

Date : Mar.06,2024

Temperature increase of main components: 主要部品温度上昇

Model: HFA3500TF

1. Conditions

- (1) Input : 3Φ3-WIRE 180 ~ 528 [VAC]
- (2) Output : Rated output
- (3) Mounting method : As shown in Fig.1.1

2. Result

No.	Parts name	Symbol No.	Increase (ΔT)						Rated temp. [°C]	Reference
			[deg]							
			48V	65V						
1	Line filter	L11	15	15					130	
2	Rectifier(Input)	SS12	74	75					150	Junction Temp.
3	IGBT(Input)	TR102	49	48					150	Junction Temp.
4	Relay	X101	10	10					130	
5	Diode(PFC)	SS101	61	64					150	Junction Temp.
6	Switching transistor(PFC)	TR105	77	81					175	Junction Temp.
7	Switching transistor(PFC)	TR106	75	81					175	Junction Temp.
8	Choke coil(PFC)	L101	34	39					130	
9	Input capacitor	C174	11	11					105	
10	Switching transistor(DD)	TR301	53	55					175	Junction Temp.
11	Switching transistor(DD)	TR303	52	54					175	Junction Temp.
12	Choke coil(DD)	L301	57	63					130	
13	Transformer	T401	72	59					155	
14	Rectified transistor(Output)	TR511	58	70					175	Junction Temp.
15	Rectified transistor(Output)	TR512	58	71					175	Junction Temp.
16	ORMOS	TR524	55	43					175	Junction Temp.
17	Output choke	L501	56	59					130	
18	Output capacitor	C504	37	33					105	
19										
20										



Fig.1.1 Mounting method
(Normal position)

*All information presented herein are not guaranteed.

*本資料は参考資料であり、その内容を保証するものではありません。