SIEMENS

Data sheet

3VA6440-7KM31-2AA0



Circuit breaker 3VA6 UL Frame 600 breaking capacity class C 100kA @ 480V 3pole, Line protection ETU830, LIG, In=400A overload protection, 100% rated Ir=160A...400A Short-circuit protection Ii=1.5...12 x In Ground-fault protection Ig=0.2...1 x In, tg=0.05-0.8s without connection

Model	
product brand name	SENTRON
product designation	Molded-case circuit breaker
product designation / according to UL file	CLAE
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	ETU830
protection function of the overcurrent release	LIG
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	70 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	23.33 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	4 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500
electrical endurance (operating cycles) / at 480 V	4 000
electrical endurance (operating cycles) / at 600 V	3 500
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Summation current formation L-conductor
product function	
 communication function 	Yes
 other measurement function 	Yes
Net Weight	5.3 kg
Current	
marking / according to UL 489 / 100%-rated breaker	Yes
operational current	
● at 40 °C	400 A
● at 45 °C	400 A
● at 50 °C	400 A
● at 55 °C	400 A
● at 60 °C	400 A
● at 65 °C	400 A
• at 70 °C	400 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	6 kA
operating short-circuit current breaking capacity (lcs)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 690 V	6 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
• at 415 V	242 kA
• at 690 V	9 kA
Switching capacity according to UL 489	
current breaking capacity	
• 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	
l2t characteristic	
• minimum	150 A
• maximum	400 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 (li) / for I-tripping	
• minimum	600 A
• maximum	4 800 A
adjustable current response value current / for G-tripping / with standard characteristic	
initial value	80 A
• full-scale value	400 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic	
• minimum	80 A
• maximum	400 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic	
• minimum	0.05 s
• maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
• minimum	0 A
• maximum	0 A
adjustable current response value current / of instantaneous short-circuit trip unit	
• minimum	600 A
• maximum	4 800 A
product function / grounding protection	Yes
total break time / for G-tripping / with standard characteristic	
initial value	0.05 s
• full-scale value	0.8 s
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
trip indicator	No
	9.76 in
height [in]	
height	248 mm
width [in]	5.43 in

width			138 mm		
depth [in]			4.33 in		
depth			110 mm		
onnections					
arrangement of electri	cal connectors / for main	current circuit	Without connection		
type of electrical conn	ection / for main current c	ircuit	Without		
uxiliary circuit					
number of CO contact	s / for auxiliary contacts		0		
ccessories					
product extension / op	tional / motor drive		Yes		
nvironmental conditi	ons				
protection class IP / or	n the front		IP40		
ambient temperature					
 during operation 	n / minimum		-25 °C		
 during operation 	n / maximum		70 °C		
 during storage / 	' minimum		-40 °C		
 during storage / 	maximum		80 °C		
ertificates					
reference code / accor	rding to IEC 81346-2		Q		
certificate of suitability vessels) / supplement	/ as approval for NAVAL SB	(no combat	Yes		
General Product App	proval				
Confirmation					
Committation		(h) L		<u>Miscellaneous</u>	EHC
EMC	CCC	ormity	Marine / Shipping	<u>Miscellaneous</u>	Conter
	Declaration of Confe UK	ormity EG-Konf.	Marine / Shipping	Miscellaneous	
		CE	ABS	<u>Ĵå</u> dinv	other
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EMC ECM	UK CA	EG-Konf,	ABS	<u>Ĵå</u> dinv	other

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA6440-7KM31-2AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA6440-7KM31-2AA0

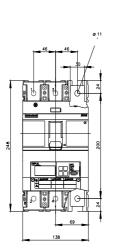
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA6440-7KM31-2AA0

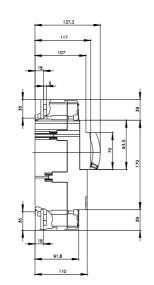
CAx-Online-Generator

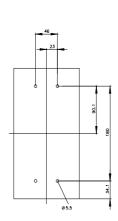
http://www.siemens.com/cax

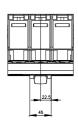
Tender specifications

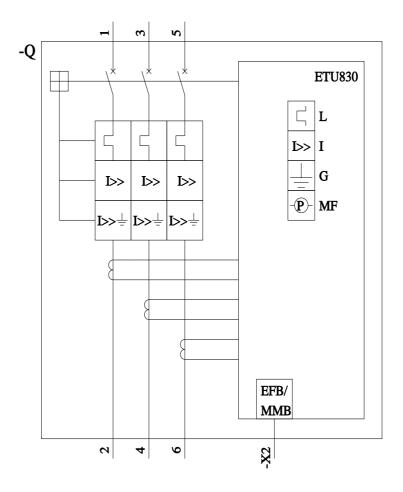
http://www.siemens.com/specifications







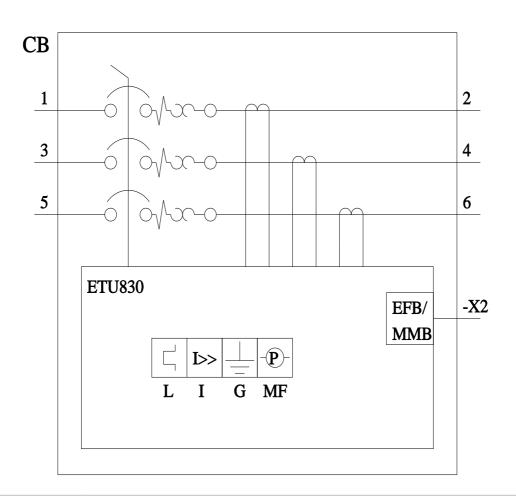




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