SIEMENS

Data sheet

6ES7288-2DR08-0AA0

Central Information SM DR08. DD 8x relay Supply voltage		SIMATIC S7-200 SMART, Digital output SM DR08, 8 DO, relay 2 A
Supply voltage 24 V Rad value (CC) 20.4 V permissible range, iower limit (CC) 20.4 V permissible range, iower limit (CC) 20.4 V permissible range, iower limit (CC) 20.4 V Current consumption, typ. 80 mA: Current for 24 VDC input power from backplace bus 5V DC, typ. 90 mA: For 5 VDC from CPU module Digital inputs 0 Orgital outputs 8 Number of digital outputs 8 Short-circuit protection No Output desize with resistive load 0 Output desize with resistive load 8 - "1' to 't', max. 10 ms - "1' to 't', max. 10 ms - "1' to 't', max. 10 ms - Reter supply voltage of relay col L + (0C) 24 V - Reter supply voltage of relay col L + (0C) 24 N - with inductive load, max 2 A - with resistive load, max. 2 A - with r	General information	
Reter value (DC) 24 V permissible range, upper limit (DC) 28.8 V Input current 28.8 V Current consumption, typ. 90 mA; Current for 24 V DC input power from backplane bus 5 V DC, typ. 90 mA; For 5 V DC from CPU module Digital inputs 0 Number of digital inputs 8 Short-inruit protection No Output clearly write restative load • • "0" to "1", max. 10 ms • "1" to "1", max. 10 ms • Rated supply voltage of relay coll + (PC) 24 V - Reverse polarity protection Yes • Current consumption of relay coll + (PC) 24 V - Reverse polarity protection Yes • Current consumption of relay coll + (PC) 24 V - Reverse polarity protection Yes • Current consumption of relay coll + (PC) 24 V - with resistive load, max. 2A - with resistive load, up to 50 °C, max. 2A - with resistive load, up to 50 °C, max. 2A - with resistive load, up to 50 °C, max. 2A • for status of the out	Product type designation	SM DR08, DQ 8x relay
permissible range, lower limit (DC) 20.4 V permissible range, lower limit (DC) 28.8 V Current consumption, typ. 80 mA; Current for 24 V DC input power from backlane bas & VDC, typ. 90 mA; For 5 V DC from CPU module Digital inputs 0 Orgital inputs 0 Number of digital outputs 8 Schort-incur protection No Output delay with resistive load 10 ms • "1'to '0'; max. 10 ms • "0'to '0'; max. 10 ms • Number of riday outputs 8 • Relay outputs 8 • Number of riday outputs 8 • Relay outputs 8 • Relay outputs 8 • Relay outputs 8 • Relay outputs 8 • Current consumption of relay coil L + (DC) 24 V - Relay outputs 9 • With inductive load, max. 2 A - Own in map load, max. 2 A - with resistive load, up to 50 °C, max. 2 A - Thermal continuous ourrent, max. 2 A Ca	Supply voltage	
permissible range, upper limit (DC) 28.8 V Input current Current consumption. typ. 80 mA; Current for: 24 V DC input power from backplane bus 5 V DC, typ. 90 mA; For 5 V DC from CPU module Digital inputs 0 Number of digital inputs 0 Output outputs 8 Short-circul protection No Output outputs 8 • "To to "1; max. 10 ms • "To to "1; max. 10 ms • "To to "1; max. 10 ms • Relay outputs 8 • Current consumption of relays coll L+ (DC) 24 V - Reverse polarly protection Yes • Output food, max. 2 A - on lamp load, max. 2 A - on lamp load, max. 2 A - on lamp load, max. 2 A - with resistive load, max. 100 m - sheleled, max. 100 m	Rated value (DC)	24 V
Imput current B0 mA: Current for 24 V DC input power Current consumption, typ. 90 mA; For 5 V DC from CPU module Orginal inputs 0 Number of digital outputs 8 Number of digital outputs 8 Short-circuit protection No Outputs 10 ms • '0' to '1', max. 10 ms • '0' to '1', max. 10 ms • '1' to '0', max. 10 ms • '1' to '0', max. 10 ms • '1' to '0', max. 10 ms • Number of relay colututs 8 • Rated supply voltage of relay colutures 8 • Rated supply voltage of relay colutures of all relays), max. 80 mA switching capacity of contacts - • with inductive load, max. 2 A - with resistive load, max. 2 A - thermal continuous current, max. 2 A Cablelength -	permissible range, lower limit (DC)	20.4 V
