SIEMENS

Data sheet 5TT4205-3



switching relay with 1 NO and 1 NC contact, contact for 230V AC 16A control 12V AC $\,$

Figure similar

product designation Switching relays design of the product with 1 NC and 1 NO design of the product yith 1 NC and 1 NO design of the writching function 1 NO + 1 NC Central tochnical data operating range factor of control voltage_1 0.8 electrical endurance (operating cycles) 50 000 galvanic isolation between magnet coil and contact Yes switching current at AC per contact minimum 10 V switching current at AC per contact minimum 100 mA power loss [V-A] of magnet coil with pulse rated value 3 VA Voltage Vyotage of the operating voltage AC control voltage at AC rated value maximum 12 V surge voltage resistance rated value 4 kV Supply voltage of a Crated value maximum 400 V emaximum 400 V emaximum 400 V emaximum 400 V type of voltage of the supply voltage AC Protection class IP Reaking Capacity active power with incandescent lamp load switching capacity active power with incandescent lamp load Dissipation power loss [W] of rated value of the current at AC in hot operating state per pole e at 18 A per contact rated value 2.4 W Main circuit operating frequency rated value 50 Hz Main circuit operating frequency rated value 50 Hz Sentration of the supply state value 50 Hz Source Water Charles Value Water Charles Sentration of NO With connected conductors With connected conductors With connected conductors Water Charles Wate		
product designation Switching relays design of the product with 1 NC and 1 NO design of the switching function 1 NO + 1 NC General technical data operating range factor of control voltage_1 0.8 electrical endurance (operating cycles) 50 000 galvanic isolation between magnet coil and contact Yes switching voltage of the contacts at AC minimum 10 V switching current at AC per contact minimum 100 mA power loss [V-1] of magnet coil with pulse rated value 3 VA Voltage Voltage Voltage Vype of voltage of the operating voltage AC control voltage at AC rated value maximum 12 V surge voltage resistance rated value 4 kV Supply voltage operating voltage • minimum	Model	
design of the product design of the switching function 1 NO+1 NC General technical data operating range factor of control voltage_1 electrical endurance (operating cycles) galvanic isolation between magnet coil and contact switching voltage of the contacts at AC minimum 10 V switching current at AC per contact minimum 10 0 mA power loss [V-A] of magnet coil with pulse rated value 3 VA Voltage Type of voltage of the operating voltage AC control voltage at AC rated value maximum 12 V surge voltage resistance rated value 9 with minimum 10 V Supply voltage operating voltage e minimum 400 V at AC rated value maximum 400 V at AC rated value maximum 400 V type of voltage of the supply voltage Protection class protection class IP Freaking Capacity switching capacity apparent power for uncompensated fluorescent lamp load switching capacity active power with incandescent lamp load switching capacity active power with incandescent lamp load switching capacity active power with incandescent lamp load 1 V of or rated value of the current at AC in hot operating state per pole at 16 A per contact rated value 2.4 W Main cricuit Operating frequency rated value 50 Hz	product brand name	SENTRON
design of the switching function 1 NO + 1 NC General technical data operating range factor of control voltage_1 0.8 electrical endurance (operating cycles) 50 000 galvanic isolation between magnet coil and contact Yes switching voltage of the contacts at AC minimum 10 V switching voltage of the contacts at AC minimum 100 mA power loss [V-A] of magnet coil with pulse rated value 3 VA Voltage type of voltage of the operating voltage AC control voltage at AC rated value maximum 12 V surge voltage resistance rated value 4 kV Supply voltage • minimum 400 V • naximum 400 V • rated value maximum 400 V type of voltage of the supply voltage AC Protection class protection class IP Broaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity current at Cos phil 0.6 16 A switching capacity current at Cos phil 0.6 16 A	product designation	Switching relays
Ceneral technical data operating range factor of control voltage_1 0.8 electrical endurance (operating cycles) 50 000 galvanic isolation between magnet coil and contact Yes switching voltage of the contacts at AC minimum 10 V switching current at AC per contact minimum 100 mA power loss [V-A] of magnet coil with pulse rated value Voltage type of voltage of the operating voltage AC control voltage at AC rated value maximum 12 V surge voltage resistance rated value 4 kV Supply voltage operating voltage iminimum 400 V in at AC rated value maximum 400 V in a the control class in accordance of the supply voltage AC Protection class IP IP20, with connected conductors Breaking Capacity apparent power for uncompensated fluorescent lamp load 400 VA switching capacity active power with incandescent lamp load 1200 W Olssipation power loss [W] for rated value of the current at AC in hot operating state per pole at 16 A per contact rated value 1 W of magnet coil with pulse rated value 50 Hz	design of the product	with 1 NC and 1 NO
