

QDTB® TRANSFORMER

S13-M

Oil-Immersed Transformers

PRODUCT DATASHEET

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S13-M — Series Overview

The S13-M series delivers enhanced energy efficiency with Level 13 rating, combining sealed construction with improved performance. Rated 10–5000 kVA, 0.48–35 kV primary and 0.208–0.48 kV secondary, mineral-oil insulation with 65 K temperature rise. Suitable for utility distribution networks, substations, solar farms, and industrial power systems.

Key Features

- Level 13 energy efficiency rating
- Reduced energy losses
- Sealed construction for reliability
- Environmentally friendly design

Typical Applications

- Energy-efficient grids
- Green power distribution
- Modern utility networks
- Sustainable infrastructure

Model Number Breakdown

S — Three-phase power transformer

13 — Performance level designation, corresponds to Level 13 energy efficiency standard

M — Sealed construction, maintenance-free design

Model Specifications

162 model(s) in the S13-M series. Weight and dimensions are typical reference values, subject to confirmation.

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †	Oil Weight (kg) †
S13-M-10/10/0.4	10	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	400	1000	1.3	4	≤33 dB(A)	A (105°C)	IEC 60076	250 kg	650×450×750 mm	70 kg
S13-M-10/6/0.4	10	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	400	1000	1.3	4	≤33 dB(A)	A (105°C)	IEC 60076	250 kg	650×450×750 mm	70 kg
S13-M-10/35/0.4	10	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	400	1000	1.3	4	≤33 dB(A)	A (105°C)	IEC 60076	250 kg	650×450×750 mm	70 kg
S13-M-10/10/0.48	10	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	400	1000	1.3	4	≤33 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	250 kg	650×450×750 mm	70 kg
S13-M-10/10/0.22	10	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	400	1000	1.3	4	≤33 dB(A)	A (105°C)	IEC 60076	250 kg	650×450×750 mm	70 kg
S13-M-10/0.48/0.208	10	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	400	1000	1.3	4	≤33 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	250 kg	650×450×750 mm	70 kg
S13-M-15/10/0.4	15	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	550	1375	1.1	4	≤33 dB(A)	A (105°C)	IEC 60076	270 kg	675×475×775 mm	75 kg
S13-M-15/6/0.4	15	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	550	1375	1.1	4	≤33 dB(A)	A (105°C)	IEC 60076	270 kg	675×475×775 mm	75 kg
S13-M-15/35/0.4	15	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	550	1375	1.1	4	≤33 dB(A)	A (105°C)	IEC 60076	270 kg	675×475×775 mm	75 kg
S13-M-15/10/0.48	15	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	550	1375	1.1	4	≤33 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	270 kg	675×475×775 mm	75 kg
S13-M-15/10/0.22	15	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	550	1375	1.1	4	≤33 dB(A)	A (105°C)	IEC 60076	270 kg	675×475×775 mm	75 kg
S13-M-15/0.48/0.208	15	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	550	1375	1.1	4	≤33 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	270 kg	675×475×775 mm	75 kg
S13-M-20/10/0.4	20	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	680	1700	1	4	≤34 dB(A)	A (105°C)	IEC 60076	290 kg	700×500×800 mm	80 kg
S13-M-20/6/0.4	20	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	680	1700	1	4	≤34 dB(A)	A (105°C)	IEC 60076	290 kg	700×500×800 mm	80 kg

