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REPORT

on

COMPONENT - ELECTROMAGNETIC INTERFERENCE FILTERS

SCHURTER AG
Luzern, Switzerland

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DESCRIPTION

PRODUCT COVERED:

USR, CNR - Component, Appliance Filters, Chokes models DFK2-17,5-0,5-10/a, DFK2-20-1-10/a, DFK2-20-1-20/a, DFK2-25-1,0-10/a, DFK2-25-2,0-10/a, DFK2-33-2-20/a, DFK2-33-3-10/a, models DFK- f/b 40- f/b 0003 or 0004 or 0005, DFKF2-18-0.4-40/A, DFKF2-18-0.6-15/A, DFKF2-18-1.2-6.8/A, DFKF2-18-1.5-3.3/A, DFKF2-18-2.0-1.8/A, DFKF2-18-4.0-0.7/A, DFKF2-28-0.6-40/A, DFKF2-28-1.0-20/A, DFKF2-28-1.4-27/A, DFKF2-28-2.0-6.0/A, DFKF2-28-4.0-1.5/A, DFKF2-28-6.3-0.6/A, models DKFP-6248- f/b D504 or 0102 or 02D5 or D504 or 0102 or 02D5, models DFKH- f/b 14-, f/b 0001 or 0002 or 0003, models DFKH- f/b 22-, f/b 0001 or 0002 or 0003 or 0004 or 0005 or 0006 or 0007 or 0008, models DKIP- f/b 0229-, f/b 1005 or 1502 or 2001, models DKIP- f/b 0231-, f/b 1012 or 1505 or 2003, models DKIP- f/b 0233-, f/b 3005 or 4003 or 5002, models DKIL- f/b 0231-, f/b 1012 or 1505 or 2003, models DKIL- f/b 0246-, f/b 1005 or 1502 or 2001, models DKLP- f/b 0229-, f/b 0460 or 0540 or 0720, models DKLL- f/b 0246-, f/b 0430 or 0614

GENERAL:

These devices are EMI filters intended for incorporation in appliances. They are housed in a plastic housing and incorporate with terminals for factory wiring.

ELECTRICAL RATINGS:

* MODEL NO.	VOLTAGE (V)	FREQUENCY (Hz)	CURRENT (A)	PHASES	MAX.AMBIENT TEMP AT RATED CURRENT (°C)	COLD AMBIENT TEMP (°C)
DFK2-17,5-0,5-10/a	250	50/60	0.5	1	40	-25
DFK2-20-1-10/a	250	50/60	1.0	1	40	-25
DFK2-20-1-20/a	250	50/60	1.0	1	40	-25
DFK2-25-1,0-10/a	250	50/60	1.0	1	40	-25
DFK2-25-2,0-10/a	250	50/60	2.0	1	40	-25
DFK2-33-2-20/a	250	50/60	2.0	1	40	-25
DFK2-33-3-10/a	250	50/60	3.0	1	40	-25
DFK-40-0003	250	50/60	6.0	1	40	-25
DFK-40-0004	250	50/60	10	1	40	-25
DFK-40-0005	250	50/60	15	1	40	-25
DFKF2-18-0.4-40/A	250	50/60	0.4	1	40	-25
DFKF2-18-0.6-15/A	250	50/60	0.6	1	40	-25
DFKF2-18-1.2-6.8/A	250	50/60	1.2	1	40	-25
DFKF2-18-1.5-3.3/A	250	50/60	1.5	1	40	-25
DFKF2-18-2.0-1.8/A	250	50/60	2	1	40	-25
DFKF2-18-4.0-0.7/A	250	50/60	4.0	1	40	-25
DFKF2-28-0.6-40/A	250	50/60	0.6	1	40	-25
DFKF2-28-1.0-20/A	250	50/60	1.0	1	40	-25
DFKF2-28-1.4-27/A	250	50/60	1.4	1	40	-25
DFKF2-28-2.0-6.0/A	250	50/60	2.0	1	40	-25
DFKF2-28-4.0-1.5/A	250	50/60	4.0	1	40	-25
DFKF2-28-6.3-0.6/A	250	50/60	6.3	1	40	-25
DKFP-6248-D504	250	50/60	0.5	1	40	-25
DKFP-6248-0102	250	50/60	0.9	1	40	-25
DKFP-6248-02D5	250	50/60	2.0	1	40	-25
DKFS-6248-D504	250	50/60	0.5	1	40	-25
DKFS-6248-0102	250	50/60	0.9	1	40	-25
DKFS-6248-02D5	250	50/60	2.0	1	40	-25
DFKH-14-0001	250	50/60	0.6	1	40	-25
*DFKH-14-0002	250	50/60	1.0	1	40	-25
*DFKH-14-0003	250	50/60	2.0	1	40	-25
DFKH-22-0005	250	50/60	6.3	1	40	-25
DFKH-22-0001	250	50/60	0.45	1	40	-25
DFKH-22-0004	250	50/60	4.0	1	40	-25
DFKH-22-0002	250	50/60	1	1	40	-25
DFKH-22-0003	250	50/60	2.0	1	40	-25