operating range factor of control voltage_1	design of the switching function	1 NO + 1 NC
electrical endurance (operating cycles) galvanic isolation between magnet coil and contact yes switching vottage of the contacts at AC minimum 10 V switching current at AC per contact minimum 100 mA power loss [V-A] of magnet coil with pulse rated value Voltage type of voltage of the operating voltage control voltage at AC rated value maximum 12 V surge voltage resistance rated value Supply voltage operating voltage • minimum • at AC rated value maximum 400 V • at AC rated value maximum 400 V type of voltage of the supply voltage Protection class protection class IP Breaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value 1 W Main circuit operating frequency rated value 50 Hz	General technical data	
galvanic isolation between magnet coil and contact switching voltage of the contacts at AC minimum switching current at AC per contact minimum 10 0 mA power loss [V-A] of magnet coil with pulse rated value Voltage type of voltage of the operating voltage control voltage at AC rated value maximum 12 V surge voltage resistance rated value 4 kV Supply voltage operating voltage • minimum • maximum • at AC rated value maximum 400 V type of voltage of the supply voltage AC rotection class IP Freaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value 50 Hz	operating range factor of control voltage_1	0.8
switching voltage of the contacts at AC minimum switching current at AC per contact minimum power loss [V-A] of magnet coil with pulse rated value type of voltage of the operating voltage type of voltage at AC rated value maximum 12 V surge voltage resistance rated value **Supply voltage** operating voltage • minimum • at AC rated value maximum 400 V • maximum • at AC rated value maximum 400 V type of voltage of the supply voltage AC Protection class IP Breaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value 50 Hz **Main circuit** operating frequency rated value 50 Hz	electrical endurance (operating cycles)	50 000
switching current at AC per contact minimum power loss [V-A] of magnet coil with pulse rated value Voltage type of voltage of the operating voltage control voltage at AC rated value maximum surge voltage resistance rated value 4 kV Supply voltage operating voltage • minimum • at AC rated value maximum **Ov V **Totoction class **Protection class **Protection class IP Breaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity active power with incandescent lamp load switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value 1 W 400 V Main circuit operating frequency rated value 50 Hz	galvanic isolation between magnet coil and contact	Yes
power loss [V-A] of magnet coil with pulse rated value Voltage type of voltage of the operating voltage control voltage at AC rated value maximum 12 V surge voltage resistance rated value 4 kV Supply voltage operating voltage ominimum 400 V maximum 400 V type of voltage of the supply voltage AC Protection class protection class IP Breaking Capacity switching capacity apparent power of runcompensated fluorescent lamp load switching capacity active power with incandescent lamp load Dissipation power loss [W] of or ganget coil with pulse rated value 2.4 W Main circuit operating frequency rated value 50 Hz	switching voltage of the contacts at AC minimum	10 V
Voltage type of voltage of the operating voltage	switching current at AC per contact minimum	100 mA
type of voltage of the operating voltage control voltage at AC rated value maximum 12 V surge voltage resistance rated value 4 kV Supply voltage operating voltage • minimum • maximum 400 V • maximum 400 V type of voltage of the supply voltage AC Protection class protection class IP Breaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value 50 Hz AC Main circuit operating frequency rated value 50 Hz	power loss [V·A] of magnet coil with pulse rated value	3 VA
control voltage at AC rated value maximum surge voltage resistance rated value 4 kV Supply voltage operating voltage • minimum • maximum • at AC rated value maximum 400 V type of voltage of the supply voltage Protection class protection class IP Breaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value 2.4 W Main circuit operating frequency rated value 50 Hz	Voltage	
surge voltage resistance rated value 4 kV Supply voltage operating voltage ominimum 400 V omaximum 400 V type of voltage of the supply voltage AC Protection class IP IP20, with connected conductors Breaking Capacity switching capacity apparent power of or uncompensated fluorescent lamp load 400 VA switching capacity current at cos phi 0.6 16 A switching capacity active power with incandescent lamp load 1 200 W Dissipation power loss [W] of or rated value of the current at AC in hot operating state per pole at 16 A per contact rated value 1 W of magnet coil with pulse rated value 2.4 W Main circuit operating frequency rated value 50 Hz	type of voltage of the operating voltage	AC
