SIEMENS

Data sheet 5SP4380-7



Miniature circuit breaker 400 V 10kA, 3-pole, C, 80 A, D=70 mm

Model	
product brand name	SENTRON
product designation	Miniature circuit breaker
design of the product	5SP Miniature circuit breakers
General technical data	
number of poles	3
tripping characteristic class	C
mechanical service life (switching cycles) / typical	10 000
overvoltage category	3
degree of pollution	3
Voltage	
type of voltage / of the operating voltage	AC
insulation voltage (Ui)	
● at AC / rated value	440 V
● with multi-phase operation / at AC / rated value	440 V
Supply voltage	
supply voltage / at AC / rated value	400 V
Protection class	
protection class IP	IP20 with connected conductors, IP40 in the area of the handle with distribution cover
Switching capacity	
switching capacity current	
● acc. to EN 60898 / rated value	10 kA
Dissipation	
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	7 W
Current	
operational current	
● at 30 °C / rated value	80 A
● at 40 °C / rated value	76 A
● at 45 °C / rated value	73.6 A
● at 50 °C / rated value	71.6 A
● at 55 °C / rated value	69.6 A
● at 60 °C / rated value	67.2 A
● at AC / rated value	80 A
Product details	
product feature / touch protection	Yes
product component	
● tunnel terminals top	Yes

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● tunnel terminals 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
Connections	
connectable conductor cross-section / solid	
● minimum	25 mm²
● maximum	50 mm²
connectable conductor cross-section / stranded	
● minimum	25 mm²
● maximum	50 mm²
connectable conductor cross-section / finely stranded / with core end processing	
● minimum	25 mm²
● maximum	35 mm²
AWG number / as coded connectable conductor cross section	
● minimum	3
● maximum	1
tightening torque [lbf·in] / with screw-type terminals	
● minimum	22.1 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	81 mm
depth	76 mm
installation depth	70 mm
number of modular width units	4.5
fastening method	DIN rail and screw fixing
mounting position	any
net weight	792 g
Environmental conditions	
influence of the surrounding temperature	Max. 95% rel. humidity
shock resistance / acc. to IEC 60068-2-27	150m/s² at 11ms half-sine
vibration resistance / acc. to IEC 60068-2-6	50m/s² at 25 to 150Hz and 60m/s² at 35Hz (4sec)
ambient temperature / during storage	
● minimum	-40 °C
● maximum	75 °C
Certificates	
reference code	
● acc. to DIN EN 61346-2	F
● acc. to IEC 81346-2	FC

General Product Approval	Declaration of Conformity

Test Certificates	Marine / Shipping	other	Railway	Dangerous Good

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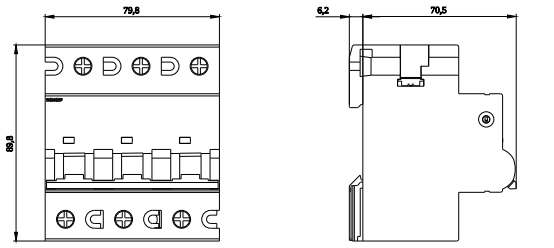
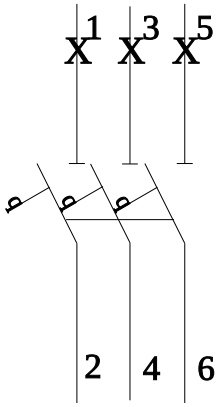
Further information

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=5SP4380-7
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/5SP4380-7
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SP4380-7
CAx-Online-Generator
http://www.siemens.com/cax
Tender specifications
http://www.siemens.com/specifications





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