



GEMM_D

THREE PHASE STATIC EXCITER

Fuse protection on mains
 Fuse holder / breaker for safety
 Natural air cooling for improved reliability

LINE VOLTAGE UP TO 575 V
DC OUTPUT CURRENT 80 A

			GEMM3D08..
Line to line voltage			575 V

BRIDGE CHARACTERISTICS

Characteristic		Conditions		Value
I _{DC}	DC output current	T _a = 40 °C		80 A
I _{DC}	DC output current	T _a = 50 °C		75 A
V _{INS} (rms)	Insulation voltage			3000 V
P	Total power dissipation, max			270 W

DIODE CHARACTERISTICS

V _{RRM}	Blocking Voltage	T _j = 150 °C			1600 V
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MECHANICAL AND THERMAL CHARACTERISTICS

W	Width				213 mm
D	Depth	fuse holder close (open)			122 (150) mm
H	Height				553 mm
m	Mass				kg
T _a max	Max amb. op. Temp.				40 °C
T _{stg}	Storage temperature				-40 / 60 °C

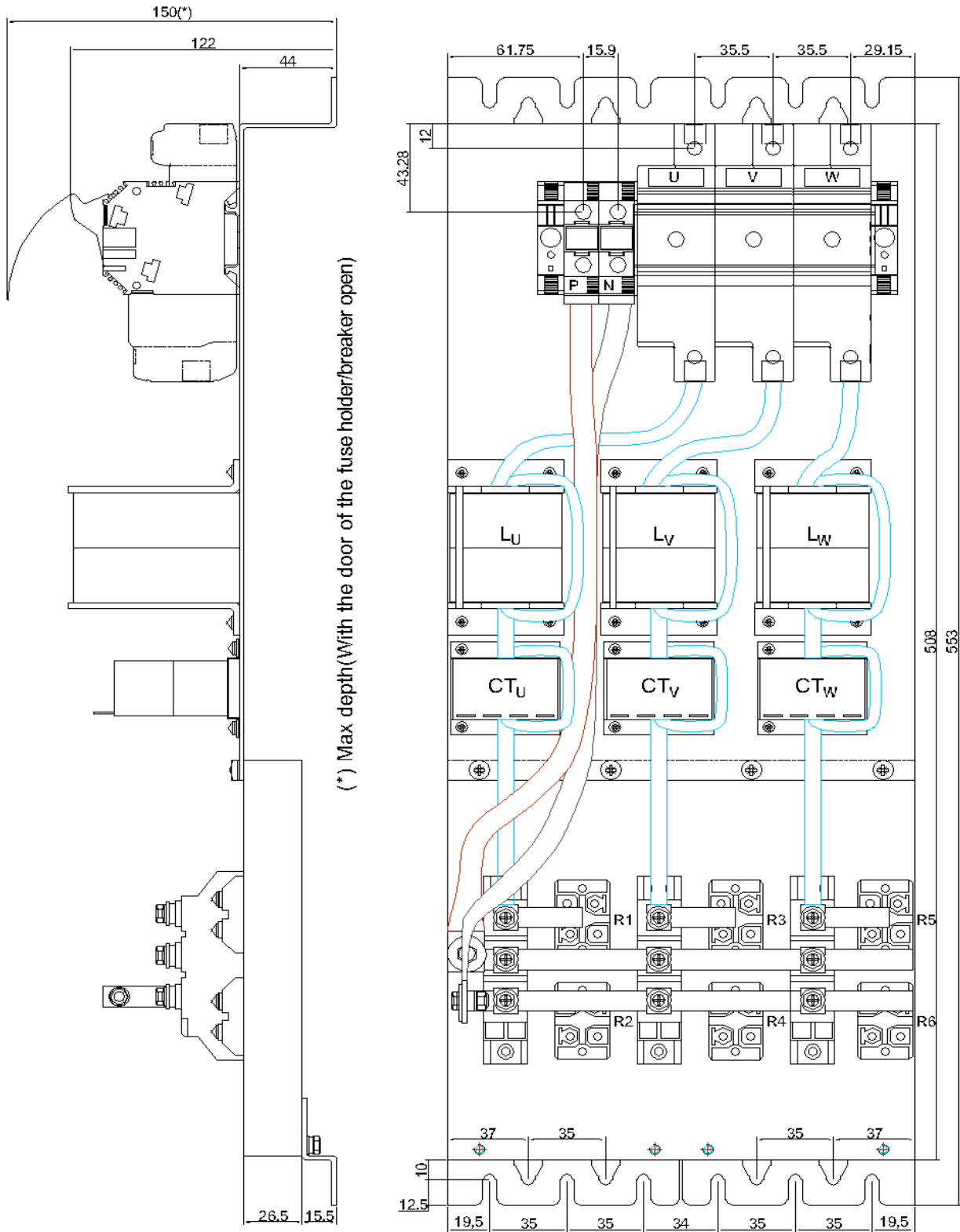
FUSE TYPE 22 x 58 mm gR 690 V

			A	B	C
I _{NF}	Rated current		40 A	50 A	63 A
I ² _t	Total I ² _t	At 660 V	0.61 kA ² s	0.91 kA ² s	0.116 kA ² s

