

APPROVAL SHEETS

Customer 上海雷爾盾電氣有限公司

Customer No. H7690108

Description EMI /RFI FILTER

Product Name 20SS1-FH3R-Q

Project No. 20SS1-FH3R-Q **Rev:**2.0

Our Part No. 510201001981100

Your Part No.

Safety Approvals

Date 29-Mar-22

Note: The validity of specification is 6 months from the date.

Approved by customer		

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SPECIFICATION

1. Revision history

Customer P/N	20SS1-FH3R-Q		Rev.	2.0	Part NO.	20SS1-FH3R-Q
Part name	EMI FILTER	PRJ			HAL model	20SS1-FH3R-Q

Rev.	Description	Validating Date	Page	Approved
1.0	INITAL RELEASE	18-May-21	1~6	James
2.0	Change the label	29-Mar-22	6	James

Prepared by	Reviewed by	Approved by
LiuXia		

SPECIFICATION

2. Customer specification compliance checklist

Part name	EMI FILTER		
Customer part number	20SS1-FH3R-Q		
HAL model number	20SS1-FH3R-Q	PRJ	

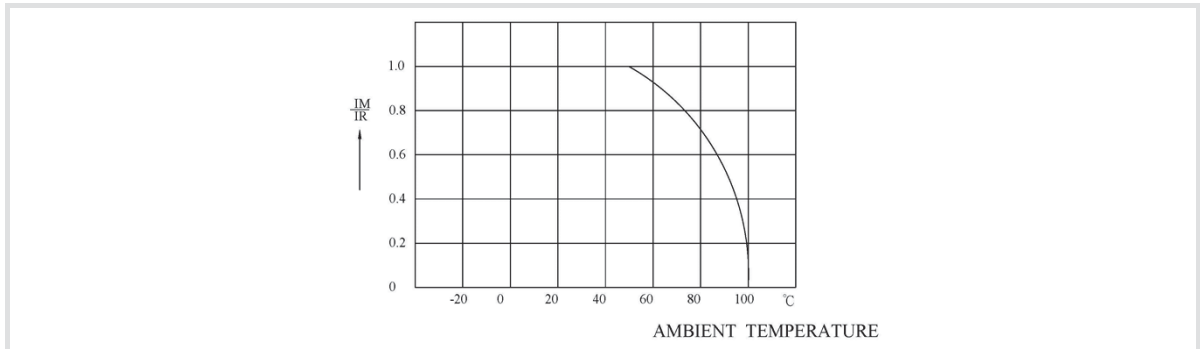
Customer specification review

No.	Description			
	Function and arer of application			
	EMI FILTER			
1	General requirements	Single		
2	Allowable input voltage range:	85~275	VAC	
3	Operating frequency:	50/60Hz		
4	Current rating:	20A	@50°C	
5	AC leakage current:	0.25mA	@115VAC/60Hz	0.45mA @250VAC/50Hz
6	Inrush Current:	Products used in 50/60Hz power system, the maximum current of 50 times the rated current is allowed in the 1/4 cycle.		
7	Function Requirements			
	Common mode inductor Σ :	0.6	mH	-30%~+50% @100KHz 0.25V
	Differential mode inductor Σ :	N/A	mH	-30%~+50% @100KHz 0.25V
	Grounding inductor Σ :	N/A	mH	-30%~+50% @100KHz 0.25V
	Common mode capacitors Σ :	4400	pF	-20%~+20% @1KHz 1V
	Differential mode capacitors Σ :	0.22	uF	-10%~+10% @1KHz 1V
	Resistor Σ :	1	M Ω	-10%~+10% @1KHz 1V
8	MTBF@50°C/250V(Mil-HB-217F)	1,753,000	Hours	
9	Safety Requirements:			
	Hi-pot L-L:	N/A	VDC	N/A Second
	Hi-pot L-N:	1450	VDC	2 Second
	Hi-pot L-G:	2250	VDC	2 Second
	Hi-pot N-G:	2250	VDC	2 Second
	IR:	100M Ω Min @500VDC any input or output to ground If the discharge resistor cannot be disconnected without the filter being destroyed, the test shall be omitted for lot-by-lot tests		
	DCR:	2 Ω Max @input to output		
	GB:	100m Ω Max @25A		
	Ambient Temperature:	@50°C		
	Operating Temperature:	-25°C~110°C		
	Climatic Category:	25/110/21		
10	Design corresponding to:	UL1283,IEC/EN60939		
11	Safety Approvals			
	UL/CUL File No:	E179761		
	VDE File No:	40008353(SS1)		
	CQC File No:	CQC09001033434(SS1)		
	CE DOC:	See attachment		
	UKCA DOC:	See attachment		
12	Declare:	Comply with RoHS 2011/65/EU.2015/863/EU and REACH 2006/1907/EC Comply with IEC60320		

