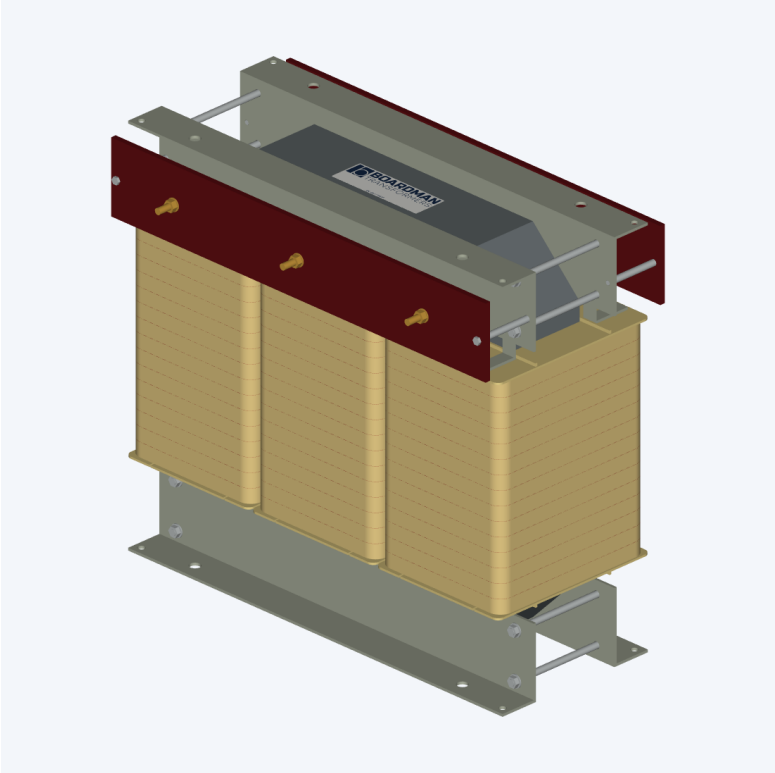
3CL three-phase transformers

200-750 kVA | Isolation transformers with primary/secondary earth screen



Technical specifications

Item	Specification
Primary voltage	To be specified
Secondary voltage	To be specified
Vector group	To be specified
Frequency / insulation	50/60 Hz / Class F
Ambient temperature	40 degrees C
Duty	Continuous duty at the rated kVA
Insulation resistance	Greater than 5 megohms
Dielectric strength	Greater than 2.5 kV: primary-secondary, primary-earth and secondary-earth
Standards	IEC / BS-EN 61558; IEC 60076

Construction & options

Core, windings, connections and enclosure options

Item	Specification
Core	High-grade electrical steel, securely clamped and tied
Windings	Grade 2 polyester-covered copper round wire or Nomex-covered copper strip
Cooling	Open transformers: AN. Enclosed transformers: ANAN. Fan cooling available on special units.
Terminals	DIN-rail mounted, stud or copper busbar according to current level
Earthing	Earth screen between primary and secondary windings, with cable brought out and bonded to the core and all steel metalwork
Enclosures	Sheet-steel enclosures available; see separate enclosure data sheets
Protection	Fuses or circuit breakers can be fitted

Weights

Rating	kg	Rating	kg	Rating	kg
200 kVA	750	400 kVA	1400	750 kVA	2000
250 kVA	900	500 kVA	1700		
300 kVA	1250	600 kVA	2000		

