
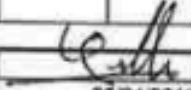


Annexe 4 : Transformateur 250 kVA

4.1. Plaque signalétique d'un transformateur 250 kVA

CG POWER SYSTEMS IRELAND Ltd. a Pauwels Transformer									
NR./No.		11111100363			NBN HD428.1 S1				
VERMOGEN PUISSANCE LEISTUNG	KVA	250		TYPE	KBE 200	JAAR/ANNEE/BAUJAHR	2011		
		HS/HT/OS	LS/BT/US	LS/BT/US	FREK. / FREQ. Hz		50		
SPANNING TENSION SPANNUNG	V	1	11970			KLASSE MAT. MAT. CLASSE MAT. CLASSE ISOL. NIVEAU NIV. ISOLEM. REIHE BEDRIJFSAARD MODE DE SEV. BETRIEB	A		
		2	11685				17.5		
		3	11400	420	243.2		CONTINUE		
		4	11115				3		
		5	10830				CU.		
		6					B		
		7					2		
STROOM COURANTS STROM	A	3	12.66	343.7	593.5	FASEN/PHASES/PHASEN WIKKEL MAT. MAT. ENROULEMENT WICKL. MAT TYPE WIKKEL TYPE ENROULM. TYP WICKLUNG	3		
							CU.		
KORTSLUITSPG TENSION C.C. KURZSCHL. SPG		%	4.27/3.95			KORTSLUITSTROOM COUR. C.C. KURZSCHL. STRM	kA		
SHAKELGROEP GROUP DE COUPLAGE SCHALTGRUPPE			Dyn 11 a11				KORTSLUITDUUR DUREE C.C. KURZSCHL. DAUER	s	
KOELINGSAARD REFROIDISS. KÜHLUNGSART			ONAN						
TOTALE MASSA MASSE TOTAL GESAMTGEWICHT		kg	1090	DIEL VLOEISTOF LIQ. DIELEC. ISOLIERFLÜSSIGKEIT		OLIE/HUILE	kg	210	
UITHEFB. DEEL MASSE DECUVÉE HERAUSHEB. TEIL		kg	635	TAG No.		NYNAS NYTRO LIBRA			

4.2. Fiche technique d'un transformateur 250 kVA

Norm: IEC60078/1-5				CG Power Systems Ireland Ltd.			
Trafo type: BEAkBo							
Customer :EANDIS - Item 14							
Testcertificate 11111602783							
Rated power		kVA		HV1-LV1	HV1-LV2	HV2-LV1	HV2-LV2
				250	250		
Rated frequency		Hz		50	50		
High voltage	Un1	V	11400	11400			
	In1	A	12.66	12.66			
Low voltage	Un2	V	420	243			
	In2	A	343.70	593.98			
Vector group				Dyn11a11			
Turns Ratio	Pos.1		49.38	85.28			
	2		48.22	83.28			
	3		47.03	81.24			
	4		45.86	79.19			
	5		44.69	77.19			
	6						
	7						
	8						
	9						
Rated position:				3	3		
Separate-source voltage	HV	kV	38	38			
	LV	kV	10	10			
Induced overvoltage		100 Hz	kV	0.84	0.486		
No-load losses	Un2	V	420				
	Io	A	0.85				
	Io (a)	A	0.74				
	Io (b)	A	0.52				
	Io (c)	A	0.68				
	Io%	%	0.19				
	Po	W	331				
	Guaranteed Po	W	360				
Ambient temperature		I	C	18.6	18.6		
Resistance (l)	HV		4478.8615	4476.9515			
	HV (A-B)	mOhm	4480.5010	4480.5010			
	HV (A-C)	mOhm	4478.5878	4478.5878			
	HV (B-C)	mOhm	4498.8657	4498.8657			
	LV	mOhm	4.8687	3.0367			
	LV (a-b)	mOhm	4.8800	3.0400			
	LV (a-c)	mOhm	4.8700	3.0500			
	LV (b-c)	mOhm	4.8500	3.0200			
Load losses (l)	Usc	V	507.73	472.00			
	In1	A	12.66	12.66			
	Psc	W	2118	2932			
Position:				3	3		
Load losses (75 C)	RI2HV	W	1326	1326			
	RI2LV	W	1054	1984			
	Diff	W	146	202			
	Psc	W	2526	3492			
	Guaranteed Psc	W	2350	3410			
Impedance voltage (75 C)	Ur%	%	1.01	1.40			
	Ux%	%	4.37	3.97			
	Ucc%	%	4.49	4.21			
	Guaranteed Ucc%	%	4.20	4.00			
This transformer is PCB-free (< 1 ppm).							
Approved				Transformer Number: 11111602783			
Date		20/04/2016		Design Number: EM03901			
Leaktest OK		Po%: 91.94	Psc%: 107.49	Ucc%: 106.9			