SIEMENS

Product data sheet



CIRCUIT BREAKER 230/400V 10KA, 1-POLE, C, 4A, D=70MM

Similar to image

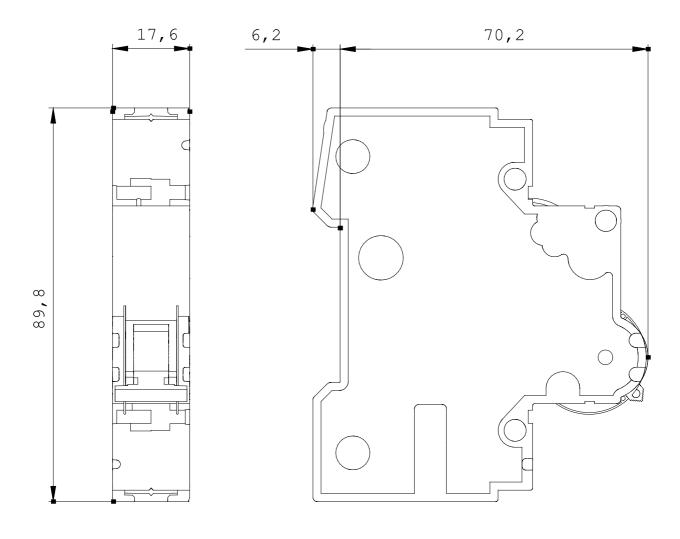
Technical data:					
Type of mounting		Quick assembly system			
type of voltage		AC/DC			
Height	mm	90			
Width	mm	18			
Depth	mm	76			
mounting position		any			
Mounting depth	mm	70			
Current / for AC / rated value	А	4			
Tripping characteristic class		C			
Supply voltage					
• for AC / rated value	V	400			
 with single-phase operation / with AC / rated value 	V	230			
• with multi-phase operation / with AC / rated value	V	400			
Switching capacity current					
• in accordance with IEC 60947-2 / rated value	kA	35			
• with DC / in accordance with IEC 60947-2 / rated value	kA	15			
acc. to EN 60898 / rated value	kA	10			
Breaking capacity short-circuit current (lcn)					