Current consumption, typ. 80 mA; Current for 24 V DC input power from backplane but S VDC, typ. 90 mA; For 5 V DC from CPU module Digital inputs 0 Digital inputs 0 Digital inputs 8 Short-circuit protection No Output dely with resistive load 6 • '0' to '1', max. 10 ms • '1' to 'C', max. 10 ms • Relay couplids 8 • Number of relay outputs 8 • Relay couplids 8 • Number of relay outputs 8 • Relay couplids 8 • Number of relay outputs 8 • Relay couplids 8 • Number of relay outputs 8 • Relay coupling trolection Yes • Current consumption of relays (coll current of all relays), max. 80 mA - on lamp load, max. 2 A - on lamp load, max. 2 A - with relasitive load, max. 2 A - with relasitive load, max. 2 A Cable leight 600 m • or status of the outputs <td>permissible range, upper limit (DC)</td> <td>28.8 V</td>	permissible range, upper limit (DC)	28.8 V
from backplane bus 5 V DC, typ. 90 mA; For 5 V DC from CPU module Digital inputs 0 Number of digital inputs 8 Number of digital outputs 8 Output delay with resistive load 0 • 0° the 1°, max. 10 ms • 1° the 0°, max. 10 ms • 1° the 0°, max. 10 ms • Number of relay outputs 8 • Number of relay outputs 8 • Number of relay outputs 8 • Relay outputs 8 • Number of relay outputs 8 • Number of relay outputs 8 • Current consumption of relays (coll current of all relays), max. 2A - undam load, max. 2A - undam load, max. 2A - with resistive load, max. 2A - with resistive load, max. 2A • Thermal continuous current, max. 2A Cable length 150 m •	Input current	
Digital inputs 0 Number of digital inputs 0 Number of digital outputs 8 Short-dircuit protection No Output diely with ressitive load - • "1' fo "1', max. 10 ms • "1' fo "0', max. 10 ms • "1' fo "0', max. 10 ms • "1' fo "0', max. 10 ms • Number of relay outputs 8 • Relat outputs 8 • Current consemption of relays (col current of all relays), max. 30 W; 30 W with DC, 200 W with AC • outputs 2 A 2 - with resistive load, max. 2 A - Thermal continuous current, max. 2 A Cable lengith 50	Current consumption, typ.	80 mA; Current for 24 V DC input power
Number of digital inputs 0 Digital outputs 6 Short-circuit protection No Output delay with resistive load • • '0' to '1', max. 10 ms • '1' to '0', max. 10 ms • Number of relay outputs 8 • Current consumption of relays (coil current of all relays), max. 80 mA Switching capacity of contacts	from backplane bus 5 V DC, typ.	90 mA; For 5 V DC from CPU module
Digital outputs 6 Number of digital outputs 6 Short-Group typetetion No Output delay with resistive load 10 ms • 0° to °t*, max. 10 ms • 1° to °t*, max. 10 ms • Relay outputs 8 • Rade supply voltage of relay coll ± (DC) 24 V - Reverse polarity protection Yes • Current consumption of relays (coli current of all relays), max. 80 mA - max 2 A - on lamp load, max. 2 A - on lamp load, max. 2 A - with resistive load, up to 50 °C, max. 2 A - with resistive load, max. 2 A - Thermal continuous current, max. 2 A Cable length 500 m • ishielded, max. 150 m Interruptid/diagnostic/status information 150 m Diagnostic/status information 150 m Interruptid/diagnostic/status information 150 m	Digital inputs	
Number of digital outputs 8 Short-circuit protection No Output diday with resistive load	Number of digital inputs	0
Short-circuit protection No Output delay with resistive load 0 •• °° to '1', max. 10 ms •• °° to '1', max. 10 ms •• Number of relay outputs 8 •• Number of relay outputs 8 •• Number of relay outputs 8 •• Number of relay coll L+ (DC) 24 V Reverse polarity protection Yes •• Urmer to consumption of relays (coll current of all relays). 80 mA ·· outin inductive load, max. 2 A on lamp load, max. 2 A on lamp load, max. 2 A on lamp load, max. 2 A with resistive load, up to 50 °C, max. 2 A Cable length • • hielded, max. 500 m • unshielded, max. 10 m Interrupts/diagnostics/status information 150 m Dignostics indication LED • • between the channels Yes; Relay, dry contact Isolation 1500 VAC for 1 minute Degree and class of protection IP20 Standards approvals, certificates Yes Officient and 45 mm Height 100 mm Depth 41 mm Weight, approx. 166.3 g	Digital outputs	