			D	E	F
I _{NF}	Rated current		80 A	100 A	125 A
I ² _t	Total I ² _t	At 660 V	4.4 kA ² s	8.9 kA ² s	22 kA ² s

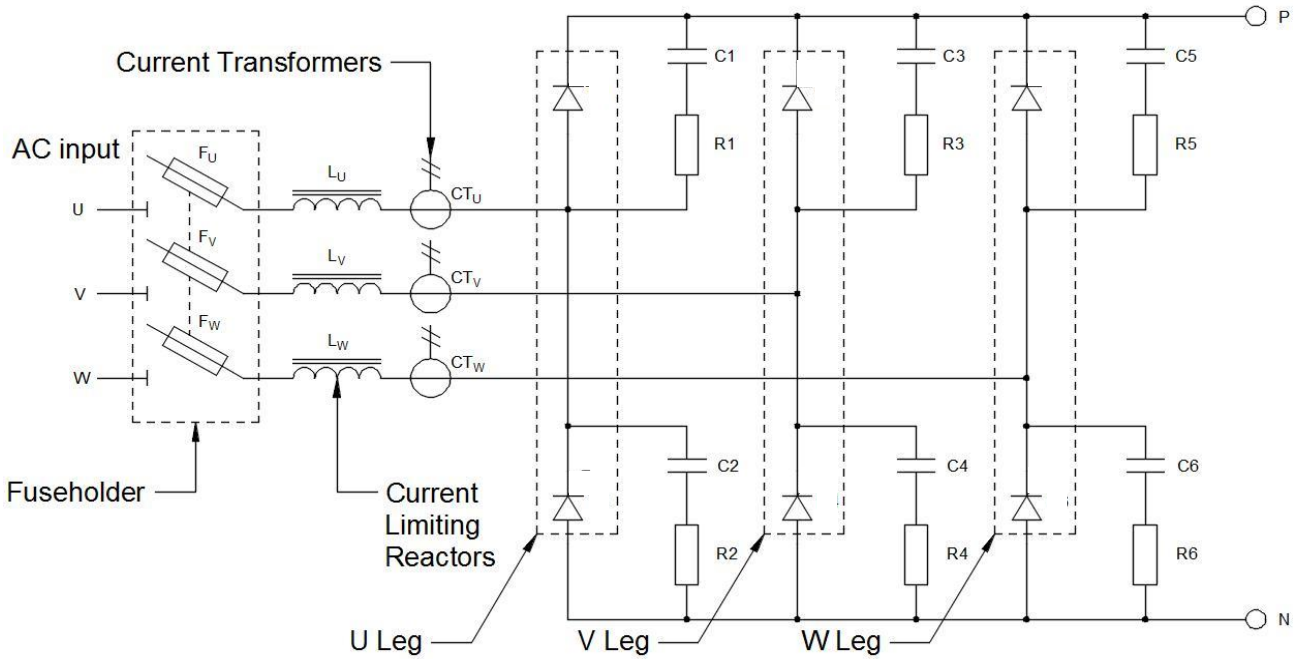
CURRENT TRANSFORMER GTA01005-02

N	Turns ratio		125 - 250 - 500 :1
I _n	Nominal current	RMS value	25 - 50 - 100 A
R _L	Load resistance		20 Ω
V _o	Max RMS output voltage	R = 20 Ω	4 V
V _{ins}	RMS insulation voltage	50 Hz - 60 s	4 kV

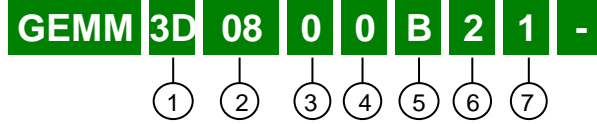


In the interest of product improvement Green Power Solutions reserves the right to change any specification given in this data sheet without notice.

Six pulse uncontrolled rectifier bridge circuit



PART-NUMBERING SYSTEM



- ① Circuit configuration - see table below (*)
- ② Output current / 10
- ③ 0 = no CT - 2 = 2 CT's (on phases U and W) - 3 = 3 CT's
- ④ number of turns around CT: 0, 1, 2, 3
- ⑤ fuse choice : A,B,C,D,E,F
- ⑥ number of current limiting reactors: 0, 2
- ⑦ number of turns around current limiting reactors: 0, 1, 2

The number of turns is calculated as number of times the lead passes through the center

(*) Circuit configuration table	
3D	six pulse uncontrolled bridge

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