Supply voltage operating voltage ininimum omaximum o	control voltage at AC rated value maximum	12 V
operating voltage	surge voltage resistance rated value	4 kV
minimum maximum and AC rated value maximum 400 V type of voltage of the supply voltage AC Protection class protection class IP IP20, with connected conductors Breaking Capacity switching capacity apparent power for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole at 16 A per contact rated value of magnet coil with pulse rated value and T W Main circuit operating frequency rated value 50 Hz	Supply voltage	
maximum at AC rated value maximum 400 V type of voltage of the supply voltage AC Protection class protection class IP Breaking Capacity switching capacity apparent power of or uncompensated fluorescent lamp load switching capacity active power with incandescent lamp load switching capacity active power with incandescent lamp load Dissipation power loss [W] of or rated value of the current at AC in hot operating state per pole at 16 A per contact rated value of magnet coil with pulse rated value operating frequency rated value 50 Hz	operating voltage	
* at AC rated value maximum type of voltage of the supply voltage Protection class protection class IP Breaking Capacity switching capacity apparent power * for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] ** for rated value of the current at AC in hot operating state per pole * at 16 A per contact rated value * of magnet coil with pulse rated value ** of magnet coil with pulse rated value ** operating frequency rated value ** 50 Hz ** ON W ** AC ** Protection class ** IP20, with connected conductors ** AC ** Protection class ** IP20, with connected conductors ** AC ** Protection class ** IP20, with connected conductors ** AC ** Protection class ** IP20, with connected conductors ** AC ** Protection class ** IP20, with connected conductors ** AC ** Protection class ** IP20, with connected conductors ** AC ** Protection class ** IP20, with connected conductors ** AC ** Protection class ** IP20, with connected conductors ** AC ** Protection class ** IP20, with connected conductors ** AC ** Protection class ** IP20, with connected conductors ** AC ** AU *	• minimum	400 V
type of voltage of the supply voltage Protection class protection class IP IP20, with connected conductors Breaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value Dissipation 1 W • of magnet coil with pulse rated value 50 Hz	• maximum	400 V
Protection class IP Breaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value operating frequency rated value 50 Hz	at AC rated value maximum	400 V
protection class IP Breaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value Disaipation 1 W 2.4 W Main circuit operating frequency rated value 50 Hz	type of voltage of the supply voltage	AC
Breaking Capacity switching capacity apparent power • for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value 2.4 W Main circuit operating frequency rated value 50 Hz	Protection class	
switching capacity apparent power • for uncompensated fluorescent lamp load 400 VA switching capacity current at cos phi 0.6 16 A switching capacity active power with incandescent lamp load 1 200 W Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value 1 W • of magnet coil with pulse rated value 2.4 W Main circuit operating frequency rated value 50 Hz	protection class IP	IP20, with connected conductors
for uncompensated fluorescent lamp load switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] for rated value of the current at AC in hot operating state per pole at 16 A per contact rated value of magnet coil with pulse rated value Main circuit operating frequency rated value 400 VA 16 A 1 W 1 W 1 W 2.4 W	Breaking Capacity	
switching capacity current at cos phi 0.6 switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value Main circuit operating frequency rated value 50 Hz	switching capacity apparent power	
switching capacity active power with incandescent lamp load Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value Main circuit operating frequency rated value 50 Hz	for uncompensated fluorescent lamp load	400 VA
Dissipation power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value Main circuit operating frequency rated value 50 Hz	switching capacity current at cos phi 0.6	16 A
power loss [W] • for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value Main circuit operating frequency rated value 50 Hz		1 200 W
• for rated value of the current at AC in hot operating state per pole • at 16 A per contact rated value • of magnet coil with pulse rated value Main circuit operating frequency rated value 50 Hz	Dissipation	
per pole	power loss [W]	
● of magnet coil with pulse rated value 2.4 W Main circuit operating frequency rated value 50 Hz		1 W
Main circuit operating frequency rated value 50 Hz	 at 16 A per contact rated value 	1 W
operating frequency rated value 50 Hz	 of magnet coil with pulse rated value 	2.4 W
· · · · · ·	Main circuit	
operational current	operating frequency rated value	50 Hz
	operational current	