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †	Oil Weight (kg) †
S13-M-20/35/0.4	20	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	680	1700	1	4	≤34 dB(A)	A (105°C)	IEC 60076	290 kg	700×500×800 mm	80 kg
S13-M-20/10/0.48	20	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	680	1700	1	4	≤34 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	290 kg	700×500×800 mm	80 kg
S13-M-20/10/0.22	20	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	680	1700	1	4	≤34 dB(A)	A (105°C)	IEC 60076	290 kg	700×500×800 mm	80 kg
S13-M-20/0.48/0.208	20	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	680	1700	1	4	≤34 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	290 kg	700×500×800 mm	80 kg
S13-M-25/10/0.4	25	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	800	2000	0.9	4	≤34 dB(A)	A (105°C)	IEC 60076	315 kg	785×550×825 mm	85 kg
S13-M-25/6/0.4	25	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	800	2000	0.9	4	≤34 dB(A)	A (105°C)	IEC 60076	315 kg	785×550×825 mm	85 kg
S13-M-25/35/0.4	25	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	800	2000	0.9	4	≤34 dB(A)	A (105°C)	IEC 60076	315 kg	785×550×825 mm	85 kg
S13-M-25/10/0.48	25	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	800	2000	0.9	4	≤34 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	315 kg	785×550×825 mm	85 kg
S13-M-25/10/0.22	25	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	800	2000	0.9	4	≤34 dB(A)	A (105°C)	IEC 60076	315 kg	785×550×825 mm	85 kg
S13-M-25/0.48/0.208	25	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	800	2000	0.9	4	≤34 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	315 kg	785×550×825 mm	85 kg
S13-M-30/10/0.4	30	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	920	2300	0.9	4	≤34 dB(A)	A (105°C)	IEC 60076	340 kg	870×600×850 mm	90 kg
S13-M-30/6/0.4	30	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	920	2300	0.9	4	≤34 dB(A)	A (105°C)	IEC 60076	340 kg	870×600×850 mm	90 kg
S13-M-30/35/0.4	30	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	920	2300	0.9	4	≤34 dB(A)	A (105°C)	IEC 60076	340 kg	870×600×850 mm	90 kg
S13-M-30/10/0.48	30	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	920	2300	0.9	4	≤34 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	340 kg	870×600×850 mm	90 kg
S13-M-30/10/0.22	30	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	920	2300	0.9	4	≤34 dB(A)	A (105°C)	IEC 60076	340 kg	870×600×850 mm	90 kg

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †	Oil Weight (kg) †
S13-M-30/0.48/0.208	30	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	920	2300	0.9	4	≤34 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	340 kg	870×600×850 mm	90 kg
S13-M-40/10/0.4	40	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	1150	2875	0.8	4	≤35 dB(A)	A (105°C)	IEC 60076	405 kg	885×610×875 mm	100 kg
S13-M-40/6/0.4	40	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	1150	2875	0.8	4	≤35 dB(A)	A (105°C)	IEC 60076	405 kg	885×610×875 mm	100 kg
S13-M-40/35/0.4	40	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	1150	2875	0.8	4	≤35 dB(A)	A (105°C)	IEC 60076	405 kg	885×610×875 mm	100 kg
S13-M-40/10/0.48	40	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	1150	2875	0.8	4	≤35 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	405 kg	885×610×875 mm	100 kg
S13-M-40/10/0.22	40	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	1150	2875	0.8	4	≤35 dB(A)	A (105°C)	IEC 60076	405 kg	885×610×875 mm	100 kg
S13-M-40/0.48/0.208	40	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	1150	2875	0.8	4	≤35 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	405 kg	885×610×875 mm	100 kg
S13-M-50/10/0.4	50	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	1350	3375	0.7	4	≤35 dB(A)	A (105°C)	IEC 60076	470 kg	900×620×900 mm	110 kg
S13-M-50/6/0.4	50	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	1350	3375	0.7	4	≤35 dB(A)	A (105°C)	IEC 60076	470 kg	900×620×900 mm	110 kg
S13-M-50/35/0.4	50	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	1350	3375	0.7	4	≤35 dB(A)	A (105°C)	IEC 60076	470 kg	900×620×900 mm	110 kg
S13-M-50/10/0.48	50	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	1350	3375	0.7	4	≤35 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	470 kg	900×620×900 mm	110 kg
S13-M-50/10/0.22	50	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	1350	3375	0.7	4	≤35 dB(A)	A (105°C)	IEC 60076	470 kg	900×620×900 mm	110 kg
S13-M-50/0.48/0.208	50	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	1350	3375	0.7	4	≤35 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	470 kg	900×620×900 mm	110 kg
S13-M-63/10/0.4	63	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	1610	4025	0.7	4	≤36 dB(A)	A (105°C)	IEC 60076	525 kg	945×645×945 mm	120 kg
S13-M-63/6/0.4	63	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	1610	4025	0.7	4	≤36 dB(A)	A (105°C)	IEC 60076	525 kg	945×645×945 mm	120 kg