*MODEL NO.	VOLTAGE (V)	FREQUENCY (Hz)	CURRENT (A)	PHASES	MAX.AMBIENT TEMP AT RATED CURRENT (°C)	COLD AMBIENT TEMP (°C)
*DFKH-31-0001	250	50/60	0.6	1	40	-25 0
*DFKH-31-0002	250	50/60	1.0	1	40	-25
*DFKH-31-0003	250	50/60	1.4	1	40	-25
*DFKH-31-0004	250	50/60	1.6	1	40	-25
*DFKH-31-0005	250	50/60	2.0	1	40	-25
*DFKH-31-0006	250	50/60	2.5	1	40	-25
*DFKH-31-0007	250	50/60	4.0	1	40	-25
*DFKH-31-0008	250	50/60	6.0	1	40	-25
*DKIP-0229-1005	250	50/60	10	1	40	-25
*DKIP-0229-1502	250	50/60	15	1	40	-25
*DKIP-0229-2001	250	50/60	20	1	40	-25
*DKIP-0231-1012	250	50/60	10	1	40	-25
*DKIP-0231-1505	250	50/60	15	1	40	-25
*DKIP-0231-2003	250	50/60	20	1	40	-25
*DKIP-0233-3005	250	50/60	30	1	40	-25
*DKIP-0233-4003	250	50/60	40	1	40	-25
*DKIP-0233-5002	250	50/60	50	1	40	-25
*DKIL-0231-1012	250	50/60	10	1	40	-25
*DKIL-0231-1505	250	50/60	15	1	40	-25
*DKIL-0231-2003	250	50/60	20	1	40	-25
*DKIL-0246-1005	250	50/60	10	1	40	-25
*DKIL-0246-1502	250	50/60	15	1	40	-25
*DKIL-0246-2001	250	50/60	20	1	40	-25
*DKLP-0229-0430	250	50/60	4	1	40	-25
*DKLP-0229-0614	250	50/60	6	1	40	-25
*DKLP-0231-0460	250	50/60	4	1	40	-25
*DKLP-0231-0540	250	50/60	5	1	40	-25
*DKLP-0231-0720	250	50/60	7	1	40	-25
*DKLP-0233-2012	250	50/60	20	1	40	-25
*DKLL-0231-0460	250	50/60	4	1	40	-25
*DKLL-0231-0540	250	50/60	5	1	40	-25
*DKLL-0231-0720	250	50/60	7	1	40	-25
*DKLL-0246-0430	250	50/60	4	1	40	-25
*DKLL-0246-0614	250	50/60	6	1	40	-25

ENGINEERING CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

USR indicates the filters have been evaluated to the Standard for Electromagnetic Interference Filters, UL 1283, Sixth Edition.