3. Derating curve of current

When ambient temperature is over 50°C, maximum applied current depends upon the following curve

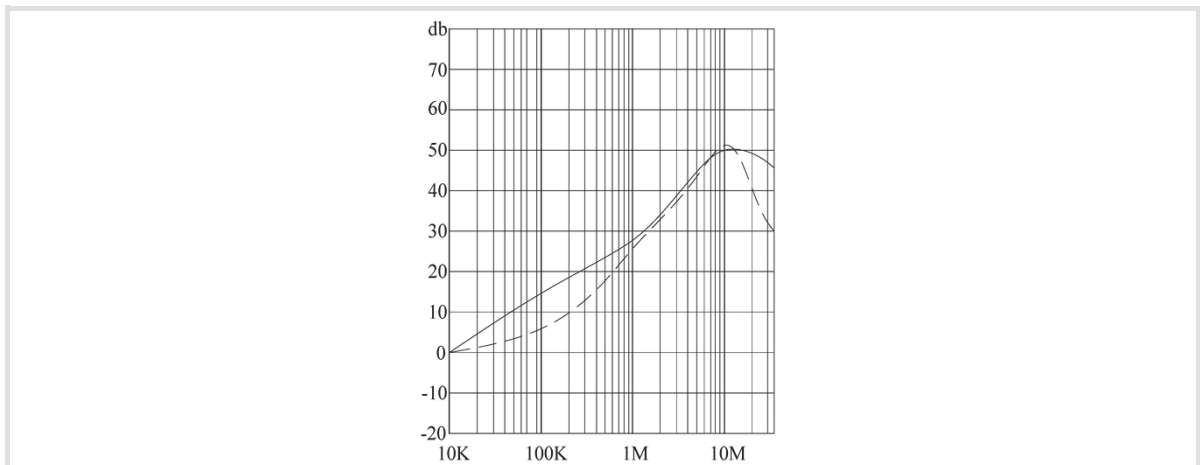
IM: Maximum current
IR Rated current 20A@50°C



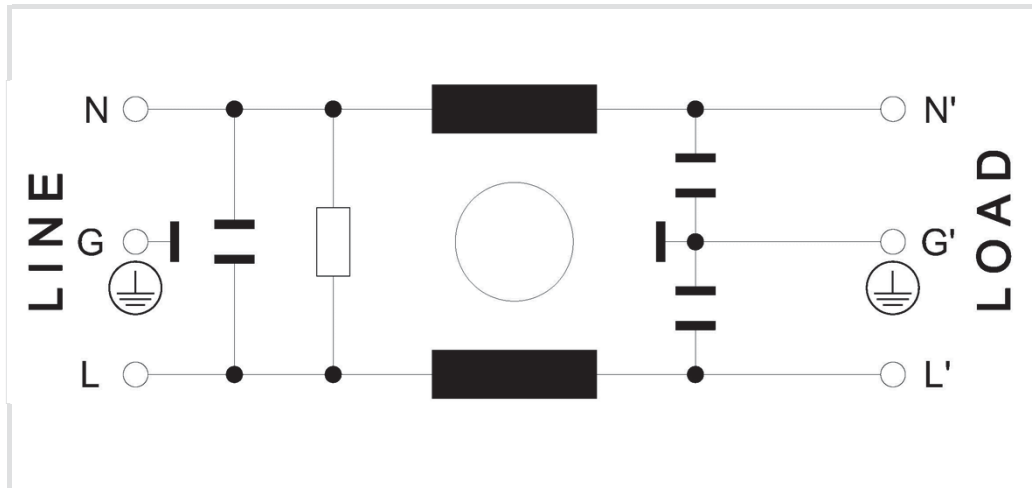
4. Typical filter attenuation

Insertion loss (dB) in 50Ω system cispr 17

- Common mode/Asymmetrical(L-G)
- Differential mode/Symmetrical(L-L)



5. Electrical schematic



6. Label

Content of the label :



7.Mechanical dimensions:

