50 Hz series
IEC 600076 standard
Insulation HV 24 kV - LV 1,1 kV

FR3 Vegetable oil transformers

rated power	kVA	1000	1500	2000	2500	3000
installation		I	I	I	I	I
type		SD	SD	SD	SD	SD
underbase		wheel	wheel	wheel	wheel	wheel
nominal frequency	Hz	50	50	50	50	50
primary voltage	V	22000	22000	22000	22000	22000
isolation level	kV	24	24	24	24	24
secondary voltage at no load	V	433	433	433	433	433
tappings	%	±2x2.5	±2x2.5	±2x2.5	±2x2.5	±2x2.5
vector group		Dyn 11	Dyn 11	Dyn 11	Dyn 11	Dyn 11
no load losses	W	1300	1800	2300	2500	3400
load losses at 75°C	W	12000	19000	26300	29000	31400
impedance voltage	%	6	6	6	6	7
HV bushings	BP	20 NF 250	20 NF 250	20 NF 250	20 NF 250	20 NF 250
LV bushings	BP	1 / 2000	1 / 3150	1 / 3150	3 / 4500	3 / 4500
max altitude	m	1000	1000	1000	1000	1000
max ambient temperature	°C	40	40	40	40	40
Temperature rise of windings/oil	°K	65/60	65/60	65/60	65/60	65/60
MV/LV windings material		Cu/Cu	Cu/Cu	Cu/Cu	Cu/Cu	Cu/Cu
Insulating Oil		FR3 vegetable	FR3 vegetable	FR3 vegetable	FR3 vegetable	FR3 vegetable
Cooling method (ONAN/ONAF)		KNAN	KNAN	KNAN	KNAN	KNAN
insulation Class	Class	A	A	A	A	A

approximate dimensions and weight

ETABLISSEMENT TARIF	kVA	1000	1500	2000	2500	3000
Length A	mm	2000	2100	2150	2300	2450
Width B	mm	1280	1280	1280	1280	1280
Height on bushings D	mm	1850	2000	2150	2300	2350
Total weight	kg	2770	4000	5000	6140	6870
Oil weight	kg	640	860	1060	1360	1480

Noise level						
Acoustic power	dB(A)	66	68	75	75	78
Acoustic pressure at 1 m	dB(A)	52	54	60	60	62