



28 JULI 2017

Die Transformator-Manufaktur

HTT · Postfach 1347 · 34333 Hann. Münden

Hitec Power Protection BV
Bedrijvenpark Twenthe 40
7602 KB Almelo
NIEDERLANDE

Customer no. 50001
Contact Lutz Hasenkopf
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Date 25.07.2017

Invoice 17-00116

Your VAT- no.: NL804231849B01
Your P/O: 1234211 dd. 25.04.2017
Delivery free site Almelo, w/o unloading

Delivery address Hitec Power Protection BV Bedrijvenpark Twente 75 7602KD
Almelo

1 unit **Three-phase-cast-resin-inductor**
Delivery note 101712 dd. 21.07.2017
pos. 1
Type GDIN 1200 / 17.5 - 2
Serial-No. 17 38488 21.500,00 € 21.500,00 €

Net price total 21.500,00 €
VAT 0 % 0,00 €

Invoice total 21.500,00 €

Payment net within 60 days after date of invoice.
Bank account Sparkasse Werra-Meißner in Eschwege
BLZ 522 500 30, Konto 500 16328
S.W.I.F.T.-Code HELA DE F1 ESW
IBAN DE29 5225 0030 0050 0163 28

Delivery inside the European Union !!!

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Customer : HITEC Power Protection , Almelo, Netherlands

Rating

Rated power (kVA)	1128			
Rated voltage (V)		15000		
Rated current (A)		50		
Um (kV)	17,5			
LI / AC (kV)	95 / 38			
Terminal/position	see rating plate			
Highest voltage (V)	15000	Vector-group Protection Type	III IP 21 GDIN1128/17,5-2	Cooling method Year of manufacture IEC / VDE
Rated frequency (Hz)	50			AN 2017 60289 / 0532
Total-weight (kg)	3600			
Thermal class HV/LV	F			
short time duty 79,2 A 1 hour / 10 hour				
Winding ratio Np / (Np+Ns): 75%				

Dielectric test

Separate-source voltage withstand test

Connection	U (V)	f (Hz)	t (sek.)
U1 - V1 -W1	38000	50	60

Resistance measuring

1U - 2U (Milliohm)	1V - 2V (Milliohm)	1W - 2W (Milliohm)	T (°C)
317	318	316	25
U3 - U2 (Milliohm)	V3 - V2 (Milliohm)	W3 - W2 (Milliohm)	T (°C)
65,4	65,2	65,0	25

Impedance-measuring

Terminal	Um (V)	Im (A)	XL (Ohm)	L (Henry)	T (°C)	
U1 - V1 -W1	4343	34,98	71,7	0,228	25	Starpoint on U2 - V2 - W2
U1 - V1 -W1	1983	27,65	41,4	0,132	25	Starpoint on U3 - V3 - W3
U2 - V2 -W2	521,6	69,2	4,4	0,014	25	Starpoint on U3 - V3 - W3

Winding ratio measuring

Winding ratio	U (%)	V (%)	W (%)
1 - 2 / 1 - 3	75	75	75