



SIMATIC DP,  
POWER MODULE PM-E F PROFISAFE,  
FOR ET 200S;  
24V DC USEABLE FOR INSTALLATIONS WITH  
GROUNDED REFERENCE POTENTIAL RELAIS FOR FAIL-  
SAFE SWITCHING OF VOLTAGE BUS P2 UP TO  
CATEGORY 3 (EN954-1)/ SIL2 (IEC61508)/PLD  
(ISO13849),  
ALSO USEABLE IN PROFINET- NETWORKS WITH IM151-  
3 HF

<b>Supply voltage</b>	
<b>Load voltage L+</b>	
<b>Rated value (DC)</b>	24 V
<b>Reverse polarity protection</b>	No
<b>Input current</b>	
<b>from load voltage L+ (without load), max.</b>	typ. 100 mA
<b>from backplane bus 24 V DC, max.</b>	28 mA
<b>Current carrying capacity</b>	
<b>Current carrying capacity up to 30 °C, max.</b>	10 A
<b>Current carrying capacity up to 40 °C, max.</b>	8 A
<b>Current carrying capacity up to 60 °C, max.</b>	7 A
<b>Power losses</b>	
<b>Power loss, typ.</b>	4 W
<b>Address area</b>	
<b>Address space per module</b>	
<b>without packing</b>	5 byte ; Input and output in each case
<b>Digital inputs</b>	
<b>Cable length</b>	

<b>Cable length, shielded, max.</b>	200 m
<b>Cable length unshielded, max.</b>	200 m
<b>Digital outputs</b>	
<b>Number of digital outputs</b>	1
<b>Product function / at the digital outputs / short-circuit protection</b>	No
<b>Controlling a digital input</b>	Yes
<b>Switching capacity of the outputs</b>	
<b>Lamp load, max.</b>	100 W
<b>Switching frequency</b>	
<b>with resistive load, max.</b>	2 Hz
<b>with inductive load, max.</b>	0.1 Hz ; with inductive load to IEC 947-5-1, 13 DC /15 AC
<b>on lamp load, max.</b>	2 Hz
<b>Aggregate current of outputs (per group)</b>	
<b>horizontal installation</b>	
<b>up to 40 °C, max.</b>	10 A
<b>up to 55 °C, max.</b>	8 A
<b>up to 60 °C, max.</b>	7 A
<b>vertical installation</b>	
<b>up to 40 °C, max.</b>	8 A
<b>Relay outputs</b>	
<b>Switching capacity of contacts</b>	
<b>at ohmic load, up to 50 °C, max.</b>	10 A
<b>Interrupts/diagnostics/status information</b>	
<b>Diagnostic messages</b>	
<b>Diagnostic functions</b>	Yes
<b>Diagnostic information readable</b>	Yes
<b>Wire break</b>	No
<b>Short circuit</b>	Yes
<b>Missing load voltage</b>	Yes
<b>Diagnostics indication LED</b>	
<b>Rated load voltage PWR (green)</b>	Yes
<b>Group error SF (red)</b>	Yes
<b>Status indicator digital output (green)</b>	Yes
<b>Galvanic isolation</b>	
<b>Galvanic isolation digital outputs</b>	
<b>between the channels</b>	No
<b>between the channels and the backplane bus</b>	Yes

<b>between the channels and the load voltage L+</b>	No
<b>Isolation</b>	
<b>Isolation checked with</b>	500 V DC
<b>tested with</b>	
<b>Channels against backplane bus and load voltage L+</b>	500 V DC
<b>Standards, approvals, certificates</b>	
<b>Highest safety class achievable in safety mode</b>	
<b>acc. to EN 954</b>	4
<b>acc. to IEC 61508</b>	With Std-DO: Max. SIL 2, without Std-DO max. SIL 3 depending on configuration
<b>Dimensions</b>	
<b>Width</b>	30 mm
<b>Height</b>	81 mm
<b>Depth</b>	52 mm
<b>Weights</b>	
<b>Weight, approx.</b>	80 g
Status	Aug 24, 2013