SIEMENS

Product data sheet 5SY7510-7



CIRCUIT BREAKER 230V 15KA, 1+N-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	36		
Depth	mm	76		
Net weight	g	288		
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	230		
Supply voltage / for DC / rated value				
with single-phase operation / with AC / rated value	V	230		
Number of poles /note		1P+N		
Switching capacity current				

In accordance with IEC 60947-2 / rated value with IDC / in accordance with IEC 60947-2 / rated value acc. to EN 60989 / rated value with DC / in accordance with EN 60989-2 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 Degree of pollution Influence of the surrounding temperature Ambient temperature - during storage Product property / properties for main switches in accordance with EN 60004-1 Resistance against vibration / according to IEC 60068-2-6 Overvoltage class Product quipment / touch-protection Resistance against shock / according to IEC 60068-2-8 Overvoltage class Product quipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage with single-phase operation / with AC / rated value AWG number - as ancoded connectable conductor cross-section Section de conducteur raccordable - with wire end processing mm² 0.75 35 mm² 0.75 35 Tightening torque - with scow-type terminals Tightening torque (Ibf-in) - with scow-type terminals Tightening torque (Ibf-in) - with scow-type terminals Tightening torque (Ibf-in) - with scow-type terminals Description of the conductor conductor conductor of the conductor conduc			
# 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 (Ion) 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 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 Product property / properties for main switches in accordance with EN 60204-1 Product property / properties for main switches in accordance with EN 60204-1 Mechanical operating cycles as operating time / typical Resistance against wibration / according to IEC 60088-2-8 Overvoltage class Product quipment / touch-protection Resistance against shock / according to IEC 60088-2-7 Insulation voltage - with single-phase operation / with AC / rated value - with single-phase operation / with AC / rated value - with wire end processing Product component - innelly stranded - with wire end processing Product component - combined terminal top - combined terminal top - combined terminal top - combined terminal bottom Tightening torque - with screw-type terminals Tightening torque (IbFin)	• 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 starte/ 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 8020-41 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-67 Insulation voltage - with single-phase operation / with AC / rated value AWG number - as encoded connectable conductor cross-section Infinely stranded - with wire end processing Product component - combined terminal bottom Tightening torque (bi-lin) WA 1.5. W 1.5. W 2. W 2. W 2. Wes - Ves - 40 475 Any - 25 455 Any - 26 40 475 Any - 27 400 - 40 475 -	• 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 single-phase operation / with AC / rated value * solid * AWG number - as an coded connectable conductor cross-section AWG number - solid conducteur raccordable * solid * mm² 0.75 35 * mm	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 poperty / 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 single-phase operation / with AC / rated value - vith single-phase operation / with AC / rated value - section de conducteur raccordable - solid - multibrin - finely stranded - with wire end processing Product component - combined terminal bottom Tightening torque - with screw-type terminals Tightening torque (Ibf-in) Product equipment (Ibf-in) ### Uses Ves	• with DC / in accordance with EN 60898-2	kA	15
operating state / per pole 2 Number of width units 2 Product extension / can be installed / supplementary device Yes Product feature / sealable Yes Degree of pollution 3 Influence of the surrounding temperature "C" -25+55 Ambient temperature "C" -40+75 - during storage "C" -40+75 Position / of power supply cord 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 single-phase operation / with AC / rated value V AWG number 14 4 • solid mm² 0.75 35 • multibrin mm² 0.75 35 • multibrin mm² 0.75	• 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 component - very combined tempinal to 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 Overvoltage class Product quipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage - vith single-phase operation / with AC / rated value V 250 AWG number - as encoded connectable conductor cross-section Very law of the conducteur raccordable - vith wire end processing Product component - (Insulation to the protection or the combined terminal top - vombined terminal top - combined terminal top - combined terminal bottom Tightening torque - with screw-type terminals Tightening torque (Ibf-in) Product feature / Yes - 25 +55 max. 95% humidity - max. 95% humidity - max. 95% humidity - max. 95% humidity - Au. 40 +75 - Au +75 - Au +75 - Au +75 - Auy - ves - 40 +75 - Auy - ves - 20,000 - Son/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) - Son/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) - Yes - 150m/s² at 11ms half-sine - 150	·	W	1.5
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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 single-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) **C 40 +75 40 +75 Anny Anny Yes \$20,000	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 single-phase operation / with AC / rated value V 250 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 N-m 2.5 3 Tightening torque (Ibf-in)	Influence of the surrounding temperature		max. 95% humidity
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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 single-phase operation / with AC / rated value V 250 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 (Ibf-in) Resistance against shock / according to IEC 60068-2-27 150m/s² at 11ms half-sine 150m/s² at 11	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 single-phase operation / with AC / rated value • with single-phase operation / with AC / rated value • solid • mm² • 0.75 35 • multibrin • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (lbf-in)	during storage	°C	-40 +75
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Product equipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage • with single-phase operation / with AC / rated value AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • multibrin • mm² 0.75 35 • multibrin • 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 1ms half-sine 150m/s² at 11ms half-sine 150m/s² at 12ms half-si	Resistance against vibration / according to IEC 60068-2-6		50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
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with single-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 **Tightening torque (lbf-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 • mm² 0.75 35 • miltibrin • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals N·m 2.5 3	Insulation voltage		
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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 Yes Tightening torque with screw-type terminals N·m 2.5 3 Tightening torque (lbf-in) 	• multibrin	mm²	0.75 35
Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals N·m 2.53 Tightening torque (lbf-in)	• 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 code / according to DIN EN 61346-2	F

Certificates/approvals:

General Product Approval

Declaration of Conformity













Shipping Approval













other other

Further information:

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/5SY7510-7

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

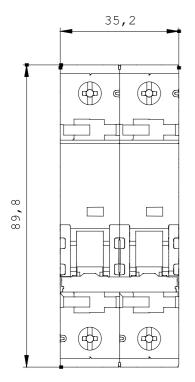
http://support.automation.siemens.com/WW/view/en/5SY7510-7/all

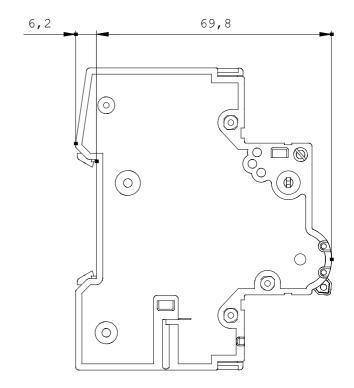
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7510-7

CAx-Online-Generator

http://www.siemens.com/cax





last change: Apr 7, 2014