SIEMENS

Product data sheet 5SY7310-7



CIRCUIT BREAKER 400V 15KA, 3-POLE, C, 10A, D=70MM

Similar to image

Technical data:				
product brand name		SENTRON		
Product designation		5SY miniature circuit breaker		
Mounting type		Quick assembly system		
Type of voltage		AC/DC		
Height	mm	90		
Width	mm	54		
Depth	mm	76		
Net weight	g	434		
mounting position		any		
Mounting depth	mm	70		
Current / for AC / rated value	Α	10		
Tripping characteristic class		С		
Supply voltage				
• for AC / rated value	V	400		
Supply voltage / for DC / rated value				
• with multi-phase operation / with AC / rated value	V	400		
Number of poles /note		3P		
Switching capacity current				

* with DC / in accordance with IEC 60947-2 / rated value * with DC / in accordance with IEC 60947-2 / rated value * acc. to EN 60898 / rated value * with DC / in accordance with IEC 60947-2 / rated value * with DC / in accordance with EN 60898-2 * with AC / in accordance with EN 60898-2 * with AC / in accordance with EN 60898-2 * with AC / in accordance with UI 1077 and CSA C22.2 No.235 * Active power loss / at rated value current / with AC / in warm operating state / per pole * Number of width units * Product extension / can be installed / supplementary device * Product feature / sealable * Product feature / sealable * Product part of width units * Product property properties for main switches in accordance with EN 6004-1 * Ambient temperature * during storage * Product property / properties for main switches in accordance with EN 6004-1 * Mchanical operating cycles as operating time / typical * Resistance against vibration / according to IEC 60068-2-6 * Overvoltage class * Product quipment / touch-protection * Resistance against shock / according to IEC 60068-2-7 * with multi-phase operation / with AC / rated value * W			
# acc. to EN 60888 / rated value Peaking capacity short-circuit current (Icn)	• in accordance with IEC 60947-2 / rated value	kA	30
Breaking capacity short-circuit current (lon) with DC / in accordance with EN 60898-2 with AC / in accordance with EN 60898-2 with AC / in accordance with UL 1077 and CSA C22.2 No.235 Active power loss / at rated value current / with AC / in warm operating state / per pole Number of width units Product extension / can be installed / supplementary device Product feature / sealable Product frequency for pole Ambient temperature - during storage - during storage - v°C	• with DC / in accordance with IEC 60947-2 / rated value	kA	15
* with DC / in accordance with EN 60898-2 * with AC / in accordance with UL 1077 and CSA C22.2 No.235 * Active power loss / at rated value current / with AC / in warm operating startly / per pole Number of width units * Product extension / can be installed / supplementary device Product feature / sealable Degree of pollution Influence of the surrounding temperature Ambient temperature - during storage Position / of power supply cord Product property / properties for main switches in accordance with EN 6020-41 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-67 Insulation voltage - with multi-phase operation / with AC / rated value AWG number - as encoded connectable conductor cross-section Finely stranded - with wire end processing Product component - combined terminal bottom Tightening torque with screw-type terminals Tightening torque (Ibf-In) **Ves **AR 15 **W 1.5 **Sa 3 **Ves **Ves **AB 3 **Sa 3 **Pod. 40 +75 **Any **Pos. +55 **Pos. +56 **Po	• acc. to EN 60898 / rated value	kA	15
* with AC / in accordance with UL 1077 and CSA C22.2 No.235 Active power loss / at rated value current / with AC / in warm operating state / per pole Number of width units Product extension / can be installed / supplementary device Product feature / sealable Degree of pollution Influence of the surrounding temperature Ambient temperature - during storage Product properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-7 Insulation voltage * with multi-phase operation / with AC / rated value AWG number - as a encoded connectable conductor cross-section AWG number - solid - multibrin - inely stranded - with wire end processing Product component - combined terminal bottom Tightening torque - with screw-type terminals Tightening torque (lbf-in) **Wes **Inel State (vertical of the conductor (vertical of the component) - combined terminal bottom Tightening torque (lbf-in) **Wes **Inel state (vertical of the conductor (vertical of the component) - combined terminal bottom Tightening torque (lbf-in)	Breaking capacity short-circuit current (Icn)		
Active power loss / at rated value current / with AC / in warm operating state / per pole Number of width units Product extension / can be installed / supplementary device Product feature / sealable Degree of pollution Influence of the surrounding temperature Ambient temperature - during storage - during storage - during storage Product property / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / fouch-protection Resistance against shock / according to IEC 60068-2-7 Insulation voltage - with multi-phase operation / with AC / rated value AWG number - as encoded connectable conductor cross-section Section de conducteur raccordable - solid - multibrin - innely stranded - with wire end processing Product omponent - combined terminal bottom Tightening torque - with screw-type terminals Tightening torque (Ibf-in) We s 1	• with DC / in accordance with EN 60898-2	kA	15
operating state / per pole 3 Number of width units 3 Product extension / can be installed / supplementary device Yes Product feature / sealable Yes Degree of pollution 3 Influence of the surrounding temperature "C" -25 +65 Ambient temperature -during storage "C" -40 +75 Position / of power supply cord Any Any Product property / properties for main switches in accordance with EN 60204-1 Yes Mechanical operating cycles as operating time / typical 20,000 Resistance against vibration / according to IEC 60068-2-6 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) Overvoltage class 3 Product equipment / fouch-protection Yes Resistance against shock / according to IEC 60068-2-27 150m/s² at 11ms half-sine Insulation voltage """" • with multi-phase operation / with AC / rated value V 440 AWG number 14 4 *""" • solid mm² 0.75 35 • multi-phase operating tyricy stranded """" 0.75 25	• with AC / in accordance with UL 1077 and CSA C22.2 No.235	kA	5
Product extension / can be installed / supplementary device Product feature / sealable Degree of poliution Influence of the surrounding temperature Ambient temperature - during storage - during storage - very comperty / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-8 Overvoltage class Product quipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage - vith multi-phase operation / with AC / rated value V	·	W	1.5
Product feature / sealable Degree of poliution Influence of the surrounding temperature Ambient temperature Ambient temperature - during storage Product property / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product quipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage • with multi-phase operation / with AC / rated value AWG number - as encoded connectable conductor cross-section Section de conducteur raccordable • solid • inulibrin • inelly stranded • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (lbf-in)	Number of width units		3
Degree of pollution Influence of the surrounding temperature Ambient temperature - during storage Position / of power supply cord Product property / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-7 Insulation voltage - with multi-phase operation / with AC / rated value AWG number - as encoded connectable conductor cross-section Section de conducteur raccordable - with wire end processing Product component - combined terminal top - combined terminal bottom Tightening torque - with screw-type terminals Tightening torque (lbf-in)	Product extension / can be installed / supplementary device		Yes
