

**STEVAL-ISA029V1 Bill Of Material.**

<b>Reference</b>	<b>Value</b>	<b>Description</b>
F <sub>1</sub>	250V – 1.5A	Fuse
RT <sub>1</sub>	NTC 50	NTC
INPUT FILTER		
C <sub>1</sub>	100 nF	
C <sub>2</sub>	100 nF	
L <sub>1</sub>	10 mH	Common Mode Choke
RESISTORs		
R <sub>1</sub>	15 kΩ	2W
R <sub>2</sub>	10 Ω	
R <sub>3</sub>	5.6 kΩ	
R <sub>4</sub>	1 kΩ	
R <sub>5</sub>	1 kΩ	
R <sub>6</sub>	1 kΩ	
R <sub>7</sub>	18 kΩ	
R <sub>8</sub>	2.2 kΩ	
R <sub>9</sub>	47 kΩ	
R <sub>10</sub>	4.7 kΩ	
R <sub>11</sub>	820 Ω	
R <sub>12</sub>	330 Ω	
R <sub>13</sub>	470 Ω	2W
R <sub>14</sub>	0 Ω	
R <sub>15</sub>	180 Ω	1W
CAPACITORs		
C <sub>3</sub>	47uF µF 400V	Elec. Capacitor
C <sub>4</sub>	4.7 nF 400V	Ceramic Capacitor
C <sub>5</sub>	100 nF	Ceramic Capacitor
C <sub>6</sub>	22 µF 25V	Elec. Capacitor
C <sub>7</sub>	100 nF	Ceramic Capacitor
C <sub>8</sub>	4.7 nF	Ceramic Capacitor
C <sub>9</sub>	10 nF	Ceramic Capacitor
C <sub>10</sub>	68 nF	Ceramic Capacitor
C <sub>11</sub>	100 nF	Ceramic Capacitor
C <sub>12</sub>	2.2 nF	Y1 Capacitor
C <sub>13</sub>	N.M.	Ceramic Capacitor
C <sub>14</sub>	100 nF	N.M.
C <sub>15</sub>	4.7 µF 25V	Elec. Capacitor
C <sub>16</sub>	100 nF	Ceramic Capacitor
C <sub>17</sub>	2.2 nF 1kV	Ceramic Capacitor
C <sub>out1</sub>	22 µF 100V	Elec. Capacitor
C <sub>out2</sub>	330 µF 25V	Elec. Capacitor
C <sub>out3</sub>	1500 µF 16V	Elec. Capacitor

DIODEs		
D <sub>1</sub>	STTH102	High efficiency ultrafast diode
D <sub>2</sub>	DF06M	1A Bridge rectifier
D <sub>3</sub>	TRANSIL	N.M.
D <sub>4</sub>	STTH102	High efficiency ultrafast diode
D <sub>5</sub>	STTH110	High voltage ultrafast diode
D <sub>6</sub>	STPS2H100	Schottky Barrier Rectifier
D <sub>7</sub>	STPS1150	Schottky Barrier Rectifier
D <sub>8</sub>	BZX85C24	24V Zener Diode
D <sub>9</sub>	STTH110	High voltage ultrafast diode
TRANSISTOR		
Q <sub>1</sub>	BD140	PNP transistor
IC		
U <sub>1</sub>	LK112M33TR	Linear Voltage Regulator
U <sub>2</sub>	VIPer53	Off Line Primary Switch
U <sub>4</sub>	TL1431	Voltage reference
U <sub>5</sub>	PC817B	Optocoupler
TRANSFORMER		
T <sub>1</sub>	2362.0033A	Transformer - Pulse