SIEMENS

Product data sheet 5SY7402-7



CIRCUIT BREAKER 400V 15KA, 4-POLE, C, 2A, 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	72		
Depth	mm	76		
Net weight	g	640		
mounting position		any		
Mounting depth	mm	70		
Current / for AC / rated value	А	2		
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		4P		
Switching capacity current				

In accordance with IEC 60947-2 / rated value with DC / in accordance with IEC 60947-2 / rated value acc. to EN 80989 / rated value with DC / in accordance with IEC 60947-2 / rated value with DC / in accordance with IEC 80989-2 with AC / in accordance with IEC 80989-2 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 - "C" 40 +75 Position / of power supply cord Product property / properties for main switches in accordance with EN 80204-1 Mochanical operating cycles as operating time / typical Resistance against vibration / according to IEC 80088-2-6 Overvoltage class Product quipment / touch-protection Resistance against shock / according to IEC 80088-2-7 Insulation voltage - with multi-phase operation / with AC / rated value AWG number - as encoded connectable conductor cross-section Section de conducteur raccordable - with multi-phase operation / with AC / rated value AWG number - as encoded connectable conductor cross-section Section de conducteur raccordable - with wine end processing mm² 0.75 35 - multibrin - innely stranded - with wine end processing mm² 0.75 35 Tightening torque - with scow-type terminals N-m 2.5 3 Tightening torque (Ibf-in) - with scow-type terminals N-m 2.5 36			
# acc. to EN 60898 / rated value Breaking capacity short-circuit current (tcn) * with DC / in accordance with EN 60898-2 * with AC / in accordance with UL 1077 and CSA C222 No 235 * with AC / in accordance with UL 1077 and CSA C222 No 235 * with AC / in accordance with UL 1077 and CSA C222 No 235 * with AC / in accordance with UL 1077 and CSA C222 No 235 * kA 5 * 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 feature / sealable * Degree of pollution * Influence of the surrounding temperature * Ambient temperature * 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 60068-2-7 Insulation voltage * with multi-phase operation / with AC / rated value * with multi-phase operation / with AC / rated value * W 440 * AWG number * as encoded connectable conductor cross-section * Section de conducteur raccordable * solid * with write end processing * mm² 0.75 35 * remained terminal top * combined terminal top * combined terminal bottom * yes * Tightening torque * with screw-type terminals * N-m 2.5 3 * Tightening torque (tbf-in)	• in accordance with IEC 60947-2 / rated value	kA	50
Breaking capacity short-circuit current (icn) 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 Ambient temperature - during storage - "C" - 40 + 75 Anny Anny Product property / properties for main switches in accordance with EN 60204-1 Resistance against vibration / according to IEC 60068-2-6 Overvoitage class Product quipment / touch-protection Resistance against shock / according to IEC 60068-2-7 Insulation voitage - with multi-phase operation / with AC / rated value AWG number - as encoded connectable conductor cross-section Section de conducteur raccordable - soild - multibrin - innely stranded - with wite and processing Product component - combined terminal top - with screw-type terminals Tightening torque (Ibf-in)	• 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 kA 5 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 3 Influence of the surrounding temperature Ambient temperature - during storage - v°C 40 +75 Any Product property / properties for main switches in accordance with EN 6020-1 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 ancoded connectable conductor cross-section Insulation - inely stranded - with wire end processing Product component - combined terminal bottom Tightening torque - with screw-type terminals N-m 2,5 3 Tightening torque (Ibf-in)	• acc. to EN 60898 / rated value	kA	15
* with AC / in accordance with UL 1077 and CSA C22.2 No.235	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 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 / 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 • munitipin • innely stranded • with wire end processing Product emploaded terminal botto • combined terminal botto • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (Ibf-in) We a 1 d 4 4 4 5 4 5 5 0 7 5 35 4 1 4 4 2 5 0 7 5 35 4 1 4 5 0 7 5 35 4 1 4 5 0 7 5 35 4 1 4 5 0 7 5 35 4 1 4 5 0 7 5 35 4 1 4 5 0 7 5 35 4 1 4 5 0 7 5 35 4 1 4 5 0 7 5 35 4 1 4 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5 0 7 5 35 5	• with DC / in accordance with EN 60898-2	kA	15
Operating state / per pole 4 Number of width units 4 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 Ambient temperature Any • during storage "C -40+75 Postion / 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 / touch-protection Yes Resistance against shock / according to IEC 60068-2-27 150m/s² at 11ms half-sine Insulation voltage * 440 * with multi-phase operation / with AC/ rated value V 440 AWGs number * as ancoaded connectable conductor cross-section 14 4 * section de conducteur raccordable * mm² 0.75 35	• 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 politution Influence of the surrounding 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 - vestion with multi-phase operation / with AC / rated value - with multi-phase operation / with AC / rated value - viith multibrin - nuntibrin - finely stranded - with wire end processing - vestion de conducteur raccordable - solid - multibrin - finely stranded - with wire end processing - vestion de terminal top - combined terminal top - combined terminal top - combined terminal bottom Tightening torque - with screw-type terminals Tightening torque (lbf-in)	·	W	1
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 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 **With multi-phase operation / with AC / rated value **Section de conducteur raccordable **solid **Insulation voltage **Solid **Solid **Insulation voltage **Solid **Solid **Solid **Insulation voltage **Solid	Number of width units		4
Degree of pollution Influence of the surrounding temperature 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 - multibrin - inelty stranded - with wire end processing Product component - combined terminal top - combined terminal bottom Tightening torque - with screw-type terminals N·m 2.5 3 Insulation torque (lbf-in)	Product extension / can be installed / supplementary device		Yes
Influence of the surrounding temperature Ambient temperature - during storage "C -40 +75 Position / of power supply cord Product property / properties for main switches in accordance with EM 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 bottom Tightening torque • with screw-type terminals Tightening torque (lbf-in)	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 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 insulation 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)	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 V 440 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 N-m 2.5 3 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 bottom Tightening torque • with screw-type terminals N-m 2.5 3 Any Yes Ves 150m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 50m/s² at 35Hz (4sec) 440 440 440 440 440 441 440 440 441 441 441 442 442	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 V 440 AWG number • as encoded connectable conductor cross-section Section de conducteur raccordable • solid • 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 Itghtening torque (Ibf-in)	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 60068-2-27 Insulation voltage • with multi-phase operation / with AC / rated value V 440 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)	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) Pyes 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 50m/s² at 35Hz (4sec) 4440 4440 4440 4440 4440 445 446 447 447 448 448 449 449 440 440 440 440	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 • 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
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 • 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)	Mechanical operating cycles as operating time / typical		20,000
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 • multibrin • 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 150m/s² at 11ms half-sine 150m	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 N·m 2.5 3 150m/s² at 11ms half-sine 14 4	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 • 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 (lbf-in)	Product equipment / touch-protection		Yes
with multi-phase operation / with AC / rated value AWG number as encoded connectable conductor cross-section Section de conducteur raccordable solid 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 • multibrin • miltibrin • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (lbf-in) 14 4 14 4 14 4 14 4 14 4 14 4 14 4 14 4 14 4 14 4 14 4 14 4 14 4 15 35 16 35 17 35 18 36 19 36	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 N·m 2.5 3	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 Yes 	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) Product component • Yes Yes Yes Yes Tightening torque • with screw-type terminals 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 • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals N·m 2.5 3 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