rated value	16 A
at cos phi 0.6 1 rated value	16 A
Control current	10 A
type of voltage	40
of control voltage_1	AC
control voltage	40.1/
• _1 initial value	12 V
• _1 full-scale value	12 V
control voltage frequency	FOLI-
• _1 initial value	50 Hz
• _1 full-scale value	50 Hz
operating range factor of control voltage_2	1.1
number of NC contacts	1
number of NO contacts	1
number of CO contacts	0
Product function	
product function direct operation	Yes
Inputs Outputs	
relay design	partially electronic
Number	
number of terminals with cross-head screw	1
Connections	
connectable conductor cross-section for flexible conductor with core end processing	
• minimum	1 mm²
maximum	
→ maximum	6 mm²
connectable conductor cross-section for rigid conductor	6 mm ²
	6 mm ² 1 mm ²
connectable conductor cross-section for rigid conductor	
connectable conductor cross-section for rigid conductor • minimum	1 mm²
connectable conductor cross-section for rigid conductor • minimum • maximum	1 mm²
connectable conductor cross-section for rigid conductor	1 mm ² 6 mm ²
connectable conductor cross-section for rigid conductor	1 mm² 6 mm² 90 mm
connectable conductor cross-section for rigid conductor • minimum • maximum Mechanical Design height width	1 mm² 6 mm² 90 mm 18 mm
connectable conductor cross-section for rigid conductor	1 mm² 6 mm² 90 mm 18 mm 1.2 mm
connectable conductor cross-section for rigid conductor	1 mm² 6 mm² 90 mm 18 mm 1.2 mm 76 mm
connectable conductor cross-section for rigid conductor	1 mm² 6 mm² 90 mm 18 mm 1.2 mm 76 mm
connectable conductor cross-section for rigid conductor • minimum • maximum Mechanical Design height width width of opening of the contacts depth installation depth number of modular width units	1 mm² 6 mm² 90 mm 18 mm 1.2 mm 76 mm 70 mm
connectable conductor cross-section for rigid conductor	1 mm² 6 mm² 90 mm 18 mm 1.2 mm 76 mm 70 mm 1
connectable conductor cross-section for rigid conductor	1 mm² 6 mm² 90 mm 18 mm 1.2 mm 76 mm 70 mm 1 DIN rail any
connectable conductor cross-section for rigid conductor	1 mm² 6 mm² 90 mm 18 mm 1.2 mm 76 mm 70 mm 1 DIN rail any
connectable conductor cross-section for rigid conductor • minimum • maximum Mechanical Design height width width of opening of the contacts depth installation depth number of modular width units fastening method mounting position required spacing for live parts Environmental conditions	1 mm² 6 mm² 90 mm 18 mm 1.2 mm 76 mm 70 mm 1 DIN rail any
connectable conductor cross-section for rigid conductor • minimum • maximum Mechanical Design height width width of opening of the contacts depth installation depth number of modular width units fastening method mounting position required spacing for live parts Environmental conditions ambient temperature during operation	1 mm² 6 mm² 90 mm 18 mm 1.2 mm 76 mm 70 mm 1 DIN rail any 6 mm



General Product Approval









Miscellaneous

Test Certificates

other Environment



Confirmation

Environmental Confirmations

Environmental Confirmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5TT4205-3

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/5TT4205-3

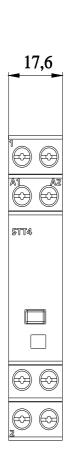
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5TT4205-3

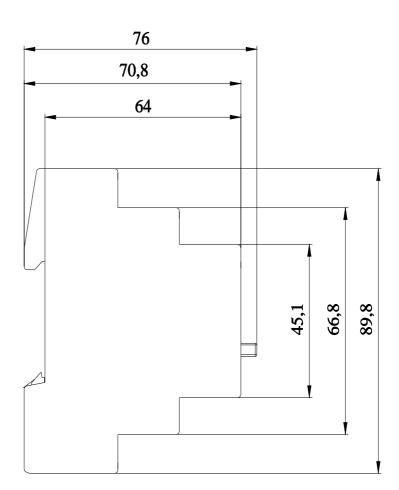
CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications





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