Number of bick outside	• with DC / in accordance with EN 60898-2	kA	10
Active power loss / at rated value current / with AC / in warm operating state / per pole 0.9 Number of pitch units for width 1 Product feature / sealable Ves Degree of polituion 3 Ambient temperature °C -25 +55 Ambient temperature -40 +765 - during storage 6"C -40 +765 Position / of power supply cord Any Product feature / sealable 20.000 Overvoltage cless 0.000 Overvoltage cless 0.0000 Overvoltage cless 100000 News inglie-phase operation / with AC / rated value Ves • with singlie-phase operation / with AC / rated value V • with singlie-phase operation / with AC / rated value V • with singlie-phase operation / with AC / rated value V • with singlie-phase operation / with AC / rated value V • with singlie-phase operation / with AC / rated value V • with singlie-phase operation / with AC / rated value V • with singlie-phase operation / with AC / rated value V • with singlie-phase operation / with AC / rate			
operating state / per pole[[[Number of picku units for width[1Product feature / sealableI3Degree of pollutionI3Ambient temperatureIC-25., 455Ambient temperatureIC-40 +75Position / of power supply cordIC3Product groept y properties for main switches in accordanceIC3Product groept y properties for main switches in accordanceIC3Product groept y properties for main switches in accordanceIC3Product groept y forperties for main switchesIC3Resistance against shock According to EC 60068-2:70IC3000/3Insulation outageIC3000/3Insulation outageIC3000/3		-	
Product feature / sealable Idea Yes Degree of pollution 3 3 Ambient temperature - - - during storage - 40 +75 Position / of power supply cord Any Any Product propert/ properties for main switches in accordance with EN 66026-1 Any 20.0000 Overvoltage class 3 3 Product projecties as operating time / typical 3 3 Overvoltage class 3 3 Product equipment / touch-protection Yes 3 Resistance against shock / according to IEC 60068-2:27 1500 Mos ² at 11ms half-sine Insulation voltage V 250 • with single-phase operation / with AC / rated value V 250 • with single-phase operation / with AC / rated value V 250 • as encoded connectable conductor cross-section If # 4 400 • selid mm ² 0.75 35 3 • finely stranded mm ² 0.75 35 3 • ordbuict etriminal top mm ² 0.75 35<	-	vv	0.9
Degree of polition3Ambient temperature°C-5 +55Ambient temperature°C-40 +75• during storage°C-40 +75Position / of power supply cordCAnyProduct property / properties for main switches in accordance with EN 6224-1YesMechanical operating cycles as operating time / typical20,000Overvoltage class3Product equipment / touch-protectionYesResistance against shock / according to IEC 60068-2-27Nowis'at 11ms half-sineInsulation voltageV250• with multi-phase operation / with AC / rated valueV250• with multi-phase operation / with AC / rated valueV440AWG numberImage and the storageImage and the storage• sa encoded connectable conductor cross-sectionNmm0.75 35• multibrinmm²0.75 35• multi-phase operation / with AC / rated valueVYes• solidmm²0.75 35• multi-phase operation / with AC / rated valueVYes• solidmm²0.75 35• multi-phase operation / with AC / rated valueYes• solidmm²0.75 35• multi-phase operationYes• with wire end processingmm²0.75 35• multi-phase operationYes• with wire end processingYes• with screw-type terminalsNm2.53• multi-phase operationYes• with screw-type terminals <td< td=""><td>Number of pitch units for width</td><td>-</td><td>1</td></td<>	Number of pitch units for width	-	1
Ambient temperature "C -25+35 Ambient temperature	Product feature / sealable		Yes
Ambient emperature during storage Image: Note of the storage	Degree of pollution	-	3
• during storage°C40 +75Position / of power supply cordIceAnyProduct property / properties for main switches in accordance with b620241YesMechanical operating cycles as operating time / typical20,000Overvoitage class9Product equipment / touch-protectionYesResistance against shock / according to IEC 60065-2-27150m/s² at 11ms half-sineInsulation votageV250• with single-phase operation / with AC / rated valueV440AWG numberV440• sencoded connectable conductor cross-sectionMm144Section de conducteur raccordablemm²0.7535• with wire end processingmm²0.7535• nultibrinmm²0.7535• nultibrinmm²0.7535• nultibrinmm²0.7535• nultibrinmm²0.7535• nultibrinmm²0.7535• nultibrinmm²0.7535• nultibrinmm²0.7535• nultibrinmm²0.7535• nultibrinmm²0.7535• nultibrin storew-type terminalsMm²23• nultibrin storew-type terminalsMm²226• nultibrin storew-type terminalsMm²23• this crew type terminalsMm²2	Ambient temperature	°C	-25 +55
