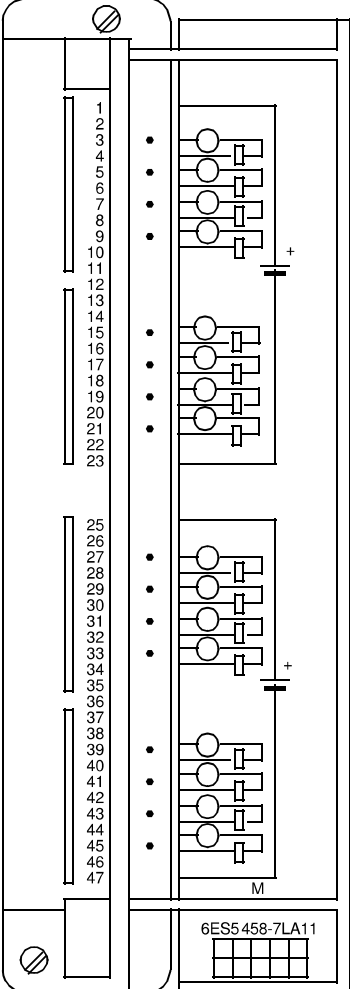
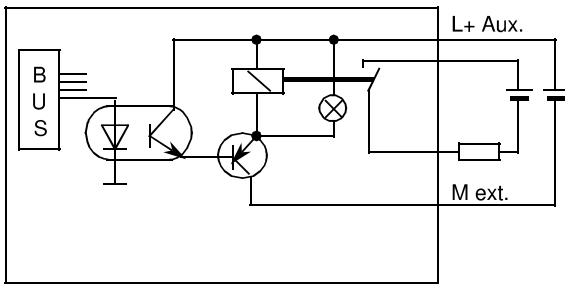


Relay Output Module for Measuring Currents 16 x 24 V DC

(6ES5 458-7LA11)

