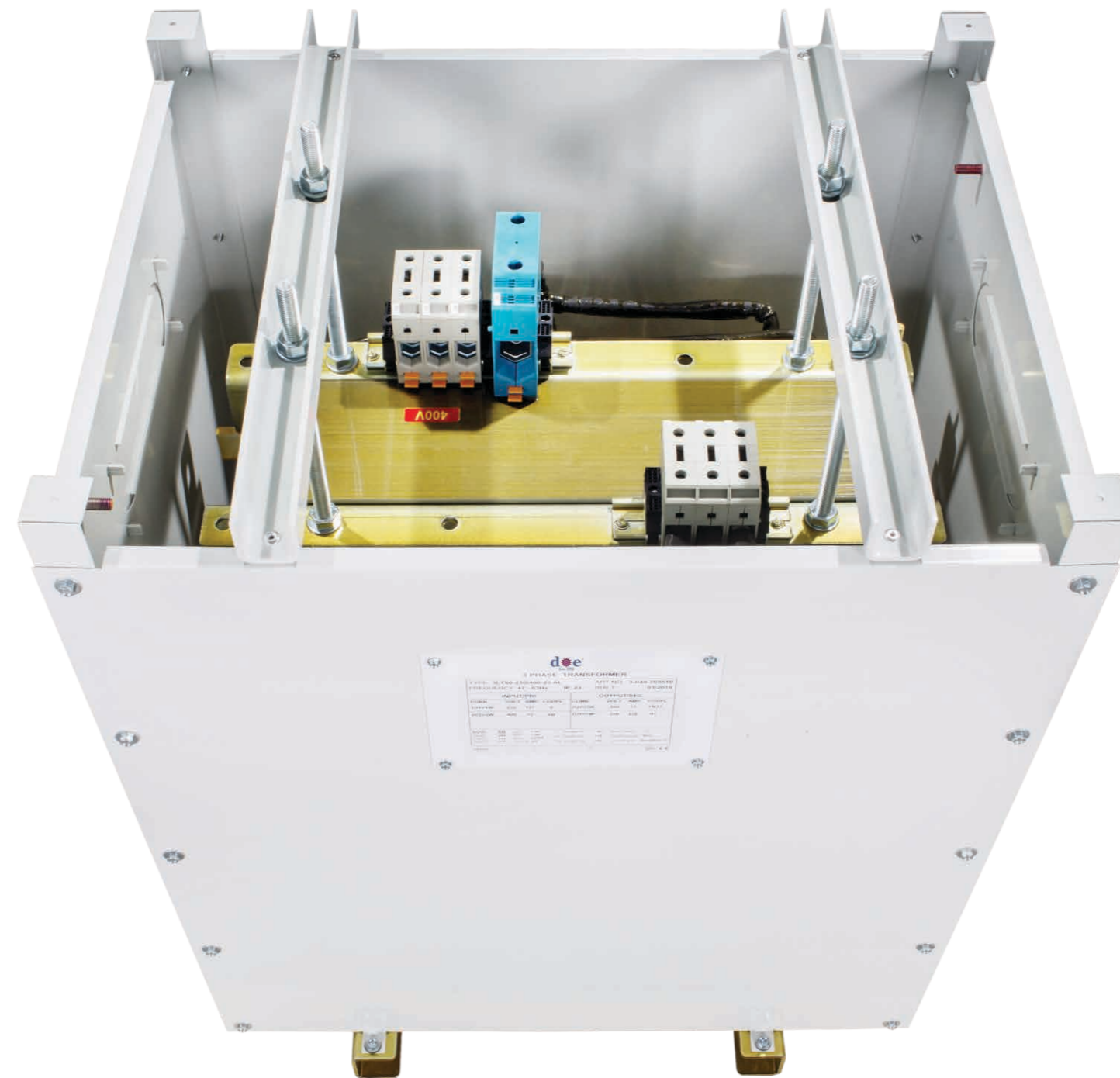
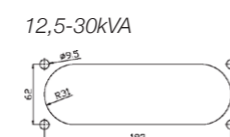
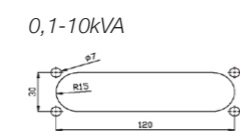
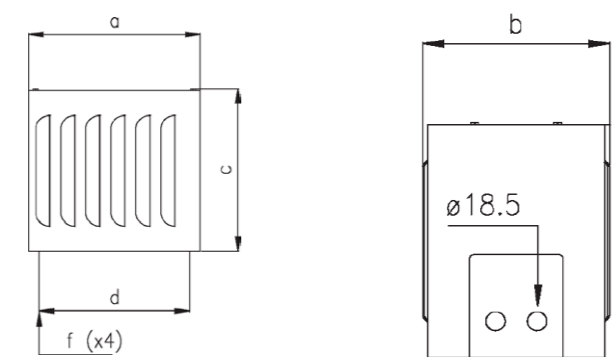
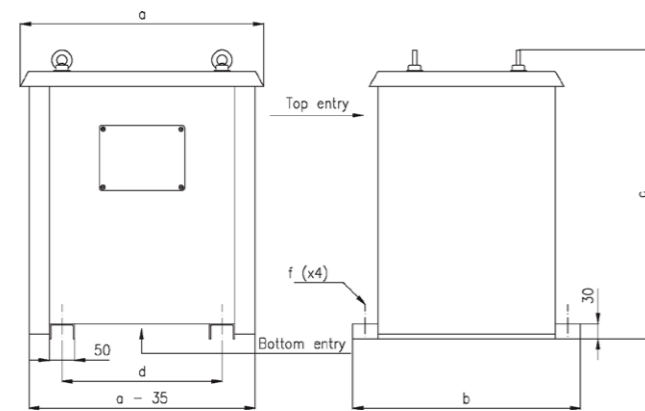
RAY 3 - 30 kVA

