## SIEMENS

## Data sheet

## 3VA6140-7JP31-2AA0



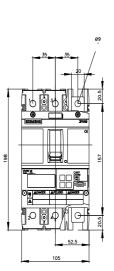
Circuit breaker 3VA6 UL Frame 150 breaking capacity class C 100kA @ 480V 3-pole, Line protection ETU550, LSI, In=40A overload protection, 100% rated Ir=16A...40A Short-circuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection optionally with external CT, up to 160% without connection

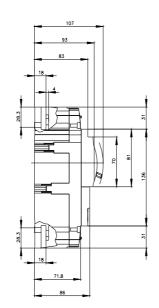
Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CDAE
design of the product	System protection
design of the load switch / according to UL 489 / Heating, Air Conditioning, and Refrigeration circuit breaker (HACR Type)	Yes
design of the overcurrent release	ETU550
protection function of the overcurrent release	LSI
number of poles	3
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	2.4 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.8 W
mechanical service life (operating cycles) / typical	25 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	14 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	9 800
electrical endurance (operating cycles) / at 480 V	14 000
electrical endurance (operating cycles) / at 600 V	9 800
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	Yes
ground-fault monitoring version	without
product function	
<ul> <li>communication function</li> </ul>	Yes
<ul> <li>other measurement function</li> </ul>	No
Net Weight	2.3 kg
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
operational current	
• at 40 °C	40 A
● at 45 °C	40 A
● at 50 °C	40 A
● at 55 °C	40 A
• at 60 °C	40 A
● at 65 °C	40 A
• at 70 °C	40 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	С
maximum short-circuit current breaking capacity (Icu)	

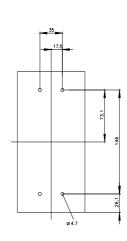
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (Ics)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	3.8 kA
Switching capacity according to UL 489	
current breaking capacity	200 //4
• at 240 V	200 kA
• at 480 V	100 kA
• at 600 V	35 kA
Adjustable parameters	
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	16 A
• maximum	40 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic	
• minimum	0.5 s
• maximum	25 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic	
• minimum	24 A
• maximum	400 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
minimum	24 A
• maximum	400 A
adjustable response value delay time (tsd) / for S-tripping / with l0t characteristic	
minimum	0.05 s
• maximum	0.5 s
adjustable response value delay time (tsd) / for S-tripping / with	0.55
I2t characteristic	
• minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (li) / for I-tripping	
• minimum	60 A
• maximum	480 A
adjustable setting current (InN) / for N-tripping	
minimum	0 A
• maximum	0A
adjustable delay time / of S-trip / with I2t characteristic	0.5 s
adjustable delay time / of 5-tip / with 12t characteristic	0.00
short-circuit trip unit	
• minimum	60 A
• maximum	480 A
design of the N-conductor protection	adjustable OFF; 40% to 160%
product function / grounding protection	No
Mechanical Design	
product component	
	No
undervoltage release	
voltage trigger	No
trip indicator	No
height [in]	7.8 in
height	198 mm
width [in]	4.13 in
width	105 mm

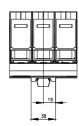
depth [in]		1	3.39 in		
depth			36 mm		
Connections					
arrangement of electric	cal connectors / for main cur	rent circuit	Nithout connection		
type of electrical conne	ection / for main current circi	uit \	Vithout		
Auxiliary circuit					
number of CO contacts	s / for auxiliary contacts	(	)		
Accessories					
product extension / opt	tional / motor drive	Ň	Yes		
invironmental conditio	ons				
protection class IP / on	the front		P40		
ambient temperature					
<ul> <li>during operation</li> </ul>	n / minimum		25 °C		
<ul> <li>during operation</li> </ul>	n / maximum	-	70 °C		
<ul> <li>during storage /</li> </ul>	minimum		40 °C		
<ul> <li>during storage /</li> </ul>	maximum	ξ	30 °C		
Certificates					
reference code / accord	ding to IEC 81346-2	(	ç		
certificate of suitability vessels) / supplement s	/ as approval for NAVAL (no SB	o combat	ſes		
General Product App					
Contrain Froduct App	proval				
<u>Confirmation</u>		(UL) III	<b>U</b>	<u>Miscellaneous</u>	EAC
	ccc Declaration of Conform	UL UL	UL Marine / Shipping	<u>Miscellaneous</u>	CONTRACTOR
Confirmation	CCC	-	Warine / Shipping	Miscellaneous	
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EMC EMC	CCC Declaration of Conform	UK CA	ABS	Ĵ.Å DNV	other

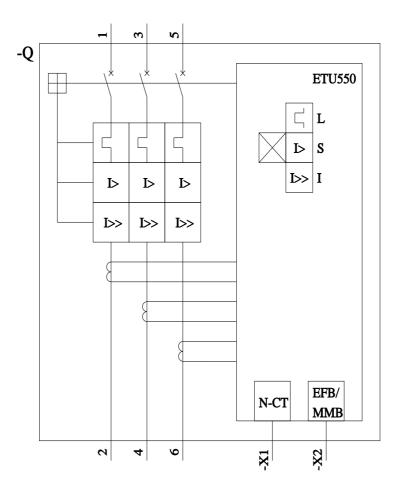
ner information
mens has decided to exit the Russian market (see here). bs://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
mens is working on the renewal of the current EAC certificates. ase contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to a C relevant market (other than the sanctioned EAEU member states Russia or Belarus).
ormation on the packaging ps://support.industry.siemens.com/cs/ww/en/view/109813875
ormation- and Downloadcenter (Catalogs, Brochures,) o://www.siemens.com/lowvoltage/catalogs
ustry Mall (Online ordering system) ps://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6140-7JP31-2AA0
rvice&Support (Manuals, Certificates, Characteristics, FAQs,) ps://support.industry.siemens.com/cs/ww/en/ps/3VA6140-7JP31-2AA0
age database (product images, 2D dimension drawings, 3D models, device circuit diagrams,) ://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6140-7JP31-2AA0
x-Online-Generator
nder specifications

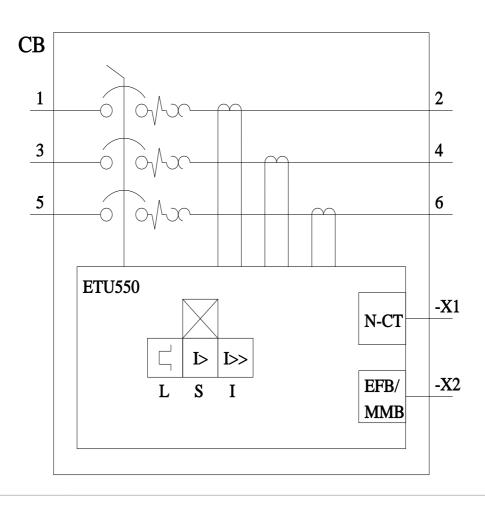












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