SIEMENS

Product data sheet 5SY7204-7



CIRCUIT BREAKER 400V 15KA, 2-POLE, C, 4A, 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	312		
mounting position		any		
Mounting depth	mm	70		
Current / for AC / rated value	Α	4		
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		2P		
Switching capacity current				

In accordance with IEC 60947-2 / rated value with IDC / 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 Nomber of width units Product extension / can be installed / supplementary device Product feature / sealable pegree 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 Resistance against vibration / according to IEC 60088-2-6 Overvoltage class Product equipment / touch-protection Resistance against shock / according to IEC 60088-2-6 Overvoltage against vibration / with AC / rated value with multi-phase operation / with AC / rated value W 440 AWG number - as ancoded connectable conductor cross-acction Section de conducteur raccordable - with with end processing - multibrin - finely stranded - with with end processing Product component - combined terminal botton Tightening torque - with scow-type terminals Tightening torque (Ibf-in) - with scow-type terminals N-m 2, 5 3 Buf-in 2, 26			
Preaking capacity short-circuit current (icn) **with DC / in accordance with EN 608982 KA 15 *with AC / in accordance with EN 608982 KA 15 *with AC / in accordance with UL 1077 and CSA C22.2 No.235 KA 5 *with AC / in accordance with UL 1077 and CSA C22.2 No.235 KA 5 *with AC / in accordance with UL 1077 and CSA C22.2 No.235 KA 5 *with AC / in accordance with UL 1077 and CSA C22.2 No.235 KA 5 *with AC / in accordance with UL 1077 and CSA C22.2 No.235 KA 5 *with AC / in accordance with UL 1077 and CSA C22.2 No.235 KA 5 *with AC / in accordance with UL 1077 and CSA C22.2 No.235 KA 5 *with during state / per pole Yes *Product estatic / sealable Yes *Product estatic / sealable Yes *with with according to main switches in accordance with EN 60204-1 Yes *with with sealable Yes Yes *	• in accordance with IEC 60947-2 / rated value	kA	40
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 textension / can be installed / supplementary device Product feature / sealable Degree of pollution Influence of the surrounding 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 / 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 - innely stranded - with wire end processing Product component - combined terminal top - combined terminal to	• with DC / in accordance with IEC 60947-2 / rated value	kA	15
* with DC / in accordance with EN 60989-2 * 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 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 - sa encoded connectable conductor cross-section Finely stranded - with wire end processing Product component - combined terminal bottom Tightening torque - with scree-type terminals Tightening torque (bi-lin) **Ves **AC	• 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 quipment / 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 **AWG number* - solid conducteur raccordable - influence and processing - influence and processing - roduct component - influence and processing - roduct component - combined terminal bottom Tightening torque - with screw-type terminals - Tightening torque (lbf-in) **Wes - AVG number - combined terminal bottom - Tightening torque (lbf-in) **Wes - C	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 sextension / 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 60204-1 Mechanical operating cycles as operating time / typical Resistance against vibration / according to IEC 60068-2-67 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 60068-2-60 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 • innely stranded • with wire end processing Product component • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (IbFin) Juntation to fixed the surrounding termerature / very season of the surrounding t	• with DC / in accordance with EN 60898-2	kA	15
operating state / per pole Image 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 Yes 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 Yes Overvoltage class Yes Product equipment / touch-protection Yes Resistance against shock / according to IEC 60068-2-27 Yes Insulation voltage Yes * with multi-phase operation / with AC / rated value Yes * section de conducteur raccordable 14 4 * so encoded connectable conductor cross-section 14 4 * solid mm² 0.75 35 * multibrin mm² 0.75 35 * multibrin mm	• 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 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 aguipment / touch-protection Resistance against shock / according to IEC 60068-2-27 Insulation voltage • with multi-phase operation / with AC / rated value • solid • multi-phase operation / with AC / rated value • solid • multibusin • insulation de conducteur raccordable • with wire end processing • roduct component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (Ibf-in)	·	W	1.4