Testino / of power supply cordImage: Position / of power supply cordImage: Position / of power supply cordProduct property / properties for main switches in accordance with EN 60204-1AnyYesMechanical operating cycles as operating time / typical0.0003Overvoitage class333Product equipment / touch-protectionYes150m/s² at 11ms half-sineResistance against shock / according to EC 60068-2-27150m/s² at 11ms half-sineInsulation voltageV250• with single-phase operation / with AC / rated valueV440AWG numberV440• as encoded connectable conductor cross-sectionImm²0.75 35• solidmm²0.75 35• intubininmm²0.75 35• intubinimm²0.75 25Product componentYes• combined terminal topYes• with screw-type terminalsYesTightening torqueN-M2.5 3• intely that screw connectionImm²0.75 25Product componentImm²2.5 3• with screw-type terminalsImm³2.5 3• into supplied - silicon-free]Imm³226• into screw connectionImm³Yes• into supplied - silicon-free]Yes• into screw thin EC 60068-2-30Yes	Ambient temperature		
Product property / properties for main switches in accordance with EN 60204-1 Yes Mechanical operating cycles as operating time / typical 20,000 Overvoltage class 3 Product equipment / touch-protection Yes Resistance against shock / according to IEC 60068-227 150m/s ² at 11ms half-sine Insulation voltage V 250 • with single-phase operation / with AC / rated value V 240 AWG number 11 4 40 • as encoded connectable conductor cross-section mm ² 0.75 35 • finely stranded mm ² 0.75 35 • with wire end processing mm ² 0.75 25 Product component Yes Yes • with screw-type terminals Ibf in 2.5 3 Tightening torque Ibf in 2.1 26 If with screw connection Ibf in 2.2 26 If with screw connection Yes Yes • into screw connection Yes Yes • into screw connection Yes Yes • with screw connection Yes Yes • into screw connection Yes	during storage	°C	-40 +75
with EN 60204-1IndexMechanical operating cycles as operating time / typical0,000Overvoltage class3Product equipment / touch-protectionIdealRestance against shock / according to IEC 60068-2.27IdealInsulation voltageV• with single-phase operation / with AC / rated valueV• with single-phase operation / with AC / rated valueV• with multi-phase operation / with AC / rated valueV• as encoded connectable conductor cross-sectionIdeal• as encoded connectable conductor cross-sectionImma• solidmm20.7535• nutlibrinmm20.7535• util with end processingmm20.7535• roduct componentMm2Yes• combined terminal topMm21.30• combined terminal bottomMn32.53• furties reverye terminalsMn42.53• with screw opnectionIbfin2.226• with screw opnectionIbfinYes• with screw opnectionYes• with screw opnectionYes• util screw opnection <td>Position / of power supply cord</td> <td></td> <td>Any</td>	Position / of power supply cord		Any
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 V 250 • with single-phase operation / with AC / rated value V 440 AWG number 14 4 4 • solid mm² 0.75 35 • nutlibrin mm² 0.75 35 • nutlibrin mm² 0.75 35 • with wire end processing mm² 0.75 35 • roublined terminal top Yes Section de conductour • with screev-type terminals Nem 2.5 3 • roublined terminal top Yes Section de conductour • with screev connection Yes Section de conductour • with screev connection Product component Yes • with screev connection Yes Section de conductour • with screev connection Product feature Yes • with screev connection Yes Yes • halogen-free Yes Yes <td></td> <td></td> <td>Yes</td>			Yes
Product equipment / touch-protection Yes Resistance against shock / according to IEC 60068-2-27 150m/s² at 11ms half-sine Insulation voltage V 250 • with single-phase operation / with AC / rated value V 440 AWG number V 440 • as encoded connectable conductor cross-section 14 4 Section de conducteur raccordable mm² 0.75 35 • solid mm² 0.75 35 • with wire end processing mm² 0.75 35 • with screw onpenent Yes Yes • combined terminal top Yes Yes • with screw onpenetion Yes Yes • with screw onpenetion Yes Yes • with screw onnection Yes Yes Tightening torque Yes Yes • with screw onnection Yes Yes • product feature Yes Yes • product feature Yes Yes • with screw connection Yes Yes • product feature Yes	Mechanical operating cycles as operating time / typical		20,000