Output delay with resistive load 10 ms • 0* 1º 0* 1*, max. 10 ms • 1* 1º 0*0; max. 10 ms Relay outputs 8 • Number of relay outputs 8 • Rated supply voltage of relay coll L+ (DC) 24 V - Reverse polarity protection Yes • Output dottive load, max. 2 A - with inductive load, max. 2 A - on lamp load, max. 2 A - with resistive load, up to 50 °C, max. 2 A - with resistive load, up to 50 °C, max. 2 A - with resistive load, max. 2 A - Thermal continuous current, max. 2 A - Thermal continuous current, max. 150 m Interrupts/diagnostics/status information 150 m Potential separation digital outputs Yes Potential separation IP20 Standards, approvals, certificates	Number of digital outputs	8
• '0' to '1', max.10 mse H'1 to '0', max.10 msRelay outputs8• Number of relay outputs8• Rated supply voltage of relay coil L+ (DC)24 V- Reverse polarity protectionYes• Current consumption of relays (coil current of all relays), max.80 mASwitching capacity of contacts2 A- on lamp load, max.2 A- on lamp load, max.2 A- with resistive load, up to 50 °C, max.2 A- with resistive load, up to 50 °C, max.2 A- With resistive load, up to 50 °C, max.2 A- Thermal continuous current, max.2 ACable length1500 m• unshielded, max.1500 m• listload, max.1500 m• or status of the outputsYesPotential separationYesPotential separation digital outputsYes: Relay, dry contact> baloation tested with1 500 VAC for 1 minutePogree and class of protectionIP20Standards, approval, certificatesYes:CE markYesOrdectionIP20Standards, approval, certificatesWesCE markYesOrdectionEP20With45 mmHeight100 mmDepth81 mmWeight, approx.186.3 g	Short-circuit protection	No
• '''' to ''', max.10 msRelay outputs	Output delay with resistive load	
Relay outputs8• Number of relay outputs8• Rated supply voltage of relay coll L+ (DC)24 V- Reverse polarity protectionYes• Current consumption of relays (coll current of all relays), max.80 mASwitching capacity of contacts2 A- with inductive load, max.2 A- on lamp load, max.30 With DC, 200 W with AC- with resistive load, up to 50 °C, max.2 A- with resistive load, up to 50 °C, max.2 A- Thermal continuous current, max.2 ACable length1500 m• unshielded, max.500 m• shielded, max.500 m• shielded, max.1500 m• unshielded, max.1500 m• loft status of the outputsYesPotential separationYesPotential separation digital outputsYes: Relay, dry contactIsolation1500 V AC for 1 minutePogree and class of protectionIP20Standards, approvals, certificatesYesVidth45 mmHeight100 mmDepth41 mmWidth45 mmHeight100 mmDepth41 mm	• "0" to "1", max.	10 ms
• Number of relay outputs 8 • Rated supply voltage of relay coil L+ (DC) 24 V - Reverse polarity protection Yes • Current consumption of relays (coil current of all relays), max. 80 mA Switching capacity of contacts 2 A - with inductive load, max. 2 A - on lamp load, max. 30 W; 30 W with DC, 200 W with AC - with resistive load, up to 50 °C, max. 2 A - with resistive load, max. 2 A - Thermal continuous current, max. 2 A • shielded, max. 500 m • shielded, max. 500 m • shielded, max. 150 m Interrupts/diagnostic/status information Diagnostics indication LED • for status of the outputs Yes Potential separation Isolation teled with 1 500 V AC for 1 minute Degree and class of protection IP20 Standards, approvals, certificates Yes C C mark Yes Otimensions Yes Width 45 mm Height 100 mm Depth 81 mm Weight, approx. 166.3 g	• "1" to "0", max.	10 ms
