## **SIEMENS**

Data sheet 5SL6016-6MF



Miniature Circuit Breaker Measuring RCM / EM Communication AC 230V 6kA, 1+N pole, B, 16A Please consider Radio approval! List of countries: see Certificates

Model				
product brand name	SENTRON			
product designation	Miniature circuit breaker			
design of the product	Miniature circuit breaker COM compact			
product variations	Notice! This is NOT a device with a residual-current protection function. This device must never be used instead of an RCD.			
type of measured value detection	completely			
General technical data				
design of pole	1P+N			
apparent power consumption of the power supply	1.4 VA			
tripping characteristic class	В			
mechanical service life (operating cycles) typical	10 000			
electrical endurance (operating cycles) at AC load in the mean value	7 500			
measurable line frequency initial value	45 Hz			
measurable line frequency full-scale value	65 Hz			
overvoltage category	III			
degree of pollution	2			
frequency with radio transmission minimum	2 400 MHz			
frequency with radio transmission maximum	2 483.5 MHz			
status display of the measured data	voltage, current, residual current, active power, apparent power, reactive power, active energy, line frequency, power factor, temperature, switching cycles, operating hours, tripping, warnings			
Voltage				
type of voltage of the operating voltage	AC			
insulation voltage (Ui) at AC rated value	285 V			
supply voltage with single-phase operation at AC rated value	230 V			
Supply voltage				
supply voltage				
at AC rated value	230 V			
value range of the supply voltage frequency	50/60 Hz			
operating voltage				
• minimum	120 V			
<ul> <li>with single-phase operation at AC maximum</li> </ul>	400 V			
Protection class				
protection class IP	IP20, with connected conductors			
protection class IP				
• on the front	IP40			
• rear side	IP20			
Switching capacity				
switching capacity current				

according to EN 60898 rated value	6 kA			
energy limitation class	3			
Dissipation				
power loss [W] for rated value of the current at AC in hot operating state per pole	2.4 W			
Residual current				
monitoring function of residual currents according to standard	DIN EN IEC 62020-1 (VDE 0663-1)			
type of residual current monitoring	Type F			
measuring channels with residual current	Base Frequency, Harmonics, Lowpass AC, Lowpass RMS, Bandpass, Highpass			
measuring precision of the residual current	3mA5mA: +/-30%; 5mA1000mA: +/-15%			
residual current at measuring range lower limit	0.003 A			
residual current at measuring range upper limit	1 A			
prewarning threshold of the residual current in factory setting	50 %			
prewarning threshold of the residual current at setting range lower limit	50 %			
prewarning threshold of the residual current at setting range upper limit	100 %			
residual current alarm threshold in factory setting	0.015 A			
residual current alarm threshold at setting range upper limit	0.3 A			
	0.01 A			
residual current alarm threshold at setting range lower limit frequency measuring range with residual current	<= 100kHz			
Suitability	7- IVON IZ			
suitability suitability for use				
ammeter	Yes			
	Yes			
reactive power meter     frequency meter	Yes			
• frequency meter				
• voltmeter	Yes			
wattmeter  Product details	Yes			
Product details				
product component	No			
• combined terminal top	No No			
combined terminal bottom	No			
neutral conductor switching	Yes			
product feature  • properties for main switches in accordance with EN 60204-1	No			
halogen-free	Yes			
sealable	Yes			
selicon-free	Yes			
product extension installable supplementary devices	Yes			
Communication	103			
	2014/53/ELL			
guideline via radio-controlled system	2014/53/EU			
protocol is supported	Wireless protocol			
Fault limits	hand on IFCC4FE7 40 IFCC00F0 00 IFCC00F0 00			
standards for error limits	based on IEC61557-12, IEC62053-22, IEC62053-23			
relative symmetrical measurement uncertainty [%]	0.5.0/			
for measured variable current	0.5 %			
for measured variable electrical energy	1 %			
Measuring inputs				
measurable supply voltage between (PE)N and L at AC				
• minimum	100 V			
• maximum	400 V			
measuring category for voltage measurement	CATIII according IEC 61010-2-030			
measuring procedure for current measurement	TRMS			
measuring procedure for voltage measurement	TRMS			
Connections				
connectable conductor cross-section solid				
• minimum	0.75 mm <sup>2</sup>			
maximum	16 mm²			
	10 111111			
connectable conductor cross-section stranded	10 111111			

• maximum	16 mm²						
connectable conductor cross-section finely stranded with core end processing							
• minimum	0.75 r	0.75 mm <sup>2</sup>					
• maximum	10 mm²						
tightening torque [lbf·in] with screw-type terminals							
• minimum	17.7 lbf·in						
• maximum	22.1 lbf·in						
tightening torque with screw-type terminals							
• minimum	1.2 N·m						
• maximum	2 N·m						
position of power supply cord	Any						
Mechanical Design							
height	90 mm						
width	18 mm						
depth	76 mm						
installation depth	70 mm						
number of modular width units	1						
fastening method	DIN rail						
mounting position	any						
net weight	125 g						
Environmental conditions							
standard	IEC/E	IEC/EN60898-1, GB/T10963.1					
<ul><li>for shocks</li></ul>	IEC 61373						
• for environmental sinusoidal oscillation check	IEC 60068-2-6						
vibration resistance according to IEC 60068-2-6	Yes						
ambient temperature during operation							
• minimum	-40 °C						
• maximum	70 °C						
ambient temperature during storage							
• minimum	-40 °C						
• maximum	75 °C						
number of test cycles for environmental testing according to IEC 60068-2-30	28						
Approvals Certificates							
General Product Approval		Test Certificates	other	Environment			

Confirmation





Miscellaneous

**Miscellaneous** 

Environmental Confirmations

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

 $\underline{https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5SL6016-6MF}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/5SL6016-6MF

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

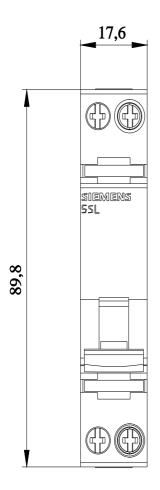
http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=5SL6016-6MF

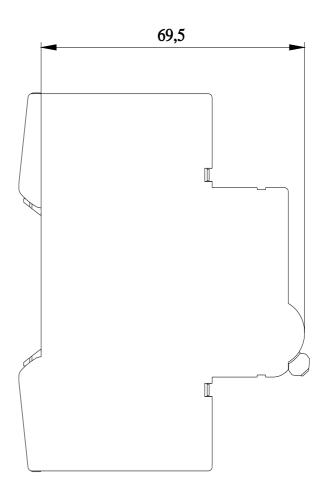
**CAx-Online-Generator** 

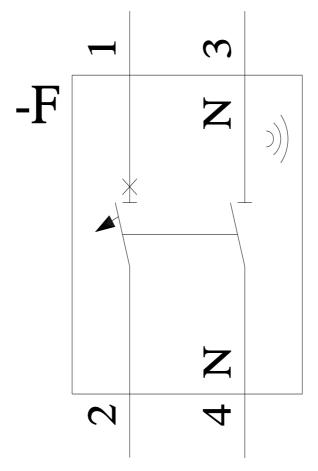
http://www.siemens.com/cax

**Tender specifications** 

http://www.siemens.com/specifications







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