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S13-M-63/35/0.4	63	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	1610	4025	0.7	4	≤36 dB(A)	A (105°C)	IEC 60076	525 kg	945×645×945 mm	120 kg
S13-M-63/10/0.48	63	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	1610	4025	0.7	4	≤36 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	525 kg	945×645×945 mm	120 kg
S13-M-63/10/0.22	63	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	1610	4025	0.7	4	≤36 dB(A)	A (105°C)	IEC 60076	525 kg	945×645×945 mm	120 kg
S13-M-63/0.48/0.208	63	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	1610	4025	0.7	4	≤36 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	525 kg	945×645×945 mm	120 kg
S13-M-80/10/0.4	80	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	1930	4825	0.6	4	≤37 dB(A)	A (105°C)	IEC 60076	600 kg	1000×680×1000 mm	135 kg
S13-M-80/6/0.4	80	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	1930	4825	0.6	4	≤37 dB(A)	A (105°C)	IEC 60076	600 kg	1000×680×1000 mm	135 kg
S13-M-80/35/0.4	80	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	1930	4825	0.6	4	≤37 dB(A)	A (105°C)	IEC 60076	600 kg	1000×680×1000 mm	135 kg
S13-M-80/10/0.48	80	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	1930	4825	0.6	4	≤37 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	600 kg	1000×680×1000 mm	135 kg
S13-M-80/10/0.22	80	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	1930	4825	0.6	4	≤37 dB(A)	A (105°C)	IEC 60076	600 kg	1000×680×1000 mm	135 kg
S13-M-80/0.48/0.208	80	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	1930	4825	0.6	4	≤37 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	600 kg	1000×680×1000 mm	135 kg
S13-M-100/10/0.4	100	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	2280	5700	0.6	4	≤37 dB(A)	A (105°C)	IEC 60076	670 kg	1050×700×1080 mm	155 kg
S13-M-100/6/0.4	100	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	2280	5700	0.6	4	≤37 dB(A)	A (105°C)	IEC 60076	670 kg	1050×700×1080 mm	155 kg
S13-M-100/35/0.4	100	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	2280	5700	0.6	4	≤37 dB(A)	A (105°C)	IEC 60076	670 kg	1050×700×1080 mm	155 kg
S13-M-100/10/0.48	100	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	2280	5700	0.6	4	≤37 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	670 kg	1050×700×1080 mm	155 kg
S13-M-100/10/0.22	100	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	2280	5700	0.6	4	≤37 dB(A)	A (105°C)	IEC 60076	670 kg	1050×700×1080 mm	155 kg

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S13-M-100/0.48/0.208	100	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	2280	5700	0.6	4	≤37 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	670 kg	1050×700×1080 mm	155 kg
S13-M-125/10/0.4	125	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	2690	6725	0.5	4.5	≤38 dB(A)	A (105°C)	IEC 60076	730 kg	1080×720×1100 mm	170 kg
S13-M-125/6/0.4	125	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	2690	6725	0.5	4.5	≤38 dB(A)	A (105°C)	IEC 60076	730 kg	1080×720×1100 mm	170 kg
S13-M-125/35/0.4	125	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	2690	6725	0.5	4.5	≤38 dB(A)	A (105°C)	IEC 60076	730 kg	1080×720×1100 mm	170 kg
S13-M-125/10/0.48	125	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	2690	6725	0.5	4.5	≤38 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	730 kg	1080×720×1100 mm	170 kg
S13-M-125/10/0.22	125	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	2690	6725	0.5	4.5	≤38 dB(A)	A (105°C)	IEC 60076	730 kg	1080×720×1100 mm	170 kg
S13-M-125/0.48/0.208	125	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	2690	6725	0.5	4.5	≤38 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	730 kg	1080×720×1100 mm	170 kg
S13-M-160/10/0.4	160	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	3240	8100	0.5	4.5	≤38 dB(A)	A (105°C)	IEC 60076	800 kg	1110×970×1290 mm	190 kg
S13-M-160/6/0.4	160	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	3240	8100	0.5	4.5	≤38 dB(A)	A (105°C)	IEC 60076	800 kg	1110×970×1290 mm	190 kg
S13-M-160/35/0.4	160	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	3240	8100	0.5	4.5	≤38 dB(A)	A (105°C)	IEC 60076	800 kg	1110×970×1290 mm	190 kg
S13-M-160/10/0.48	160	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	3240	8100	0.5	4.5	≤38 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	800 kg	1110×970×1290 mm	190 kg
S13-M-160/10/0.22	160	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	3240	8100	0.5	4.5	≤38 dB(A)	A (105°C)	IEC 60076	800 kg	1110×970×1290 mm	190 kg
S13-M-160/0.48/0.208	160	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	3240	8100	0.5	4.5	≤38 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	800 kg	1110×970×1290 mm	190 kg
S13-M-200/10/0.4	200	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	3830	9575	0.5	4.5	≤39 dB(A)	A (105°C)	IEC 60076	930 kg	1180×1020×1310 mm	215 kg
S13-M-200/6/0.4	200	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	3830	9575	0.5	4.5	≤39 dB(A)	A (105°C)	IEC 60076	930 kg	1180×1020×1310 mm	215 kg

