## **SIEMENS**

## Data sheet

6ES7157-0AC85-0XA0

Field Device Coupler FDC 157 physical interface for PROFIBUS PA or Foundation Fieldbus H1 integrated bus supply up to 1000 mA with redundancy capability integrated diagnostics Degree of protection IP20 for extended temperature range

General information	
Product type designation	Field Device Connection FDC157
Product description	Field Device Coupler for PROFIBUS PA and Foundation Fieldbus
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Overvoltage protection	Yes
Mains buffering	
Mains/voltage failure stored energy time	5 ms
Input current	
Current consumption, max.	2.3 A; at 24 V DC
Power loss	
Power loss, typ.	13.4 W
Interfaces	
PROFIBUS DP	
<ul><li>Transmission rate, max.</li></ul>	45.45 kbit/s
<ul> <li>Design of electrical connection of PROFIBUS</li> </ul>	9-pin sub D
interface	
PROFIBUS PA	
<ul><li>Transmission rate, max.</li></ul>	31.25 kbit/s
<ul> <li>Number of connectable PA field devices</li> </ul>	31
<ul> <li>Current output to PA field devices, max.</li> </ul>	1 A
Protocols	
PROFIBUS DP	Yes
PROFIBUS PA	Yes
Interrupts/diagnostics/status information	
Status indicator	Yes; Group error (red)
Alarms	Yes
Diagnostics function	Yes
Diagnostics indication LED	

<ul><li>Bus activity DP (yellow)</li></ul>	Yes	
<ul><li>Bus activity PA (yellow)</li></ul>	Yes	
Bus fault BF (red)	Yes	
• Group error SF (red)	Yes	
<ul> <li>Monitoring 24 V voltage supply ON (green)</li> </ul>	Yes	
Potential separation		
between backplane bus and all other circuit	Yes	
components		
between PROFIBUS DP and all other circuit	Yes	
components		
between PROFIBUS PA and all other circuit	Yes	
components		
between supply and all other circuits	Yes	
Isolation		
Isolation tested with	600 V DC	
Degree and class of protection		
Degree of protection acc. to EN 60529		
• IP20	Yes	
Ambient conditions		
Ambient temperature during operation		
• min.	-25 °C	
• max.	60 °C	
Ambient temperature during storage/transportation		
• min.	-40 °C	
• max.	70 °C	
Relative humidity		
Operation, max.	95 %	
Dimensions		
Width	80 mm	
Height	125 mm	
Depth	130 mm	
Weights		
Weight, approx.	550 g	
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