• Rated supply voltage of relay coil L+ (DC)24 V- Reverse polarity protectionYes• Current consumption of relays (coil current of all relays), max.80 mASwitching capacity of contacts with inductive load, max.2 A- on lamp load, max.30 W; 30 W with DC, 200 W with AC- with resistive load, max.2 A- Thermal continuous current, max.2 A- Thermal continuous current, max.2 A- Stielded, max.500 m• unshielded, max.150 mInterrupts/diagnostics/status informationImage: Status informationDiagnostics indication LED • for status of the outputsYesPotential separation digital outputsImage: Status informationPotential separation digital outputsImage: Status informationIsolation testYes: Relay, dry contactIsolationImage: Status informationPotential separation digital outputsImage: Status informationIsolation testYes: Relay, dry contactIsolation testYesOrgene and class of protectionIP20Standards, approvals, certificatesYesOrmensionsImage: Status informationWith45	Relay outputs	
- Reverse polarity protection Yes • Current consumption of relays (coil current of all relays), max. 80 mA Switching capacity of contacts 80 mA - with inductive load, max. 2 A - on lamp load, max. 30 W; 30 W with DC, 200 W with AC - with resistive load, max. 2 A - Thermal continuous current, max. 2 A - Thermal continuous current, max. 2 A - Shielded, max. 150 m • unshielded, max. 150 m • unshielded, max. 150 m • briggresstics indication LED • • of status of the outputs Yes Potential separation • Isolation • Isolation • Isolation • Isolation tested with 1 500 V AC for 1 minute Degree and class of protection IP20 Standards, approvals, certificates • CE mark Yes Dimensions • Width 45 mm Height 100 mm Depth 81 mm Weight, approx. 186.3 g	 Number of relay outputs 	8
• Current consumption of relays (coil current of all relays), max. 80 mA Switching capacity of contacts 2 A - with inductive load, max. 2 A - on lamp load, max. 30 W; 30 W with AC - with resistive load, max. 2 A - Thermal continuous current, max. 2 A Cable length 500 m • unshielded, max. 150 m Interrupts/diagnostics/status information 150 m Diagnostics indication LED • • for status of the outputs Yes Potential separation 1 Isolation 1 Isolation 1 Isolation 1 Isolation 1 IP degree of protection IP20 Standards, approvals, certificates Yes Dimensions Yes Width 45 mm Height 100 mm Depth 81 mm Weight, approx. 166.3 g	 Rated supply voltage of relay coil L+ (DC) 	24 V
max. Switching capacity of contacts	 Reverse polarity protection 	Yes
		80 mA
- on lamp load, max.30 W; 30 W with DC, 200 W with AC- with resistive load, up to 50 °C, max.2 A- with resistive load, max.2 A- Thermal continuous current, max.2 ACable length500 m• unshielded, max.500 m• unshielded, max.150 mInterrupts/diagnostics/status informationFor any context in formationDiagnostics indication LEDYes• for status of the outputsYesPotential separationYes: Relay, dry contactIsolation tested with1 500 V AC for 1 minuteDegree and class of protectionIP20Standards, approvals, cortificatesYesOmensionsYesWidth45 mmHeight100 mmDepth81 mmWeight, approx.166.3 g	Switching capacity of contacts	
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- with resistive load, max.2 A- Thermal continuous current, max.2 ACable length2 ACable length500 m• shielded, max.500 m• unshielded, max.150 mInterrupts/diagnostics/status information150 mDiagnostics indication LEDYes• for status of the outputsYesPotential separationYesPotential separation digital outputsYes; Relay, dry contactIsolation tested with1 500 V AC for 1 minuteDegree and class of protectionIP 20Standards, approvals, certificatesYesCE markYesDimensionsVesWidth45 mmHeight100 mmDepth81 mmWeight approx.166.3 g	— on lamp load, max.	30 W; 30 W with DC, 200 W with AC
Thermal continuous current, max. 2 A Cable length 500 m • shielded, max. 500 m • unshielded, max. 150 m Interrupts/diagnostics/status information Interrupts/diagnostics/status information Diagnostics indication LED ves • for status of the outputs Yes Potential separation Yes Potential separation digital outputs Yes; Relay, dry contact Isolation Yes; Relay, dry contact Isolation 1 500 V AC for 1 minute Dagree and class of protection IP20 Standards, approvals, certificates Yes CE mark Yes Dimensions Yes Width 45 mm Height 100 mm Depth 81 mm Weights Weight, approx.	— with resistive load, up to 50 °C, max.	2 A