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S13-M-200/10/0.48	200	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	3830	9575	0.5	4.5	≤39 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	930 kg	1180×1020×1310 mm	215 kg
S13-M-200/10/0.22	200	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	3830	9575	0.5	4.5	≤39 dB(A)	A (105°C)	IEC 60076	930 kg	1180×1020×1310 mm	215 kg
S13-M-200/0.48/0.208	200	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	3830	9575	0.5	4.5	≤39 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	930 kg	1180×1020×1310 mm	215 kg
S13-M-250/10/0.4	250	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	4530	11325	0.4	4.5	≤40 dB(A)	A (105°C)	IEC 60076	1050 kg	1190×1030×1300 mm	245 kg
S13-M-250/6/0.4	250	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	4530	11325	0.4	4.5	≤40 dB(A)	A (105°C)	IEC 60076	1050 kg	1190×1030×1300 mm	245 kg
S13-M-250/35/0.4	250	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	4530	11325	0.4	4.5	≤40 dB(A)	A (105°C)	IEC 60076	1050 kg	1190×1030×1300 mm	245 kg
S13-M-250/10/0.48	250	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	4530	11325	0.4	4.5	≤40 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	1050 kg	1190×1030×1300 mm	245 kg
S13-M-250/10/0.22	250	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	4530	11325	0.4	4.5	≤40 dB(A)	A (105°C)	IEC 60076	1050 kg	1190×1030×1300 mm	245 kg
S13-M-250/0.48/0.208	250	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	4530	11325	0.4	4.5	≤40 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	1050 kg	1190×1030×1300 mm	245 kg
S13-M-315/10/0.4	315	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	5380	13450	0.4	4.5	≤40 dB(A)	A (105°C)	IEC 60076	1250 kg	1290×1120×1360 mm	290 kg
S13-M-315/6/0.4	315	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	5380	13450	0.4	4.5	≤40 dB(A)	A (105°C)	IEC 60076	1250 kg	1290×1120×1360 mm	290 kg
S13-M-315/35/0.4	315	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	5380	13450	0.4	4.5	≤40 dB(A)	A (105°C)	IEC 60076	1250 kg	1290×1120×1360 mm	290 kg
S13-M-315/10/0.48	315	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	5380	13450	0.4	4.5	≤40 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	1250 kg	1290×1120×1360 mm	290 kg
S13-M-315/10/0.22	315	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	5380	13450	0.4	4.5	≤40 dB(A)	A (105°C)	IEC 60076	1250 kg	1290×1120×1360 mm	290 kg

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †	Oil Weight (kg) †
S13-M-315/0.48/0.208	315	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	5380	13450	0.4	4.5	≤40 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	1250 kg	1290×1120×1360 mm	290 kg
S13-M-400/10/0.4	400	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	6440	16100	0.4	4.5	≤41 dB(A)	A (105°C)	IEC 60076	1400 kg	1280×1110×1410 mm	330 kg
S13-M-400/6/0.4	400	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	6440	16100	0.4	4.5	≤41 dB(A)	A (105°C)	IEC 60076	1400 kg	1280×1110×1410 mm	330 kg
S13-M-400/35/0.4	400	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	6440	16100	0.4	4.5	≤41 dB(A)	A (105°C)	IEC 60076	1400 kg	1280×1110×1410 mm	330 kg
S13-M-400/10/0.48	400	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	6440	16100	0.4	4.5	≤41 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	1400 kg	1280×1110×1410 mm	330 kg
S13-M-400/10/0.22	400	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	6440	16100	0.4	4.5	≤41 dB(A)	A (105°C)	IEC 60076	1400 kg	1280×1110×1410 mm	330 kg
S13-M-400/0.48/0.208	400	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	6440	16100	0.4	4.5	≤41 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	1400 kg	1280×1110×1410 mm	330 kg
S13-M-500/10/0.4	500	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	7610	19025	0.4	4.5	≤42 dB(A)	A (105°C)	IEC 60076	1580 kg	1400×1210×1420 mm	370 kg
S13-M-500/6/0.4	500	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	7610	19025	0.4	4.5	≤42 dB(A)	A (105°C)	IEC 60076	1580 kg	1400×1210×1420 mm	370 kg
S13-M-500/35/0.4	500	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	7610	19025	0.4	4.5	≤42 dB(A)	A (105°C)	IEC 60076	1580 kg	1400×1210×1420 mm	370 kg
S13-M-500/10/0.48	500	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	7610	19025	0.4	4.5	≤42 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	1580 kg	1400×1210×1420 mm	370 kg
S13-M-500/10/0.22	500	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	7610	19025	0.4	4.5	≤42 dB(A)	A (105°C)	IEC 60076	1580 kg	1400×1210×1420 mm	370 kg
S13-M-500/0.48/0.208	500	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	7610	19025	0.4	4.5	≤42 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	1580 kg	1400×1210×1420 mm	370 kg
S13-M-630/10/0.4	630	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	9050	22625	0.4	4.5	≤43 dB(A)	A (105°C)	IEC 60076	2000 kg	1440×1250×1490 mm	470 kg
S13-M-630/6/0.4	630	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	9050	22625	0.4	4.5	≤43 dB(A)	A (105°C)	IEC 60076	2000 kg	1440×1250×1490 mm	470 kg