CNR indicates investigation to the requirements of the Canadian Standard for Electromagnetic Interference (EMI) Filters, CSA C22.2 No. 8-13, Fifth Edition.

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CONDITIONS OF ACCEPTABILITY:

General - The components covered by this Report are Component Appliance Filters intended to be used in the end-use product where the acceptability of the combination with the end-use product has been determined by UL LLC.

The following items should be considered in the end use product engineering evaluation.

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1. The filter shall be installed within an overall enclosure suitable for the end product application.
2. The filter shall be installed in compliance with the mounting, terminal, spacing and segregation of the end application.
3. The leakage current shall be measured in the end use product to determine compliance with the applicable requirements.
4. Spacings between terminals and dead metal parts should comply with the end product requirements.
5. This filter employs Class A (105°C) insulation system.
6. The filters have not been evaluated for use in circuits supplied from a voltage source with a line to line potential greater than 250 Vac.
7. The components were submitted and evaluated at a maximum manufacturer's recommended ambient as indicated in the Electrical Ratings Table. The need for additional testing if these devices are used above this rating shall be considered in the end-use application.
8. The Abnormal Operation/Limited Short Circuit Test (UL 1283, Cl. 32; CSA C22.2 No. 8, Cl. 6.14) was performed on the following models using a short circuit current and fuse rating as indicated below. The devices are suitable for use on a circuit capable of delivering not more than the specified rms symmetrical amperes when used with the fuse ratings indicated.

Model	Represented Models	Available Short circuit Current Rating (Amps, rms)	Fuse rating (A)
DFK-40-0003	DFK-40-0003	6	15
DFK-40-0004	DFK-40-0004	10	15
DFK-40-0005	DFK-40-0005	15	20

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The Abnormal Operation Test was not conducted on the following models. The need for this device to comply with this requirement must be considered in the end-use application.

MODELS			
DFK2-17,5-0,5-10/a	DFKH-14-0001		DKIP-0233-3005
DFK2-20-1-10/a	DFKH-14-0002		DKIP-0233-4003
DFK2-20-1-20/a	DFKH-14-0003		DKIP-0233-5002
DFK2-25-1,0-10/a	DFKH-22-0005		
DFK2-25-2,0-10/a	DFKH-22-0001		DKIL-0231-1012
DFK2-33-2-20/a	DFKH-22-0002		DKIL-0231-1505
DFK2-33-3-10/a	DFKH-22-0003		DKIL-0231-2003
	DFKH-22-0004		
DFKF2-18-0.4-40/A			DKIL-0246-1005
DFKF2-18-0.6-15/A	DFKH-31-0001		DKIL-0246-1502
DFKF2-18-1.2-6.8/A	DFKH-31-0002		DKIL-0246-2001
DFKF2-18-1.5-3.3/A	DFKH-31-0003		
DFKF2-18-2.0-1.8/A	DFKH-31-0004		DKLP-0229-0430
DFKF2-18-4.0-0.7/A	DFKH-31-0005		DKLP-0229-0614
	DFKH-31-0006		
DFKF2-28-0.6-40/A	DFKH-31-0007		DKLP-0231-0460
DFKF2-28-1.0-20/A	DFKH-31-0008		DKLP-0231-0540
DFKF2-28-1.4-27/A			DKLP-0231-0720
DFKF2-28-2.0-6.0/A	DKIP-0229-1005		DKLP-0233-2012
DFKF2-28-4.0-1.5/A	DKIP-0229-1502		
DFKF2-28-6.3-0.6/A	DKIP-0229-2001		DKLL-0231-0460
			DKLL-0231-0540
DKFP-6248-D504	DKIP-0231-1012		DKLL-0231-0720
DKFP-6248-0102	DKIP-0231-1505		
DKFP-6248-02D5	DKIP-0231-2003		DKLL-0246-0430
DKFS-6248-D504			DKLL-0246-0614
DKFS-6248-0102			
DKFS-6248-02D5			

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