Cable length • shielded, max. 500 m • unshielded, max. 150 m Interrupts/diagnostics/status information Diagnostics indication LED • for status of the outputs Yes Potential separation Potential separation digital outputs Yes; Relay, dry contact • between the channels Yes; Relay, dry contact Isolation Isolation Isolation 1 500 V AC for 1 minute Degree and class of protection IP20 Standards, approvals, certificates Yes CE mark Yes Dimensions 100 mm Weight 45 mm Height 100 mm Depth 81 mm	- with resistive load, max.	2 A
• shielded, max.500 m• unshielded, max.150 mInterrupts/diagnostics/status informationDiagnostics indication LED• for status of the outputsYesPotential separationPotential separation digital outputs• between the channelsYes; Relay, dry contactIsolationIsolationIsolation tested with1 500 V AC for 1 minuteDegree and class of protectionIP20Standards, approvals, certificatesCE markYesDimensionsWidth45 mmHeight100 mmDepth81 mmWeightsWeight, approx.166.3 g	— Thermal continuous current, max.	2 A
• unshielded, max.150 mInterrupts/diagnostics/status informationDiagnostics indication LED• for status of the outputsYesPotential separationPotential separation digital outputs• between the channelsYes; Relay, dry contactIsolationIsolationIsolation tested with1 500 V AC for 1 minuteDegree and class of protectionIP 20Standards, approvals, certificatesCE markCE markYesDimensions100 mmWeight100 mmDepth81 mmWeight, approx.166.3 g	Cable length	
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• for status of the outputs Yes Potential separation Potential separation digital outputs • between the channels Yes; Relay, dry contact Isolation Isolation tested with Isolation tested with 1 500 V AC for 1 minute Degree and class of protection IP20 Standards, approvals, certificates Yes CE mark Yes Dimensions 45 mm Height 100 mm Depth 81 mm Weights 166.3 g	Interrupts/diagnostics/status information	
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• between the channels Yes; Relay, dry contact Isolation Isolation tested with Isolation tested with 1 500 V AC for 1 minute Degree and class of protection IP20 Standards, approvals, certificates CE mark Vidth 45 mm Height 100 mm Depth 81 mm Weights 166.3 g	Potential separation	
Isolation Isolation tested with 1 500 V AC for 1 minute Degree and class of protection IP20 IP degree of protection IP20 Standards, approvals, certificates CE mark CE mark Yes Dimensions 45 mm Height 100 mm Depth 81 mm Weights Yeight, approx.	Potential separation digital outputs	
Isolation tested with1 500 V AC for 1 minuteDegree and class of protectionIP20IP degree of protectionIP20Standards, approvals, certificatesYesCE markYesDimensionsYesWidth45 mmHeight100 mmDepth81 mmWeightsYeight, approx.Weight, approx.166.3 g	between the channels	Yes; Relay, dry contact
Degree and class of protection IP degree of protection IP20 Standards, approvals, certificates CE mark Yes Dimensions Width 45 mm Height 100 mm Depth 81 mm Weights Veights Weight, approx. 166.3 g	Isolation	
IP degree of protection IP20 Standards, approvals, certificates CE mark Yes Dimensions Width 45 mm Height 100 mm Depth 81 mm Weights Weight, approx. 166.3 g	Isolation tested with	1 500 V AC for 1 minute
Standards, approvals, certificates CE mark Yes Dimensions 45 mm Width 45 mm Height 100 mm Depth 81 mm Weights 166.3 g	Degree and class of protection	
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Dimensions Width 45 mm Height 100 mm Depth 81 mm Weights Weight, approx. 166.3 g	Standards, approvals, certificates	
Width 45 mm Height 100 mm Depth 81 mm Weights Veight 3 g	CE mark	Yes
Height 100 mm Depth 81 mm Weights 166.3 g	Dimensions	
Height 100 mm Depth 81 mm Weights 166.3 g		45 mm
Depth 81 mm Weights 166.3 g		100 mm
Weights Weight, approx. 166.3 g	•	81 mm
Weight, approx. 166.3 g	· ·	
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