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †	Oil Weight (kg) †
S13-M-630/35/0.4	630	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	9050	22625	0.4	4.5	≤43 dB(A)	A (105°C)	IEC 60076	2000 kg	1440×1250×1490 mm	470 kg
S13-M-630/10/0.48	630	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	9050	22625	0.4	4.5	≤43 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	2000 kg	1440×1250×1490 mm	470 kg
S13-M-630/10/0.22	630	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	9050	22625	0.4	4.5	≤43 dB(A)	A (105°C)	IEC 60076	2000 kg	1440×1250×1490 mm	470 kg
S13-M-630/0.48/0.208	630	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	9050	22625	0.4	4.5	≤43 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	2000 kg	1440×1250×1490 mm	470 kg
S13-M-800/10/0.4	800	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	10830	27075	0.3	6	≤44 dB(A)	A (105°C)	IEC 60076	2250 kg	1540×1340×1520 mm	530 kg
S13-M-800/6/0.4	800	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	10830	27075	0.3	6	≤44 dB(A)	A (105°C)	IEC 60076	2250 kg	1540×1340×1520 mm	530 kg
S13-M-800/35/0.4	800	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	10830	27075	0.3	6	≤44 dB(A)	A (105°C)	IEC 60076	2250 kg	1540×1340×1520 mm	530 kg
S13-M-800/10/0.48	800	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	10830	27075	0.3	6	≤44 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	2250 kg	1540×1340×1520 mm	530 kg
S13-M-800/10/0.22	800	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	10830	27075	0.3	6	≤44 dB(A)	A (105°C)	IEC 60076	2250 kg	1540×1340×1520 mm	530 kg
S13-M-800/0.48/0.208	800	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	10830	27075	0.3	6	≤44 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	2250 kg	1540×1340×1520 mm	530 kg
S13-M-1000/10/0.4	1000	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	12800	32000	0.3	6	≤44 dB(A)	A (105°C)	IEC 60076	3000 kg	1715×1485×1725 mm	655 kg
S13-M-1000/6/0.4	1000	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	12800	32000	0.3	6	≤44 dB(A)	A (105°C)	IEC 60076	3000 kg	1715×1485×1725 mm	655 kg
S13-M-1000/35/0.4	1000	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	12800	32000	0.3	6	≤44 dB(A)	A (105°C)	IEC 60076	3000 kg	1715×1485×1725 mm	655 kg
S13-M-1000/10/0.48	1000	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	12800	32000	0.3	6	≤44 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	3000 kg	1715×1485×1725 mm	655 kg
S13-M-1000/10/0.22	1000	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	12800	32000	0.3	6	≤44 dB(A)	A (105°C)	IEC 60076	3000 kg	1715×1485×1725 mm	655 kg