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 60068-2-27 Insulation voltage - with multi-phase operation / with AC / rated value - with multi-phase operation / with AC / rated value - soild - multibrin - soild - 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 - with screw-type terminals Tightening torque (lbf-in) Product feature / cacording to IEC 60068-2-6 - 25 +55 - axa, 95% humidity - axa, 95% humidity - Axo, -25 +55 - Any - Any - 40 +75 - Any -	Number of width units		2
Degree of pollution Influence of the surrounding temperature Ambient temperature - during storage Product property / properties for main switches in accordance with EN 68204-1 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 with end processing • with with end processing Product component • combined terminal bottom Tightening torque • with screw-type terminals Tightening torque (ibt-in) Amy Arry 4 40 4 40 5 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 5 0m/s² at 11ms half-sine 1 50m/s² at 11ms half-sine 4 44 4 40 4 40 4 40 4 40 4 40 4 40 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Product extension / can be installed / supplementary device		Yes
Influence of the surrounding temperature Ambient temperature - during storage **C -25+55 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 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 2.53	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 mm² 0.75 35 rimely 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 (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 • 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 40, +75 Any Yes 50,000 Any Yes 150m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 50m/s² at 35Hz (4sec) 40,000 440 440 440 440 440 440	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 20,000 * 20,000 * 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 20,000 * 440 * 440 * 440 * 440 * 440 * 440 * 440 * 440 * 440 * 440 * 440 * 440 * 440 * 440 * 440 * 45 * 46 * 40 * 47 * 440 * 47 * 48 * 48 * 40 * 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 • 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 Any Yes Ves 10,000 20,000 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 4480 440 440 440 440 441 44 4 45 35 46 35 47	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 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 N-m 2.5 3 Yes 150m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 3 44 4 440 440 440 440 441 44 4 54 4 55 35 56 35 76 25 76 25 76 25 76 25 76 25 76 35 76 25 76 35	during storage	°C	-40 +7 5
with EN 60204-1 20,000 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 with multi-phase operation / with AC / rated value AWG number as encoded connectable conductor cross-section 14 4 Section de conducteur raccordable 	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) Section 4 25 to 150Hz and 60m/s² at 35Hz (4sec) 3 3 Yes 150m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec) 3 44.4 440 440 440 440 441 442 442 44			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 • solid • multibrin • with wire end processing Product component • combined terminal top • combined terminal bottom Tightening torque • with screw-type terminals N-m 2 3 3 Yes 440 440 440 440 440 440 440 4	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 • 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 140 140 440 440 440 440 440 44	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 150m/s² at 11ms half-sine 14 4 40 440 440 440 Tyes 0.75 35 Tightening torque (Ibf-in)	Overvoltage class		3
Insulation voltage • with multi-phase operation / with AC / rated value W 440 AWG number • as encoded connectable conductor cross-section 14 4 Section de conducteur raccordable • solid • mm² 0.75 35 • multibrin • mm² 0.75 35 • 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)	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 *multibrin *multibrin *inely stranded *with wire end processing Product component *combined terminal top *combined terminal bottom Tightening torque *with screw-type terminals N·m 4440 4	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 • multibrin • 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	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 (lbf-in) Tightening torque (lbf-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	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 N·m 2.5 3 Tightening torque (lbf-in)	• 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	• finely stranded		
combined terminal top combined terminal bottom 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

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/5SY7204-7

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

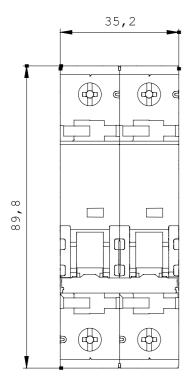
http://support.automation.siemens.com/WW/view/en/5SY7204-7/all

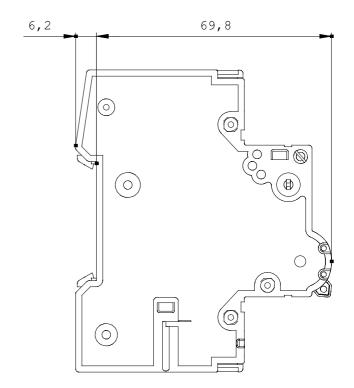
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY7204-7

CAx-Online-Generator

http://www.siemens.com/cax





last change: Mar 24, 2014