RAY 1,25 - 30kVA

Primary voltage [V]	3x400, 2x230 (standard) 3x115 - 3x1000V (option)
Secondary voltage [V]	3x400, 2x230 (standard) 3x115 - 3x1000V (option)
frequency [Hz]	50 or 60 - other on request
ambient temperature [°C]	45
protection degree	IP 23 - higher on request
insulation class	B (130°C), F (155°C)
class	EN61558-2-4 + any marine certificate possible (DNV, Lloyd, Rina, RMRS, BV, ABS and more)

Type	Power [kVA]	A	B	C	D	F	Weight [kg]
RAY3	3	343	320	431	200	12	38
RAY3,5	3,5	377	350	461	224	12	39
RAY4	4	377	350	461	224	12	45
RAY5	5	377	350	461	224	12	50
RAY6,3	6,3	427	400	515	264	15	63
RAY8	8	427	400	515	264	15	73
RAY10	10	427	400	515	264	15	83
RAY12,5	12,5	481	450	590	316	15	96
RAY16	16	481	450	590	316	15	122
RAY20	20	481	450	590	316	15	148
RAY25	25	599	550	630	356	15	170
RAY30	30	599	550	630	356	15	212

other executions available upon request



RAY 40 - 2000 kVA

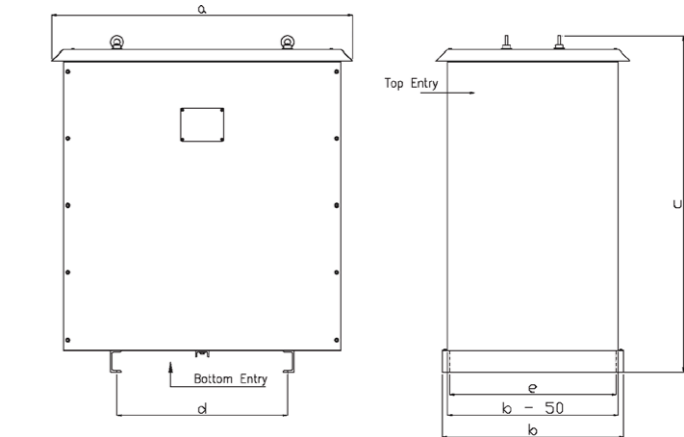
RAY 40 - 2000 kVA

Primary voltage [V]	3x400, 2x230 (standard) 3x115 - 3x1000V (option)
Secondary voltage [V]	3x400, 2x230 (standard) 3x115 - 3x1000V (option)
frequency [Hz]	50 or 60 - other on request
ambient temperature [°C]	45
protection degree	IP 23 - higher on request
insulation class	F (155°C), H (180°C)
class	IEC60726/IEC60076 + any marine certificate possible (DNV, Lloyd, Rina, RMRS, BV, ABS and more)

Type	Power [kVA]	A	B	C	D	E	Weight [kg]
	c. F	c. H					
RAY40	40	45	670	520	827	340	232
RAY50	50	56	670	520	827	340	243
RAY63	63	70	700	520	877	360	270
RAY80	80	89	700	520	877	360	323
RAY100	100	110	930	630	1057	590	406
RAY125	125	138	930	630	1057	590	467
RAY160	160	175	1050	700	1137	590	605
RAY200	200	220	1050	700	1137	590	698
RAY250	250	275	1210	800	1517	600	900
RAY315	315	350	1210	800	1517	600	1014
RAY400	400	440	1450	900	1557	760	1295
RAY500	500	550	1450	900	1557	760	1426
RAY630	630	700	1670	1050	1637	880	1736
RAY800	800	888	1670	1050	1637	880	2028
RAY1000	1000	1100	1820	1080	2090	850	3000
RAY1250	1250	1380	1820	1080	2090	850	3300
RAY1600	1600	1750	2200	1080	2355	850	2700
RAY2000	2000	2200	2200	1080	2355	850	5080

other executions available upon request

RAY40-RAY800



RAY800-RAY2000