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †	Oil Weight (kg) †
S13-M-1000/0.48/0.208	1000	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	12800	32000	0.3	6	≤44 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	3000 kg	1715×1485×1725 mm	655 kg
S13-M-1250/10/0.4	1250	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	15140	37850	0.3	6	≤45 dB(A)	A (105°C)	IEC 60076	3450 kg	1710×1480×1830 mm	700 kg
S13-M-1250/6/0.4	1250	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	15140	37850	0.3	6	≤45 dB(A)	A (105°C)	IEC 60076	3450 kg	1710×1480×1830 mm	700 kg
S13-M-1250/35/0.4	1250	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	15140	37850	0.3	6	≤45 dB(A)	A (105°C)	IEC 60076	3450 kg	1710×1480×1830 mm	700 kg
S13-M-1250/10/0.48	1250	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	15140	37850	0.3	6	≤45 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	3450 kg	1710×1480×1830 mm	700 kg
S13-M-1250/10/0.22	1250	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	15140	37850	0.3	6	≤45 dB(A)	A (105°C)	IEC 60076	3450 kg	1710×1480×1830 mm	700 kg
S13-M-1250/0.48/0.208	1250	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	15140	37850	0.3	6	≤45 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	3450 kg	1710×1480×1830 mm	700 kg
S13-M-1600/10/0.4	1600	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	18210	45525	0.3	6	≤46 dB(A)	A (105°C)	IEC 60076	4450 kg	1880×1630×1940 mm	1045 kg
S13-M-1600/6/0.4	1600	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	18210	45525	0.3	6	≤46 dB(A)	A (105°C)	IEC 60076	4450 kg	1880×1630×1940 mm	1045 kg
S13-M-1600/35/0.4	1600	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	18210	45525	0.3	6	≤46 dB(A)	A (105°C)	IEC 60076	4450 kg	1880×1630×1940 mm	1045 kg
S13-M-1600/10/0.48	1600	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	18210	45525	0.3	6	≤46 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	4450 kg	1880×1630×1940 mm	1045 kg
S13-M-1600/10/0.22	1600	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	18210	45525	0.3	6	≤46 dB(A)	A (105°C)	IEC 60076	4450 kg	1880×1630×1940 mm	1045 kg
S13-M-1600/0.48/0.208	1600	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	18210	45525	0.3	6	≤46 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	4450 kg	1880×1630×1940 mm	1045 kg
S13-M-2000/10/0.4	2000	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	21530	53825	0.3	6	≤47 dB(A)	A (105°C)	IEC 60076	5000 kg	2000×1700×2000 mm	1150 kg
S13-M-2000/6/0.4	2000	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	21530	53825	0.3	6	≤47 dB(A)	A (105°C)	IEC 60076	5000 kg	2000×1700×2000 mm	1150 kg

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †	Oil Weight (kg) †
S13-M-2000/35/0.4	2000	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	21530	53825	0.3	6	≤47 dB(A)	A (105°C)	IEC 60076	5000 kg	2000×1700×2000 mm	1150 kg
S13-M-2000/10/0.48	2000	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	21530	53825	0.3	6	≤47 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	5000 kg	2000×1700×2000 mm	1150 kg
S13-M-2000/10/0.22	2000	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	21530	53825	0.3	6	≤47 dB(A)	A (105°C)	IEC 60076	5000 kg	2000×1700×2000 mm	1150 kg
S13-M-2000/0.48/0.208	2000	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	21530	53825	0.3	6	≤47 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	5000 kg	2000×1700×2000 mm	1150 kg
S13-M-2500/10/0.4	2500	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	25460	63650	0.3	6	≤47 dB(A)	A (105°C)	IEC 60076	5800 kg	2180×1320×1970 mm	1300 kg
S13-M-2500/6/0.4	2500	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	25460	63650	0.3	6	≤47 dB(A)	A (105°C)	IEC 60076	5800 kg	2180×1320×1970 mm	1300 kg
S13-M-2500/35/0.4	2500	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	25460	63650	0.3	6	≤47 dB(A)	A (105°C)	IEC 60076	5800 kg	2180×1320×1970 mm	1300 kg
S13-M-2500/10/0.48	2500	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	25460	63650	0.3	6	≤47 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	5800 kg	2180×1320×1970 mm	1300 kg
S13-M-2500/10/0.22	2500	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	25460	63650	0.3	6	≤47 dB(A)	A (105°C)	IEC 60076	5800 kg	2180×1320×1970 mm	1300 kg
S13-M-2500/0.48/0.208	2500	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	25460	63650	0.3	6	≤47 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	5800 kg	2180×1320×1970 mm	1300 kg
S13-M-3150/10/0.4	3150	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	30270	75675	0.3	7	≤48 dB(A)	A (105°C)	IEC 60076	6900 kg	2300×1450×2100 mm	1500 kg
S13-M-3150/6/0.4	3150	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	30270	75675	0.3	7	≤48 dB(A)	A (105°C)	IEC 60076	6900 kg	2300×1450×2100 mm	1500 kg
S13-M-3150/35/0.4	3150	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	30270	75675	0.3	7	≤48 dB(A)	A (105°C)	IEC 60076	6900 kg	2300×1450×2100 mm	1500 kg
S13-M-3150/10/0.48	3150	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	30270	75675	0.3	7	≤48 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	6900 kg	2300×1450×2100 mm	1500 kg
S13-M-3150/10/0.22	3150	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	30270	75675	0.3	7	≤48 dB(A)	A (105°C)	IEC 60076	6900 kg	2300×1450×2100 mm	1500 kg