Mechanical dimensions

200-750 kVA | All dimensions in millimetres

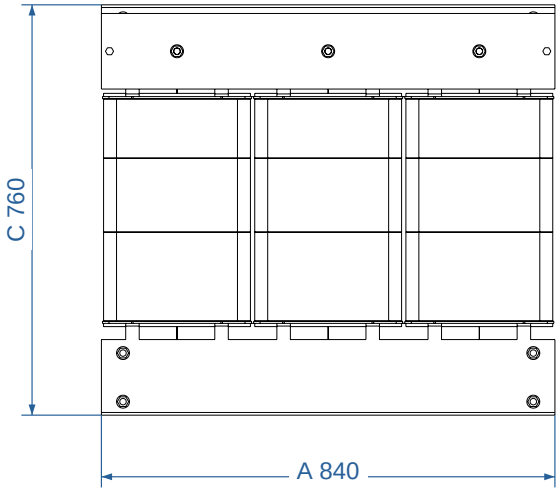
Part	Core / bobbin	A	B	C	D	E	Fixing size	Weight (kg)
3CL200kVA	Unicore 420x160	840	474	760	600	266	20 dia.	750
3CL250kVA	Unicore 420x180	840	494	760	600	286	20 dia.	900
3CL300kVA	Unicore 540x180	1080	558	980	700	306	20 dia.	1250
3CL400kVA	Unicore 540x200	1080	578	980	700	326	20 dia.	1400
3CL500kVA	Unicore 540x220	1080	598	980	700	346	20 dia.	1700
3CL600kVA	Unicore 540x250	1080	628	980	700	376	20 dia.	2000
3CL750kVA	Unicore 600x200	1200	616	1080	800	346	20 dia.	2000

Dimension key

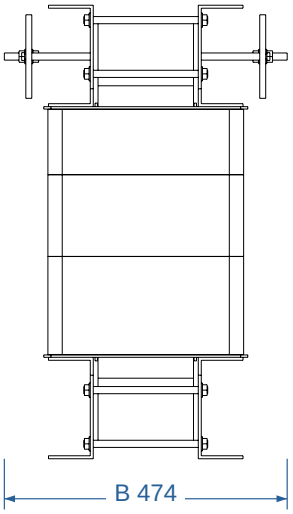
A = overall width; B = overall depth, including terminals; C = overall height from the mounting surface.
D = transverse pitch between the outer main fixing centres; E = front-to-rear fixing-centre pitch.
Fixing sizes are slot width x overall length, or round-hole diameter.

Dimensional drawing

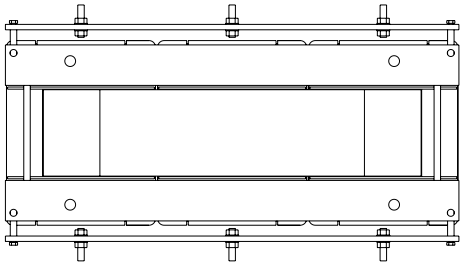
3CL200kVA | 200 kVA | Unicore 420 x 160 | Dimensions in millimetres | Not to scale



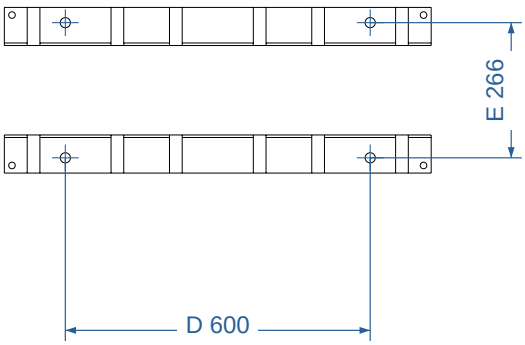
FRONT



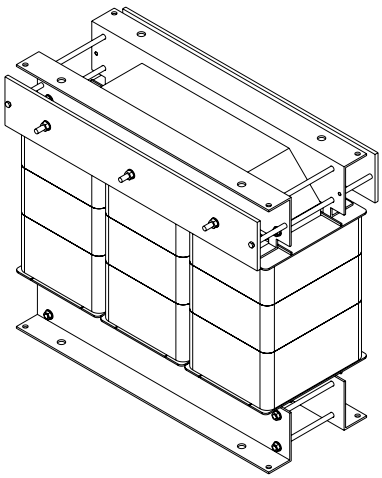
RIGHT SIDE



TOP PLAN



MOUNTING PLAN



ISOMETRIC

DIMENSIONS

Dimension	mm
A / overall width	840
B / overall depth	474
C / overall height	760
D x E / main fixing centres	600 x 266
4 main holes / diameter	20