Influence of the surrounding temperature Ambient temperature - during storage Product property / properties for main switches in accordance with Eth 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage - with multi-phase operation / with AC / rated value AWG number - as encoded connectable conductor cross-section Section de conducteur raccordable - with wire end processing Product component - combined terminal top - combined terminal bottom Tightening torque - with screw-type terminals Tightening torque (lbf-in) Many Amy - 40 +75 Any Yes - 40 +75 Any Yes - 40 +75 Any - 40 +75 Any - 40 +75 - 40 +	Product feature / sealable		Yes
Ambient temperature Ambient temperature during storage C 40 +75 Position / of power supply cord Product property / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage with multi-phase operation / with AC / rated value AWG number as encoded connectable conductor cross-section Section de conducteur raccordable * solid * mm² 0.75 35 * multibrin * finely stranded * with wire end processing Product component combined terminal top * combined terminal top * combined terminal bottom Tightening torque * with screw-type terminals Tightening torque (lbf-in) ** Any Any 440 +75 Any * 440 +75 * Any * 450 +455 * Any * 440 +45 * 450 +455 * 450 +455 * 440 +45 * 440	Degree of pollution		3
Ambient temperature • during storage Position / of power supply cord Product property / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage • with multi-phase operation / with AC / rated value AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • mm² • 0.75 35 • multibrin • finely stranded • with wire end processing Product component • combined terminal top • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (Ibf-in)	Influence of the surrounding temperature		max. 95% humidity
* during storage Position / of power supply cord Product property / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage * with multi-phase operation / with AC / rated value AWG number * as encoded connectable conductor cross-section Section de conducteur raccordable * solid * multibrin * finely stranded * with wire end processing Product component * combined terminal top * combined terminal top * combined terminal topt * combined terminal bottom Tightening torque * with screw-type terminals N-m 2.5 3 Any Yes Toghtening torque * Wany 20,000 ** 20,000 * 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) * 20,000 * 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) * 440 * 440 * 440 * 440 * 440 * * 440 * * * * * * * * * * * * * * * * * * *	Ambient temperature	°C	-25 +55
Position / of power supply cord Product property / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage • with multi-phase operation / with AC / rated value AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • multibrin • multibrin • finely stranded • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque (Ibf-in) Any Yes Any Yes 2,0,000 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 449 440 440 440 441 442 443 444 444 444 444 444	Ambient temperature		
Product property / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-7 Insulation voltage • with multi-phase operation / with AC / rated value AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • multibrin • finely stranded • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (lbf-in) Yes 20,000 20	during storage	°C	-40 +7 5
with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage • with multi-phase operation / with AC / rated value AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • multibrin • finely stranded • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (lbf-in) Power of the Coop of	Position / of power supply cord		Any
Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage • with multi-phase operation / with AC / rated value AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • multibrin • mm² 0.75 35 Froduct component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (lbf-in) Solom/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 3 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 3 Yes 150m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 3 Telegram of the condom of the con			Yes
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Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage • with multi-phase operation / with AC / rated value AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • multibrin • mm² 0.75 35 mm² 0.75 35 refinely stranded • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals N-m 2.5 3 150m/s² at 11ms half-sine 150m/s² at 10m/s² at 1ms half-sine 150m/s² at 15m/s² at 1ms half-sine 150m/s² at 11ms half-sine 150m/s² at 11ms half-sine 150m/s² at 11ms half-sine 150m/s² at 15m/s² at 1ms half-sine 150m/s² at 15m/s² at 1ms half-sine 150m/s² at 1ms half-sine 150m/s² at 1ms hal	Resistance against vibration / according to IEC 60068-2-6		50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
Resistance against shock / according to IEC 60068-2-27 Insulation voltage • with multi-phase operation / with AC / rated value AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • mm² 0.75 35 • multibrin • finely stranded • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (Ibf-in)	Overvoltage class		3
Insulation voltage • with multi-phase operation / with AC / rated value AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • mm² 0.75 35 • multibrin • mm² 0.75 35 • finely stranded • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals N-m 2.5 3	Product equipment / touch-protection		Yes
 with multi-phase operation / with AC / rated value AWG number as encoded connectable conductor cross-section 14 4 Section de conducteur raccordable solid multibrin finely stranded with wire end processing mm² 0.75 35 Product component combined terminal top combined terminal bottom Tightening torque with screw-type terminals N·m 2.5 3 Tightening torque (Ibf-in) Tightening torque (Ibf-in)	Resistance against shock / according to IEC 60068-2-27		150m/s² at 11ms half-sine
AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • mm² 0.75 35 • multibrin • mith wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (lbf-in) 14 4 15 35 16 35 17 35 18 3	Insulation voltage		
*as encoded connectable conductor cross-section Section de conducteur raccordable *solid *mm²	• with multi-phase operation / with AC / rated value	V	440
Section de conducteur raccordable • solid • multibrin • finely stranded • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (Ibf-in) Tightening torque (Ibf-in)	AWG number		
 solid multibrin finely stranded with wire end processing mm² 0.75 35 Product component combined terminal top combined terminal bottom Tightening torque with screw-type terminals N·m 2.5 3 Tightening torque (lbf-in) mm² 0.75 35 Yes Xes 	as encoded connectable conductor cross-section		14 4
 multibrin finely stranded with wire end processing mm² 0.75 25 Product component combined terminal top combined terminal bottom Tightening torque with screw-type terminals N-m 2.5 3 Tightening torque (lbf-in)	Section de conducteur raccordable		
• finely stranded • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (lbf-in) with stranded mm² 0.75 25 Yes Yes Yes Test of the processing N·m 2.5 3	• solid	mm²	0.75 35
 with wire end processing mm² 0.75 25 Product component combined terminal top combined terminal bottom Tightening torque with screw-type terminals N·m 2.5 3 Tightening torque (lbf-in) 	• multibrin	mm²	0.75 35
Product component	• finely stranded		
• combined terminal top • combined terminal bottom Yes Tightening torque • with screw-type terminals N·m 2.5 3 Tightening torque (lbf-in)	with wire end processing	mm²	0.75 25
• combined terminal bottom Tightening torque • with screw-type terminals N·m 2.5 3 Tightening torque (lbf-in)	Product component		
Tightening torque • with screw-type terminals N·m 2.5 3 Tightening torque (lbf-in)	combined terminal top		Yes
• with screw-type terminals N·m 2.5 3 Tightening torque (lbf-in)	combined terminal bottom		Yes
Tightening torque (lbf·in)	Tightening torque		
	with screw-type terminals	N⋅m	2.5 3
• with screw connection lbf-in 22 26	Tightening torque (lbf-in)		
	with screw connection	lbf-in	22 26