Model	Rated Capacity	HV Voltage	LV Voltage	Connection	Cooling	No-load Loss (W)	Load Loss (W)	No-load Current (%)	Impedance (%)	Noise (dB)	Insulation Class	Standard	Weight (kg) †	Dimensions (L×W×H) †	Oil Weight (kg) †
S13-M-3150/0.48/0.208	3150	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	30270	75675	0.3	7	≤48 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	6900 kg	2300×1450×2100 mm	1500 kg
S13-M-4000/10/0.4	4000	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	36210	90525	0.2	7	≤49 dB(A)	A (105°C)	IEC 60076	8300 kg	2500×1550×2250 mm	1800 kg
S13-M-4000/6/0.4	4000	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	36210	90525	0.2	7	≤49 dB(A)	A (105°C)	IEC 60076	8300 kg	2500×1550×2250 mm	1800 kg
S13-M-4000/35/0.4	4000	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	36210	90525	0.2	7	≤49 dB(A)	A (105°C)	IEC 60076	8300 kg	2500×1550×2250 mm	1800 kg
S13-M-4000/10/0.48	4000	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	36210	90525	0.2	7	≤49 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	8300 kg	2500×1550×2250 mm	1800 kg
S13-M-4000/10/0.22	4000	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	36210	90525	0.2	7	≤49 dB(A)	A (105°C)	IEC 60076	8300 kg	2500×1550×2250 mm	1800 kg
S13-M-4000/0.48/0.208	4000	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	36210	90525	0.2	7	≤49 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	8300 kg	2500×1550×2250 mm	1800 kg
S13-M-5000/10/0.4	5000	10 kV	0.4 kV	Dyn11 (IEC)	ONAN	42810	107025	0.2	7	≤50 dB(A)	A (105°C)	IEC 60076	10000 kg	2700×1650×2400 mm	2100 kg
S13-M-5000/6/0.4	5000	6 kV	0.4 kV	Dyn11 (IEC)	ONAN	42810	107025	0.2	7	≤50 dB(A)	A (105°C)	IEC 60076	10000 kg	2700×1650×2400 mm	2100 kg
S13-M-5000/35/0.4	5000	35 kV	0.4 kV	Dyn11 (IEC)	ONAN	42810	107025	0.2	7	≤50 dB(A)	A (105°C)	IEC 60076	10000 kg	2700×1650×2400 mm	2100 kg
S13-M-5000/10/0.48	5000	10 kV	0.48 kV	Delta-Wye (IEEE Std)	ONAN	42810	107025	0.2	7	≤50 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	10000 kg	2700×1650×2400 mm	2100 kg
S13-M-5000/10/0.22	5000	10 kV	0.22 kV	Dyn11 (IEC)	ONAN	42810	107025	0.2	7	≤50 dB(A)	A (105°C)	IEC 60076	10000 kg	2700×1650×2400 mm	2100 kg
S13-M-5000/0.48/0.208	5000	0.48 kV	0.208 kV	Delta-Wye (IEEE Std)	ONAN	42810	107025	0.2	7	≤50 dB(A)	A (105°C)	IEEE C57 / ANSI C84.1	10000 kg	2700×1650×2400 mm	2100 kg

† Typical values, subject to confirmation. Final dimensions and weights are per factory GA drawings and routine test reports.

Standards & Certification

ISO 9001 Certified — Quality Management System
CE marking — available on selected models
Design and testing per IEC 60076, IEC 60076-11 (dry-type), IEC 61330 (substations), GB 1094 and related international standards.

Note: Certification details and test reports are provided upon request for the specific model and destination market.

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