Resistance against shock / according to IEC 60068-2-27 150m/s² at 11ms half-sine Insulation voltage V 250 • with single-phase operation / with AC / rated value V 400 AWG number V 400 • as encoded connectable conductor cross-section 14 4 • solid mm² 0.75 35 • multibrin mm² 0.75 35 • nultibrin mm² 0.75 35 • with wire end processing mm² 0.75 35 Product component Yes Yes • combined terminal top Yes Yes • with screw-type terminals Nm 25 3 Tightening torque Nm 25 3 • with screw connection Yes Yes • this crew connection Nm 25 3 Tightening torque Yes Yes • with screw connection Yes Yes • this crew connection Yes Yes • this crew connection Yes Yes • this crew connection Yes Yes • halogen-/ree Yes Yes <td>Overvoltage class</td> <td></td> <td>3</td>	Overvoltage class		3
Insulation voltage V 250 with single-phase operation / with AC / rated value V 440 AWG number V 440 • as encoded conductor cross-section 14 4 Section de conducteur raccordable mm² 0.75 35 • solid mm² 0.75 35 • inultibrin mm² 0.75 35 • inultibrin mm² 0.75 35 • with wire end processing mm² 0.75 35 • combined terminal top ves ves • combined terminals bottom Yes Yes Tightening torque N-m 2 26 with screw-type terminals N-m 2 26 Product feature Yes Yes • not supplied - silicon-free] Yes Yes • not supplied - silicon-free] Yes Yes • halogen-free Yes Yes Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30 Yes	Product equipment / touch-protection		Yes
with single-phase operation / with AC / rated valueV250with multi-phase operation / with AC / rated valueV440AWG number144- as encoded connectable conductor cross-section144Section de conducteur raccordablemm²0.7535- solidmm²0.7535- multibrinmm²0.7535- with wire end processingmm²0.7525Product componentmm²Yes- combined terminal topYesYes- combined terminalsN·m253Tightening torqueN·m253with screw-type terminalsN·m253Tightening torque (lof-in)N·m253- with screw connectionN·m253Tightening torque (lof-in)N·m253- not supplied - silicon-free]N·m253- Inot supplied - silicon-free]Yes- halogen-freeYesNumber of test cycles / for environmental testing / in acordance with IEC 60068-2-30G	Resistance against shock / according to IEC 60068-2-27		150m/s ² at 11ms half-sine
with multi-phase operation / with AC / rated valueV440AWG numberII• as encoded connectable conductor cross-sectionIISection de conducteur raccordablemm20.75 35• solidmm20.75 35• multibrinmm20.75 35• finely strandedmm20.75 35• with wire end processingmm20.75 35Product componentYesYes• combined terminal topYesYes• with screw-type terminalsN·m2.5 3Tightening torqueIbf-in2.5 3• with screw connectionIbf-in2.5 3Product featureIbf-inYes• not supplied - silicon-free]Ibf-inYes• halogen-freeYesYesNumber of test cycles / for environmental testing / in accondance with IEC 60068-2-30GG	Insulation voltage		
AWG number I 4 4 section de conducteur raccordable mm2 • solid nm2 • solid 0.75 35 • multibrin mm2 • with vire end processing mm2 • with wire end processing mm2 Product component Yes • combined terminal top Yes • combined terminal bottom N·m Tightening torque N·m • with screw-type terminals N·m Tightening torque (lof-in) Ibf-in • with screw connection Ibf-in Product feature Yes • [not supplied - silicon-free] Yes • halogen-free Yes Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30 G	 with single-phase operation / with AC / rated value 	V	250
· as encoded connectable conductor cross-section14 4Section de conducteur raccordable///////////////////////////////	• with multi-phase operation / with AC / rated value	V	440
Section de conducteur raccordable mm2 N.75 35 • solid mm2 0.75 35 • multibrin mm2 0.75 35 • finely stranded mm2 0.75 35 • with wire end processing mm2 0.75 35 Product component mm2 0.75 25 • combined terminal top mm2 0.75 25 Tightening torque Yes Yes • with screw-type terminals N-m2 2 3 Tightening torque (lbf-in) N-m2 2 26 Product feature Yes Yes • (not supplied - silicon-free] Yes Yes • halogen-free Yes Yes Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30 Ge Ge	AWG number		
• solidnm20.75 35• multibrinmm20.75 35• finely strandedmm20.75 25• with wire end processingmm20.75 25Product componentmm2Ves• combined terminal topYes• combined terminal bottomMm22.5 3Tightening torqueN-m2.5 3• with screw-type terminalsN-m2.5 3Tightening torque (lbf-in)June2.1 26• with screw connectionIbf-in2.1 26Product featureYesYes• halogen-freeYes• halogen-freeYesNumber of test cycles / for environmental testing / in accordance with IEC 60068-2-30G	as encoded connectable conductor cross-section		14 4