 Terminal Assignment  Simplified Schematic	Technical Specifications <table> <tr> <td>Number of outputs</td><td>16</td></tr> <tr> <td>- contact bridge</td><td>no</td></tr> <tr> <td>- galvanic isolation</td><td>yes</td></tr> <tr> <td>- in groups of</td><td>1</td></tr> <tr> <td>- relay type</td><td>3700-2501-011 (Günther)</td></tr> <tr> <td>Limiting continuous current per contact</td><td>0.5 A</td></tr> <tr> <td>Parallel connection of outputs</td><td>possible</td></tr> <tr> <td>Permissible total current of outputs</td><td>100%</td></tr> <tr> <td>Switching frequency</td><td></td></tr> <tr> <td>- resistive load</td><td>max. 60 Hz</td></tr> <tr> <td>- inductive load</td><td>not permissible</td></tr> <tr> <td>Switching voltage</td><td>max. 30 V DC</td></tr> <tr> <td>Switching capacity of the contacts</td><td></td></tr> <tr> <td>- resistive load</td><td>10 W at 0.5 A;</td></tr> <tr> <td>- inductive load</td><td>not permissible</td></tr> <tr> <td>Number of contact operating cycles according to VDE 0660, Part 200</td><td></td></tr> <tr> <td>- DC 11</td><td>1 x 10⁹</td></tr> <tr> <td>Supply voltage L+ (for relay)</td><td></td></tr> <tr> <td>- rated value</td><td>24 V DC</td></tr> <tr> <td>- permissible range</td><td>20 to 30 V</td></tr> <tr> <td>- surge voltage at t<0.5 sec.</td><td>35 V</td></tr> <tr> <td>- ripple</td><td>max. 3.6 V</td></tr> <tr> <td>Cable length</td><td></td></tr> <tr> <td>- shielded</td><td>1000 m (3281 ft.)</td></tr> <tr> <td>- unshielded</td><td>300 m (984 ft.)</td></tr> <tr> <td>Isolation rating</td><td>according to VDE 0160</td></tr> <tr> <td>Rated isolation voltage (between contacts)</td><td>30 V DC</td></tr> <tr> <td>- isolation group</td><td>C</td></tr> <tr> <td>- tested at</td><td>500 V AC</td></tr> <tr> <td>Rated isolation voltage (contacts to L+)</td><td>30 V DC</td></tr> <tr> <td>- isolation group</td><td>C</td></tr> <tr> <td>- tested at</td><td>500 V AC</td></tr> <tr> <td>Rated isolation voltage (contacts to $\perp$)</td><td>30 V DC</td></tr> <tr> <td>- isolation group</td><td>C</td></tr> <tr> <td>- tested at</td><td>500 V AC</td></tr> <tr> <td>Current consumption</td><td></td></tr> <tr> <td>- from 5 V (internal)</td><td>max. 50 mA</td></tr> <tr> <td>- from L+ (for relay)</td><td>240 mA</td></tr> <tr> <td>Power losses of the module</td><td>typ. 5 W</td></tr> <tr> <td>Weight</td><td>approx. 0.8 kg (1.76 lb.)</td></tr> </table>	Number of outputs	16	- contact bridge	no	- galvanic isolation	yes	- in groups of	1	- relay type	3700-2501-011 (Günther)	Limiting continuous current per contact	0.5 A	Parallel connection of outputs	possible	Permissible total current of outputs	100%	Switching frequency		- resistive load	max. 60 Hz	- inductive load	not permissible	Switching voltage	max. 30 V DC	Switching capacity of the contacts		- resistive load	10 W at 0.5 A;	- inductive load	not permissible	Number of contact operating cycles according to VDE 0660, Part 200		- DC 11	1 x 10 ⁹	Supply voltage L+ (for relay)		- rated value	24 V DC	- permissible range	20 to 30 V	- surge voltage at t<0.5 sec.	35 V	- ripple	max. 3.6 V	Cable length		- shielded	1000 m (3281 ft.)	- unshielded	300 m (984 ft.)	Isolation rating	according to VDE 0160	Rated isolation voltage (between contacts)	30 V DC	- isolation group	C	- tested at	500 V AC	Rated isolation voltage (contacts to L+)	30 V DC	- isolation group	C	- tested at	500 V AC	Rated isolation voltage (contacts to $\perp$)	30 V DC	- isolation group	C	- tested at	500 V AC	Current consumption		- from 5 V (internal)	max. 50 mA	- from L+ (for relay)	240 mA	Power losses of the module	typ. 5 W	Weight	approx. 0.8 kg (1.76 lb.)
Number of outputs	16																																																																																
- contact bridge	no																																																																																
- galvanic isolation	yes																																																																																
- in groups of	1																																																																																
- relay type	3700-2501-011 (Günther)																																																																																
Limiting continuous current per contact	0.5 A																																																																																
Parallel connection of outputs	possible																																																																																
Permissible total current of outputs	100%																																																																																
Switching frequency																																																																																	
- resistive load	max. 60 Hz																																																																																
- inductive load	not permissible																																																																																
Switching voltage	max. 30 V DC																																																																																
Switching capacity of the contacts																																																																																	
- resistive load	10 W at 0.5 A;																																																																																
- inductive load	not permissible																																																																																
Number of contact operating cycles according to VDE 0660, Part 200																																																																																	
- DC 11	1 x 10 ⁹																																																																																
Supply voltage L+ (for relay)																																																																																	
- rated value	24 V DC																																																																																
- permissible range	20 to 30 V																																																																																
- surge voltage at t<0.5 sec.	35 V																																																																																
- ripple	max. 3.6 V																																																																																
Cable length																																																																																	
- shielded	1000 m (3281 ft.)																																																																																
- unshielded	300 m (984 ft.)																																																																																
Isolation rating	according to VDE 0160																																																																																
Rated isolation voltage (between contacts)	30 V DC																																																																																
- isolation group	C																																																																																
- tested at	500 V AC																																																																																
Rated isolation voltage (contacts to L+)	30 V DC																																																																																
- isolation group	C																																																																																
- tested at	500 V AC																																																																																
Rated isolation voltage (contacts to $\perp$)	30 V DC																																																																																
- isolation group	C																																																																																
- tested at	500 V AC																																																																																
Current consumption																																																																																	
- from 5 V (internal)	max. 50 mA																																																																																
- from L+ (for relay)	240 mA																																																																																
Power losses of the module	typ. 5 W																																																																																
Weight	approx. 0.8 kg (1.76 lb.)																																																																																