other other









Shipping Approval







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/5SY7402-7

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

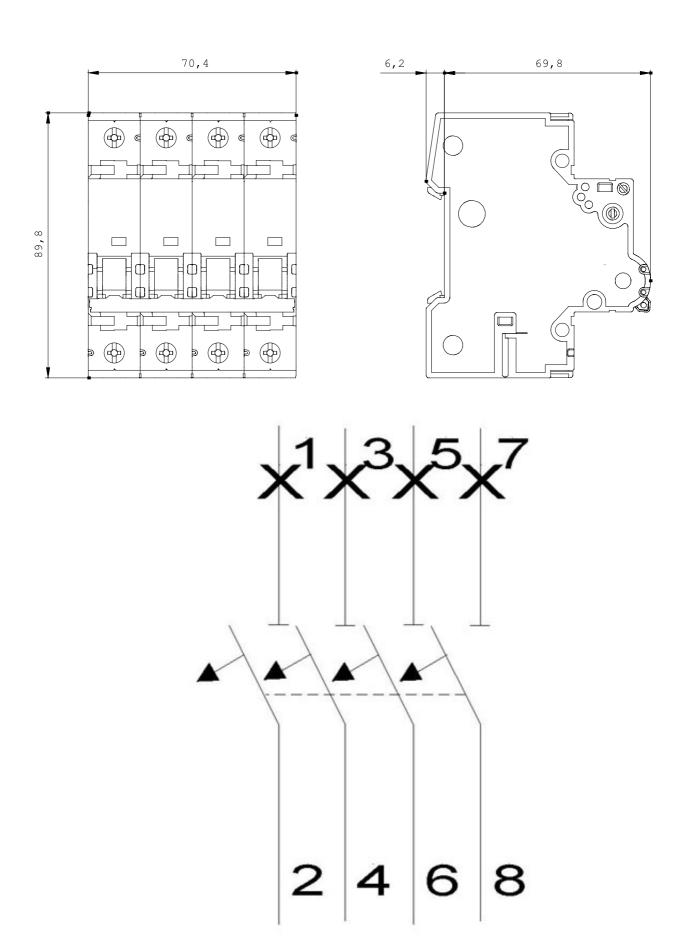
http://support.automation.siemens.com/WW/view/en/5SY7402-7/all

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7402-7

CAx-Online-Generator

http://www.siemens.com/cax



last change: Apr 7, 2014