SIEMENS

Data sheet 5SY6318-7



Miniature circuit breaker 400 V 6kA, 3-pole, C, 15 A

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
General technical data	
number of poles	3
number of poles / note	3P
tripping characteristic class	С
mechanical service life (switching cycles) / typical	10 000
overvoltage category	III
degree of pollution	3
Voltage	
insulation voltage	
with single-phase operation / at AC / rated value	440 V
with multi-phase operation / at AC / rated value	440 V
Supply voltage	
type of voltage	AC
supply voltage	
at AC / rated value	400 V
operating voltage / at DC / rated value / maximum	72 V
supply voltage frequency / rated value	50/60 Hz
Protection class	
protection class IP	IP20, with connected conductors
Switching capacity	
switching capacity current	
at DC / acc. to IEC 60947-2 / rated value	15 kA
acc. to EN 60898 / rated value	6 kA
acc. to IEC 60947-2 / rated value	15 kA
energy limitation class	3
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.5 W
Current	
operational current	
 at 40 °C / rated value 	14.28 A
at 45 °C / rated value	13.9 A
• at 50 °C / rated value	13.53 A
• at 55 °C / rated value	13.12 A

at AC / rated value	15 A
suitability for operation	Mechanical engineering / industry
Product details	ÿ ÿ ,
product function / neutral conductor switching	No
product feature / touch protection	Yes
product component	
combined terminal top	Yes
combined terminal bottom	Yes
product feature	
 properties for main switches in accordance with EN 60204-1 	Yes
halogen-free	Yes
• sealable	Yes
• silicon-free	Yes
product extension / installable / supplementary devices	Yes
Short circuit	
breaking capacity short-circuit current (Icn)	
 at AC / acc. to UL 1077 and CSA C22.2 No.235 	5 kA
Connections	
connectable conductor cross-section / solid	
• minimum	0.75 mm ²
maximum	35 mm ²
connectable conductor cross-section / stranded	
• minimum	0.75 mm ²
maximum	35 mm²
connectable conductor cross-section / finely stranded / with core end processing	
• minimum	0.75 mm²
• maximum	25 mm²
AWG number / as coded connectable conductor cross section	
• minimum	18
maximum	4
tightening torque [lbf·in] / with screw-type terminals	
• minimum	22 lbf·in
maximum	31 lbf·in
tightening torque / with screw-type terminals	
• minimum	2.5 N·m
maximum	3.5 N·m
position / of power supply cord	Any
Mechanical Design	
height	90 mm
width	54 mm
depth	76 mm
installation depth	70 mm
number of modular width units	3
fastening method	Quick assembly system
mounting position	any
net weight	461 g
Environmental conditions	
influence of the surrounding temperature	max. 95% to 55°C, max. 55% to 70°C, max. 35% to 75°C
vibration resistance / acc. to IEC 60068-2-6	±1mm at 5 to 25Hz; 50m/s² at 25 to 150Hz
ambient temperature / during operation	
• minimum	-25 °C
• maximum	55 °C
ambient temperature / during storage	
• minimum	-40 °C
• maximum	75 °C

number of test cycles / for environmental testing / acc. to IEC 60068-2-30

Certificates

reference code

• acc. to DIN EN 61346-2

• acc. to IEC 81346-2

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General Product Approval











Miscellaneous

General Product Approval Declaration of Conformity

Test Certificates

Marine / Shipping

EHC



Miscellaneous







Marine / Shipping



Further information

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=5SY6318-7

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

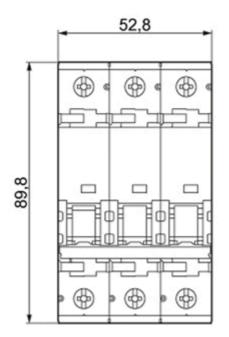
https://support.industry.siemens.com/cs/ww/en/ps/5SY6318-7

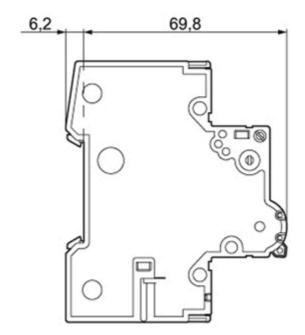
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ ...)$

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY6318-7

Tender specifications

http://www.siemens.com/specifications





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