

803 series design data

50Hz/60Hz/500Hz transformers

DESIGN CONSTANTS

Product Code	Ae core area (cm ²)	le magnetic path length (cm)	Surface area (cm ²)	Winding window area (cm ²)	Winding area x core area (cm ⁴)	Winding width (cm)	Winding height (cm)	Mean length per turn (cm)	VA Rating*	Weight (kg)
803-1	6.45	15.2	213	3.87	31.2	3.52	1.10	14.8	83	1.1
803-2	9.68	15.2	248	3.87	46.9	3.52	1.10	17.3	119	1.5
803-3	10.08	19.0	333	6.09	76.21	4.42	1.38	18.3	183	2.1
803-4	15.12	19.0	388	6.09	114.3	4.42	1.38	21.5	261	3.0
803-5	14.52	22.9	479	8.69	158.0	5.33	1.63	22.0	348	3.6
803-6	19.36	22.9	532	8.69	210.8	5.33	1.63	24.5	448	4.5
803-7	19.76	26.7	652	14.85	293.3	6.67	2.23	25.6	599	5.6
803-8	28.23	26.7	745	14.85	419.2	6.67	2.23	29.4	820	7.7
803-9	29.13	32.4	962	21.86	637.0	8.10	2.70	30.9	1170	10.0
803-10	32.66	34.3	1078	21.50	800.1	8.57	2.86	32.7	1460	12.0
803-11	38.27	32.4	1282	21.86	1273.9	8.10	2.70	42.1	2180	19.0
803-12	64.50	38.1	1642	30.24	1950.5	9.53	3.18	45.7	3340	25.0
803-13	96.80	38.1	2003	30.24	2927.0	9.53	3.18	55.9	5000	36.0
803-14	116.20	45.8	2555	43.55	5060.0	11.43	3.81	58.9	8650	52.0
803-15	203.40	45.8	3513	43.55	8858.0	11.43	3.81	81.8	15000	85.0

*NOTE: VA rating based on 60 Hz operation

