File E531977
Project 4790670816

July 23, 2024

REPORT

on

COMPONENT - Terminal Blocks

MEGA RADAR
34773 ISTANBUL - TURKEY

DESCRIPTION

PRODUCT COVERED:

USR, CNR Component - Terminal Blocks, Series SBDK 3.81 f/b -D f/b /2 through /12

USR, CNR Component - Terminal Blocks, Series SKBK 3.81 f/b -KB f/b /2 through /12

USR, CNR Component - Terminal Blocks, Series SBDK 3.81 f/b -E1, -E2 f/b /2 through /12

USR, CNR Component - Terminal Blocks, Series SBDK 5.08 f/b -D, -DD f/b /2 through /12

USR, CNR Component - Terminal Blocks, Series SKBK 5.08 f/b -KB f/b /2 through /12

USR, CNR Component - Terminal Blocks, Series SBDK 5.08 f/b -E1, -E2, -E1A, -E2A f/b /2 through /12

USR, CNR Component - Terminal Blocks, Series SBDK 7.62 f/b -D, -DD f/b /2 through /12

USR, CNR Component - Terminal Blocks, Series SKBK 7.62 f/b -KB f/b /2 through /12

USR, CNR Component - Terminal Blocks, Series SBDK 7.62 f/b -E1, -E2 f/b /2 through /12

GENERAL CHARACTER AND USE:

The terminal blocks covered by this Report are intended for use in the following applications and within the ratings specified.

RATINGS:

Application -

Commercial appliances (such as business and EDP equipment, etc.).

Industrial control devices having limited ratings.

Terminal Type -

Series	Type	Input	Output
SBDK 3.81	D	Pressure Wire Connector	Socket Contacts for use with Male Pin
SKBK 3.81	KB	Pressure Wire Connector	Male Pin for use with Socket Contacts
SBDK 3.81	E1, E2	Male Pin for use with Socket Contacts	Soldering Post
SBDK 5.08	D, DD	Pressure Wire Connector	Socket Contacts for use with Male Pin
SKBK 5.08	KB	Pressure Wire Connector	Male Pin for use with Socket Contacts
SBDK 5.08	E1, E2 E1A, E2A	Male Pin for use with Socket Contacts	Soldering Post
SBDK 7.62	D, DD	Pressure Wire Connector	Socket Contacts for use with Male Pin
SKBK 7.62	KB	Pressure Wire Connector	Male Pin for use with Socket Contacts
SBDK 7.62	E1, E2	Male Pin for use with Socket Contacts	Soldering Post

Devices with suffix D, DD, KB are suitable for field and factory-wiring.

Devices with suffix E1, E2, E1A, E2A are suitable for factory-wiring only.

RATINGS:

Series	Type	Wire Range AWG	Wire Type	FW	Torque N·m (in-lbs)	Voltage V	Current A	UG	CA
SBDK 3.81	D	22-16 SOL/STR	Cu	2	0.20 (1.8)	300	10	B, D	2(65), 4
SKBK 3.81	KB	22-16 SOL/STR	Cu	2	0.20 (1.8)	300	5	B, D	2(65), 4
SBDK 3.81	E1, E2	N/A	Cu	1	N/A	300	10	B	2(65)
SBDK 5.08	D, DD	22-14 SOL/STR	Cu	2	0.40 (3.6)	300	15	B	2(65), 4
						300	10	D	
SKBK 5.08	KB	22-14 SOL/STR	Cu	2	0.40 (3.6)	300	15	B	2(65), 4
						300	10	D	
SBDK 5.08	E1, E2 E1A, E2A	N/A	Cu	1	N/A	300	15	B	2(65)
						300	10	D	
SBDK 7.62	D, DD	22-14 SOL/STR	Cu	2	0.40 (3.6)	150	15	C	2(65), 4
						300	15	B	
						300	10	D	
						600	5	D	
SKBK 7.62	KB	22-14 SOL/STR	Cu	2	0.40 (3.6)	150	15	C	2(65), 4
						300	15	B	
						300	10	D	
						600	5	D	
SBDK 7.62	E1, E2	N/A	Cu	1	N/A	150	15	C	2(65)
						300	15	B	
						300	10	D	

Note (#) for Usage Group D: These limited ratings are applicable to a terminal block for use in or with industrial control equipment whereby the load on any single circuit of the terminal block does not exceed 15 A at 51-150 V, 10 A at 151-300 V, or 5 A at 301-600 V, or the maximum ampere rating, whichever is less.

STRIP length - recommended:
For Series SBDK, 3.81 mm pitch - strip length: 6.8 mm
For Series SBDK, 5.08 mm pitch - strip length: 7.0 mm
For Series SBDK, 7.62 mm pitch - strip length: 7.0 mm

Series

SBDK 3.81, SKBK 3.81, SBDK 3.81 f/b E
SBDK 5.08, SKBK 5.08, SBDK 5.08 f/b E
SBDK 7.62, SKBK 7.62, SBDK 7.62 f/b E

SBDK	3.81	-D	/12			
I	II	III	IV			

I. Series Designation
SBDK: pressure wire connector, female
SKBK: pressure wire connector, male
SBDK f/b E: pin and soldering post

II. Pitch between soldering Pins.
3.81 = 3.81 mm
5.08 = 5.08 mm
7.62 = 7.62 mm

III. Type and Gender of the device

D for input screw and female socket (90° orientation)
DD for input screw and female socket (180° orientation)

KB for input screw and male contact

E1 for input male pin and solder pin, side panel (90° orientation)
E2 for input male pin and solder pin, side panel (180° orientation)

E1A for input male pin and solder pin, no side panel (90°)
E2A for input male pin and solder pin, no side panel (180°)

IV. Number of Pole
Min 2, Max 12

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

Products designated USR have been investigated using requirements contained in UL Standard.
Products designated CNR have been investigated using requirements contained in Canadian Standard.

Conditions of Acceptability -

For use only in (or with) complete equipment where the acceptability of the combination is determined by UL LLC.

1. The insulating bodies are molded of polymeric materials, as specified in the following tabulation. The suitability of these materials shall be determined in the end use application.

Series	Manufacturer	Material Designation	Base Material Temp Rating
ALL	Confidential Information	Confidential Information	65°C

2. The devices suitable for field wiring terminals have been evaluated using the Standard for Equipment Wiring Terminals For Use With Aluminum and/or Copper Conductors, UL 486E. The suitability of these terminals shall be determined in the end-use investigation.

3. The tightening torque for field wiring cage clamp terminals is recorded in the Ratings section of this Report. This torque value shall be marked on the end-use product for those categories which require torque markings for field terminated conductors.

4. The pin and socket contacts used in these terminal blocks have not been investigated for current-interruption (make and break under load).

5. The spacings and mounting onto the PCB (Printed Circuit Board) have not been evaluated. The suitability of the connections shall be judged in the end-use application.

6. For a 2 piece terminal block, a header having a voltage rating less than the detachable terminal block, may be used at the higher voltage when subjected to a suitable evaluation for the higher voltage in the end-use investigation.