Product feature	
• silicon-free	Yes
• halogen-free	Yes
Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30	6
Reference ID / according to DIN EN 61346-2	F

Certificates/approvals:

General Product Approval

Declaration of Conformity













Shipping Approval











other other





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

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

Industry Mall (Online ordering system)

https://eb.automation.siemens.com/mall/en/WW/Catalog/Product/5SY7310-7

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

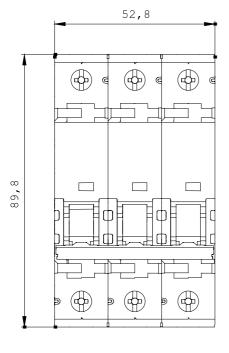
http://support.automation.siemens.com/WW/view/en/5SY7310-7/all

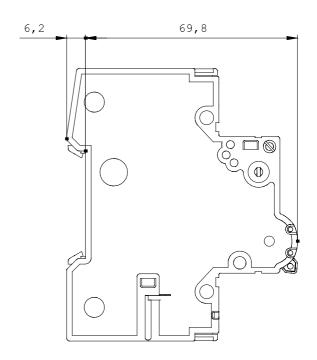
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

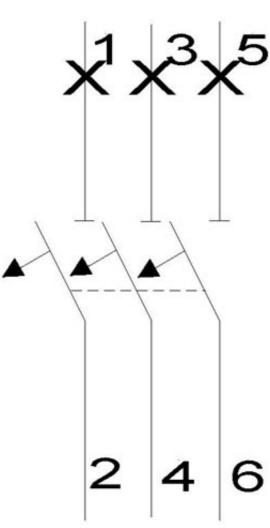
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7310-7

CAx-Online-Generator

http://www.siemens.com/cax







last change: Mar 24, 2014