## **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 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		
<ul> <li>Mains/voltage failure stored energy time</li> </ul>	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	
Design of electrical connection	9-pin sub D	
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	
<ul> <li>Bus fault BF (red)</li> </ul>	Yes	
<ul> <li>Group error SF (red)</li> </ul>	Yes	
<ul> <li>Monitoring 24 V voltage supply ON (green)</li> </ul>	Yes	
Potential separation		
between backplane bus and all other circuit components	Yes	
between PROFIBUS DP and all other circuit components	Yes	
between PROFIBUS PA and all other circuit components	Yes	
between supply and all other circuits	Yes	
Isolation		
Isolation tested with	600 V DC	
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	
<ul> <li>Operation, max.</li> </ul>	95 %
Dimensions	
Width	80 mm
Height	125 mm
Depth	130 mm
Weights	
Weight, approx.	550 g

last modified: 12/18/2020 ☑