• multibrinmm²0.75 35• finely strandedmm²0.75 25• with wire end processingmm²0.75 25Product componentYesYes• combined terminal topYesYes• combined terminals bottomN·m2.5 3Tightening torqueN·m2.5 3• with screw-type terminalsN·m2.5 3Tightening torque (lbf-in)Ibf-in2 26• with screw connectionIbf-inYesProduct featureYesYes• halogen-freeYesMuber of test cycles / for environmental testing / in with EC 60068-2-30See Gall	Section de conducteur raccordable		
• finely strandedImm20.75 25Product componentmm20.75 25• combined terminal topYesYes• combined terminal bottomYesYesTightening torqueN·m2.5 3• with screw-type terminalsIbf-in22 26Product featureYesYes• (not supplied - silicon-free]YesYes• halogen-freeYesYesNumber of test cycles / for environmental testing / in accurate with IEC 60068-2-30See Accurate Accur	• solid	mm²	0.75 35
• with wire end processingnm20.75 25Product component• combined terminal topYes• combined terminal bottomYesTightening torqueN·m2.5 3• with screw-type terminalsN·m2.5 3Tightening torque (lbf-in)Ibf-in22 26• with screw connectionIbf-inYes• finot supplied - silicon-free]YesYes• halogen-freeYesYesNumber of test cycles / for environmental testing / in accordance with IEC 60068-2-30SiloenSiloen	• multibrin	mm²	0.75 35
Product componentImage: state of the state of	finely stranded		
• combined terminal topYes• combined terminal bottomYesTightening torqueN·m• with screw-type terminalsN·mTightening torque (lbf-in)25 3• with screw connectionIbf-in• with screw connectionIbf-inProduct featureYes• [not supplied - silicon-free]Yes• halogen-freeYesNumber of test cycles / for environmental testing / in accordance with IEC 60068-2-30G	with wire end processing	mm²	0.75 25
• combined terminal bottomYesTightening torque• with screw-type terminalsN·mTightening torque (lbf-in)2.5 3• with screw connectionIbf-in• balogen-free22 26• halogen-freeYesNumber of test cycles / for environmental testing / in accordance with IEC 60068-2-30See See See See See See See See See See	Product component		
Tightening torqueN-m2.5 3• with screw-type terminalsN-m2.5 3Tightening torque (lbf-in)Ibf-in22 26• with screw connectionIbf-in22 26Product featureYesYes• halogen-freeYesYesNumber of test cycles / for environmental testing / in accordance with IEC 60068-2-306	combined terminal top		Yes
• with screw-type terminalsN·m2.5 3Tightening torque (lbf·in)Ibf·in22 26• with screw connectionIbf·in22 26Product featureYesYes• [not supplied - silicon-free]YesYes• halogen-freeYesYesNumber of test cycles / for environmental testing / in accordance with IEC 60068-2-3061	combined terminal bottom	_	Yes
Tightening torque (lbf-in)Ibf-in22 26• with screw connectionIbf-in22 26Product featureYesYes• halogen-freeYesYesNumber of test cycles / for environmental testing / in accordance with IEC 60068-2-306	Tightening torque		
• with screw connectionIbf-in22 26Product feature22 26• [not supplied - silicon-free]Yes• halogen-freeYes• Number of test cycles / for environmental testing / in accordance with IEC 60068-2-306	with screw-type terminals	N∙m	2.5 3
Product feature Yes • [not supplied - silicon-free] Yes • halogen-free Yes Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30 6	Tightening torque (Ibf-in)		
• [not supplied - silicon-free] Yes • halogen-free Yes Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30 6	with screw connection	lbf∙in	22 26
 halogen-free Yes Number of test cycles / for environmental testing / in accordance with IEC 60068-2-30 6 	Product feature		
Number of test cycles / for environmental testing / in 6 accordance with IEC 60068-2-30 6	 [not supplied - silicon-free] 		Yes
accordance with IEC 60068-2-30	• halogen-free		Yes
Item designation / according to DIN EN 61346-2 F			6
	Item designation / according to DIN EN 61346-2		F

Certificates/appro	ovals:					
General Product A	Approval					
	GOST	MQ	KETI			
Declaration of Conformity	Test Certificates					
EG-Konf.	Special Test Certificate					
Shipping Approva	I				other	
BUREAU VERITAS	ĴÅ DNV DNV	G L Constant	Lloyd's Kegister LRS	RINA	<u>other</u>	
Further information	on:					
nformation- and Downloadcenter (Catalogs, Brochures,) http://www.siemens.com/lowvoltage/catalogs						
Industry Mall (Onlinhttp://www.siemens.com	e ordering system) com/lowvoltage/mall					
	Manuals, Certificates, Gation.siemens.com/WW/					
Image database (pr	oduct images, 2D dim	ension drawings, 3D	models, device circui	t diagrams,)		

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5SY4104-7

CAx-Online-Generator http://www.siemens.com/cax



last change:

Apr 15, 2013