

SIPLUS ET 200SP RQ 4x120VDC/230 -40...70°C with conformal Coating Based on: 6ES7132-6HD00-0BB1 . relay module normally open, RQ 4x120VDC..230VAC/5A Standard suitable for BU type B0 or B1, Module diagnostics



General information	
Product type designation	230 RCE
Firmware version	
<ul style="list-style-type: none"> FW update possible 	Yes
usable BaseUnits	BU type B0, B1
Color code for module-specific color identification plate	CC00
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> PROFIBUS as of GSD version/GSD revision 	GSD Revision 5
<ul style="list-style-type: none"> PROFINET as of GSD version/GSD revision 	GSDML V2.3
Operating mode	
<ul style="list-style-type: none"> DQ 	Yes
<ul style="list-style-type: none"> DQ with energy-saving function 	No
<ul style="list-style-type: none"> PWM 	No
<ul style="list-style-type: none"> Oversampling 	No
<ul style="list-style-type: none"> MSO 	No

Supply voltage	
permissible range, lower limit (DC)	100 V
permissible range, upper limit (DC)	253 V
Reverse polarity protection	Yes
Input current	
Current consumption, max.	40 mA
Address area	
Address space per module	
<ul style="list-style-type: none"> Address space per module, max. 	1 byte; + 1 byte for QI information
<ul style="list-style-type: none"> Inputs 	1 byte; With QI
<ul style="list-style-type: none"> Outputs 	1 byte
Digital outputs	
Type of digital output	Relays
Number of digital outputs	4; Relays
Short-circuit protection	No; external fusing necessary
Switching frequency	
<ul style="list-style-type: none"> with resistive load, max. 	2 Hz
<ul style="list-style-type: none"> with inductive load, max. 	0.5 Hz
<ul style="list-style-type: none"> on lamp load, max. 	2 Hz
Total current of the outputs	
<ul style="list-style-type: none"> Current per channel, max. 	5 A
<ul style="list-style-type: none"> Current per module, max. 	20 A
Total current of the outputs (per module)	
horizontal installation	
— up to 60 °C, max.	20 A
vertical installation	
— up to 60 °C, max.	20 A
Relay outputs	
<ul style="list-style-type: none"> Number of relay outputs 	4
<ul style="list-style-type: none"> Rated supply voltage of relay coil L+ (DC) 	24 V
<ul style="list-style-type: none"> Current consumption of relays (coil current of all relays), max. 	40 mA
<ul style="list-style-type: none"> external protection for relay outputs 	Yes, with 6A
<ul style="list-style-type: none"> Number of operating cycles, max. 	7 000 000; see additional description in the manual
Switching capacity of contacts	
— with inductive load, max.	3 A
— with resistive load, max.	10 A
— Thermal continuous current, max.	5 A; Max. 1 385 VA, 150 W
— Switching current, min.	100 mA; 5 V DC
— Rated switching voltage (DC)	24 V DC to 120 V DC
— Rated switching voltage (AC)	24V AC to 230V AC

Cable length	
• shielded, max.	1 000 m
• unshielded, max.	200 m
Isochronous mode	
Isochronous operation (application synchronized up to terminal)	No
Interrupts/diagnostics/status information	
Diagnostics function	Yes
Substitute values connectable	Yes
Alarms	
• Diagnostic alarm	Yes
Diagnostic messages	
• Monitoring the supply voltage	Yes
• Wire-break	No
• Short-circuit	No
• Group error	Yes
Diagnostics indication LED	
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED
• Channel status display	Yes; Green LED
• for channel diagnostics	No
• for module diagnostics	Yes; green/red DIAG LED
Potential separation	
Potential separation channels	
• between the channels	Yes
• between the channels and backplane bus	Yes
• between the channels and the power supply of the electronics	Yes
Permissible potential difference	
between channels and backplane bus/supply voltage	240 V AC
Isolation	
Isolation tested with	2 500 V DC (type test)
tested with	
• between channels and backplane bus/supply voltage	2500 V DC
• between backplane bus and supply voltage	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
• horizontal installation, min.	-40 °C; = Tmin
• horizontal installation, max.	70 °C; = Tmax; see Derating BasedOn (e.g. manual), additionally Tmax > 60 °C max. continuous current of 3 A per relay

Altitude during operation relating to sea level	
<ul style="list-style-type: none"> • Installation altitude above sea level, max. • Ambient air temperature-barometric pressure-altitude 	3 000 m Tmin ... Tmax at 1 140 hPa ... 795 hPa (-1 000 m ... +2 000 m) // Tmin ... Tmax -5K) at 795 hPa ... 701 hPa (+2 000 m ... +3 000 m)
Relative humidity	
<ul style="list-style-type: none"> • With condensation, tested in accordance with IEC 60068-2-38, max. 	100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation
Resistance	
Coolants and lubricants	
— Resistant to commercially available coolants and lubricants	Yes; Incl. diesel and oil droplets in the air
Use in stationary industrial systems	
— to biologically active substances according to EN 60721-3-3	Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request
— to chemically active substances according to EN 60721-3-3	Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust, *
Use on ships/at sea	
— to biologically active substances according to EN 60721-3-6	Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request
— to chemically active substances according to EN 60721-3-6	Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); *
— to mechanically active substances according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust; *
from supply voltage 1L+	
— Note regarding classification of environmental conditions acc. to EN 60721	* The supplied plug covers must remain in place over the unused interfaces during operation!
Dimensions	
Width	71.5 mm
Height	90 mm
Depth	60 mm
Weights	
Weight, approx.	40 g
last modified:	05/18/2018