SIEMENS

Data sheet



circuit breaker 3VA2 IEC frame 160 breaking capacity class H Icu=85kA @ 415V 4-pole, line protection ETU560, LSIG, ln=40A overload protection lr=16A...40A short-circuit protection Isd=0.6..10x In, li=1.5..12x In N conductor protection adjustable (OFF, up to 160%) gr.-fault prot., can be sw. off lg=0.4...1 x ln= tg=0.05-0.8s nut keeper kit

Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	ETU560
protection function of the overcurrent release	LSIG
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	1.6 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	0.53 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
product feature / for neutral conductors / upgradable/retrofittable / short-circuit and overload proof	No
ground-fault monitoring version	Summation current formation L + N conductor
product function	
 communication function 	Yes
other measurement function	No
Net Weight	2.758 kg
Current	
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	Н
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	110 kA
• at 415 V	85 kA
• at 440 V	85 kA
• at 500 V	55 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (Ics)	

• at 240 V	110 kA
• at 415 V	85 kA
• at 440 V	85 kA
• at 500 V	55 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	242 kA
• at 415 V	187 kA
• at 440 V	187 kA
● at 500 V	121 kA
• at 690 V	3.7 kA
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
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 (lsd) / of S-trip / with l0t characteristic	
• minimum	24 A
maximum	400 A
adjustable response value setting current (lsd) / of S-trip / with l2t characteristic	
• minimum	24 A
maximum	400 A
adjustable response value delay time (tsd) / for S-tripping / with l0t characteristic	
	0.05 s
• minimum	0.05 s 0.5 s
maximum adjustable response value delay time (tsd) / for S-tripping / with 12t characteristic	0.5 \$
minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (li) / for I-tripping	
• minimum	60 A
• maximum	480 A
adjustable current response value current / for G-tripping / with	
standard characteristic	46.4
• initial value	16 A
• full-scale value	40 A
adjustable response value delay time (tg) / for G-tripping / with l0t characteristic	0.0 a
• maximum	0.8 s
adjustable response value setting current (lg) / for G-tripping / with l2t characteristic	16 A
• minimum	16 A
maximum adjustable response value delay time (tg) / for G-tripping / with 12t characteristic	40 A
minimum	0.05 s
• maximum	0.8 s
adjustable setting current (InN) / for N-tripping	
• minimum	16 A
maximum	64 A
design of the N-conductor protection	adjustable OFF; 40% to 160%
product function / grounding protection	Yes
Mechanical Design	
product component	
undervoltage release	No
voltage trigger	No
- voltago triggor	

trip indicator	No	
height [in]	7.13 in	
height	181 mm	
width [in]	5.51 in	
width	140 mm	
depth [in]	3.39 in	
depth	86 mm	
Connections		
arrangement of electrical connectors / for main current circuit	Front terminal	
type of electrical connection / for main current circuit	on both sides nut keeper kit	
type of connectable conductor cross-sections / for flat-bar terminal connection / minimum	13 x 1 mm	
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	25 x 8 mm	
design of the surface / of the connections / on the top of the switch $(N,1,3,5)$	tin	
design of the surface / of the connections / on the bottom of the switch $(N,2,4,6)$	tin	
Auxiliary circuit		
number of CO contacts / for auxiliary contacts	0	
Accessories		
product extension / optional / motor drive	Yes	
Environmental conditions		
protection class IP / on the front	IP40	
ambient temperature		
 during operation / minimum 	-25 °C	
during operation / maximum	70 °C	
during storage / minimum	-40 °C	
during storage / maximum	80 °C	
Certificates		
reference code / according to IEC 81346-2	Q	
General Product Approval		EMC

Confirmation





Miscellaneous





Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report

Miscellaneous



Marine / Shipping





CCS / China Classification Society

Confirmation

other

Miscellaneous

other

Dangerous Good

Environment

Miscellaneous

Transport Information

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)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3VA2140-6JQ42-0AA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3VA2140-6JQ42-0AA0

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

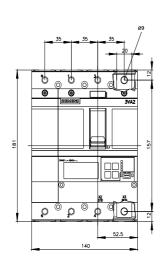
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2140-6JQ42-0AA0

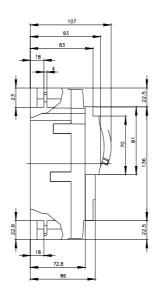
CAx-Online-Generator

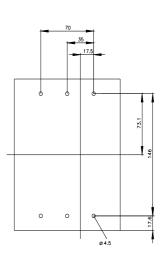
http://www.siemens.com/cax

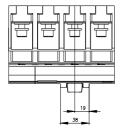
Tender specifications

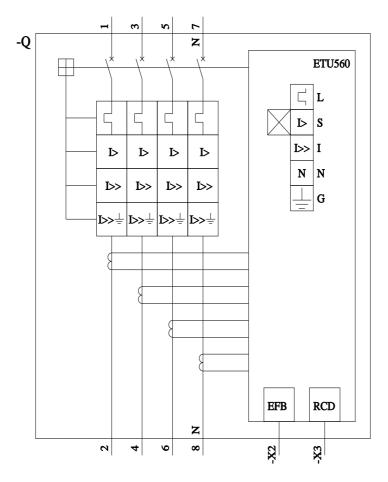
http://www.siemens.com/specifications











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