

Product datasheet

Specifications



Trihal Cast Resin dry type transformer 1600 kVA 20 kV IEC Dyn5 IP21

TRI1600245298IP210

Main

product range	Trihal
Product or component type	Transformer
Transformer type	Dry type transformer
Network type	AC
Directives	2015/2014/548/EC- ecodesign
Type of installation	Indoor
maximum altitude	< 1000 m
cooling mode	ANAF (air natural air forced)
winding material	Aluminium
insulation material	Cast resin (HV) Pre-impregnated (LV)
degree of protection	IP21 enclosure IEC IP21 low voltage cable box
Mounting mode	Fixed

Complementary

phase	3 phases
rated power	1600 kVA
rated frequency	50 Hz
rated primary voltage	20 kV
Secondary voltage (at no-load)	No load: 400 V
Insulation voltage to industrial frequency (50 Hz 1 mn)	24 kV AC primary 1.1 kV AC secondary
rated insulation level	Primary circuit: 50 kV AC Secondary circuit: 3 kV AC
Lighting impulse withstand voltage (BIL) , 1.2/50 µs	125 kV
Vector group	Dyn5
HV tapings (off circuit)	+/- 2 x 2.5 %
short circuit impedance	6 %
no-load losses	3100 W
load losses at 75°C/120 °C	16000 W at 120 °C
temperature rise of windings	100 K (winding)
thermal class	F

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

sound power level	57 dB at 1 m
Electrical connection	Plug-in bushing
protective relay	6.0 PTC relay 1.0 Ziehl relay
Locking options description	Bushing locking device high voltage connection
Height	2430 mm
Width	1600 mm
Length	2400 mm
total weight	4300 kg

Environment

Ambient air temperature for operation	-25...40 °C for C2
Ambient air temperature for storage	-50...40 °C C4
environmental certification	0...95 % (E4)
fire certificate	F1
Standards	IEC 60076-11:2018

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

Environmental footprint	
Carbon footprint (kg.eq.CO2 per CR, Total Life cycle)	466186

Use Better	
Materials and Packaging	
Packaging made with recycled cardboard	No
Packaging without single use plastic	No
[EU RoHS Directive](#)	Pro-active compliance (Product out of EU RoHS legal scope)
REACH Regulation	[REACH Declaration](#)
Energy efficiency	
Product contributes to saved and avoided emissions	Yes
Use Again	
Repack and remanufacture	
Take-back	No