

Siemens
EcoTech



circuit breaker 3VA2 IEC frame 630 breaking capacity class H $I_{cu}=85\text{kA}$ @ 415V
4-pole, line protection ETU860, LSIG, $I_n=400\text{A}$ overload protection $I_r=160\text{A}\dots400\text{A}$
short-circuit protection $I_{sd}=0.6\dots10\times I_n$, $I_i=1.5\dots15\times I_n$ N conductor protection
adjustable (OFF, up to 160%) gr.-fault prot., can be sw. off $I_g=0.2\dots1\times I_n$ $t_g=0.05\text{--}0.8\text{s}$ 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	ETU860
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	63.5 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	21.17 W
mechanical service life (operating cycles) / typical	20 000
electrical endurance (operating cycles) / at AC-1 / at 380/415 V	5 000
electrical endurance (operating cycles) / at AC-1 / at 690 V	3 500
product feature / for neutral conductors / upgradable/retrofitable / short-circuit and overload proof	No
ground-fault monitoring version	Summation current formation L + N conductor
product function	
• communication function	Yes
• other measurement function	Yes
Net Weight	5.7 kg
Current	
short-time withstand current (I_{cw}) / limited to 1 s	5 kA
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	H
maximum short-circuit current breaking capacity (I_{cu})	
• at 240 V	110 kA
• at 415 V	85 kA

• at 440 V • at 500 V • at 690 V	85 kA 55 kA 6 kA
operating short-circuit current breaking capacity (Ics) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	110 kA 85 kA 85 kA 55 kA 6 kA
short-circuit current making capacity (Icm) • at 240 V • at 415 V • at 440 V • at 500 V • at 690 V	242 kA 187 kA 187 kA 121 kA 9 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 • maximum	160 A 400 A
adjustable response value delay time (tr) / for L-tripping / with I2t characteristic • minimum • maximum	0.5 s 25 s
adjustable response value setting current (Isd) / of S-trip / with I0t characteristic • minimum • maximum	240 A 4 000 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic • minimum • maximum	240 A 4 000 A
adjustable response value delay time (tsd) / for S-tripping / with I0t characteristic • minimum • maximum	0.05 s 0.5 s
adjustable response value delay time (tsd) / for S-tripping / with I2t characteristic • minimum • maximum	0.05 s 0.5 s
adjustable response value setting current (Ii) / for I-tripping • minimum • maximum	600 A 6 000 A
adjustable current response value current / for G-tripping / with standard characteristic • initial value • full-scale value	80 A 400 A
adjustable response value delay time (tg) / for G-tripping / with I0t characteristic • maximum	0.8 s
adjustable response value setting current (Ig) / for G-tripping / with I2t characteristic • minimum • maximum	80 A 400 A
adjustable response value delay time (tg) / for G-tripping / with I2t characteristic • minimum • maximum	0.05 s 0.8 s
adjustable setting current (InN) / for N-tripping • minimum • maximum	80 A 520 A
design of the N-conductor protection	adjustable OFF; 20% to 130%
product function / grounding protection	Yes

Mechanical Design					
product component					
• undervoltage release	No				
• voltage trigger	No				
• trip indicator	No				
height [in]	9.76 in				
height	248 mm				
width [in]	7.24 in				
width	184 mm				
depth [in]	4.33 in				
depth	110 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	20 x 1 mm				
type of connectable conductor cross-sections / for flat-bar terminal connection / maximum	35 x 10 mm				
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)	silver				
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)	silver				
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				
Environmental footprint					
Siemens Eco Profile (SEP)	Siemens EcoTech				
reference code / according to IEC 81346-2	Q				
Approvals / Certificates					
General Product Approval					
 EG-Konf.		 CCC	Confirmation	 VDE	Miscellaneous
General Product Approval	EMV	Test Certificates		Marine / Shipping	
	 RCM	Special Test Certificate	Miscellaneous	Type Test Certificates/Test Report	 ABS
Marine / Shipping					other
 BUREAU VERITAS	 DNV	 LRS	 RMRS	CCS (China Classification Society)	Confirmation
other		Dangerous Good		Environment	



Environment

[Environmental Con-
firmations](#)

Further information

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=3VA2440-6KQ42-0AA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3VA2440-6KQ42-0AA0>

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

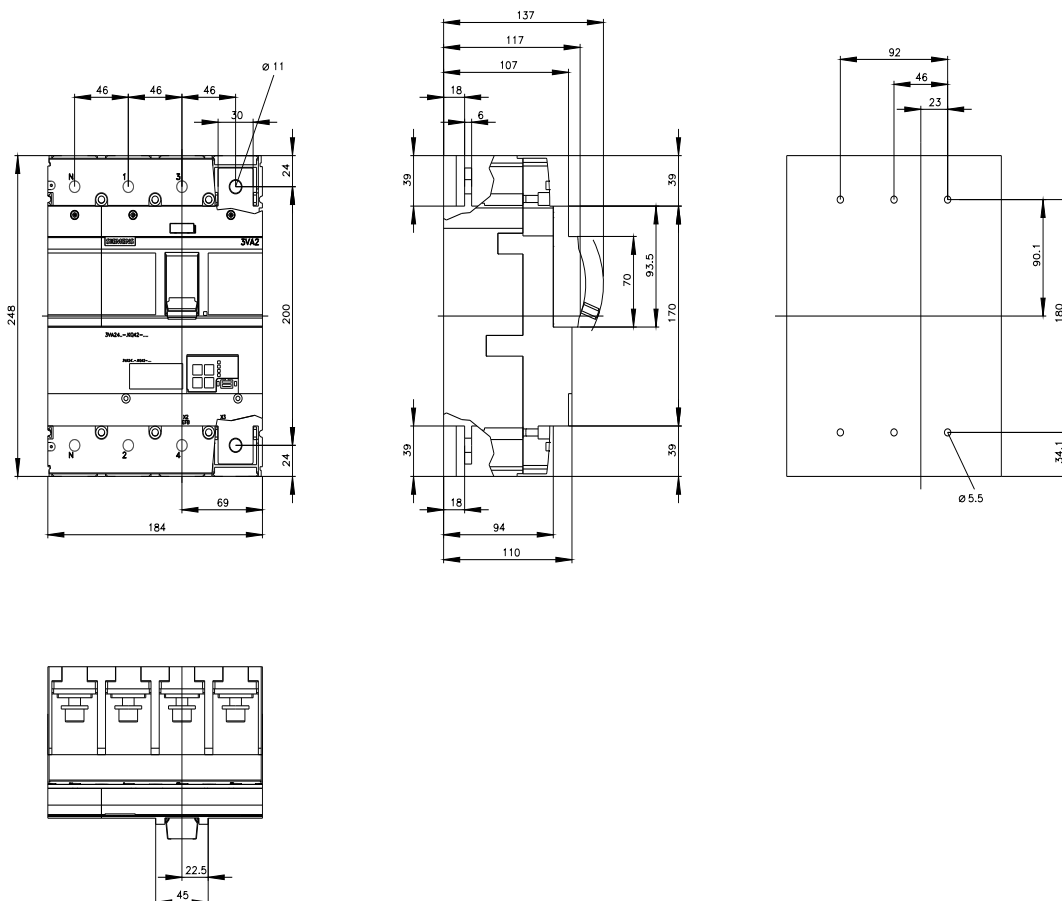
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3VA2440-6KQ42-0AA0

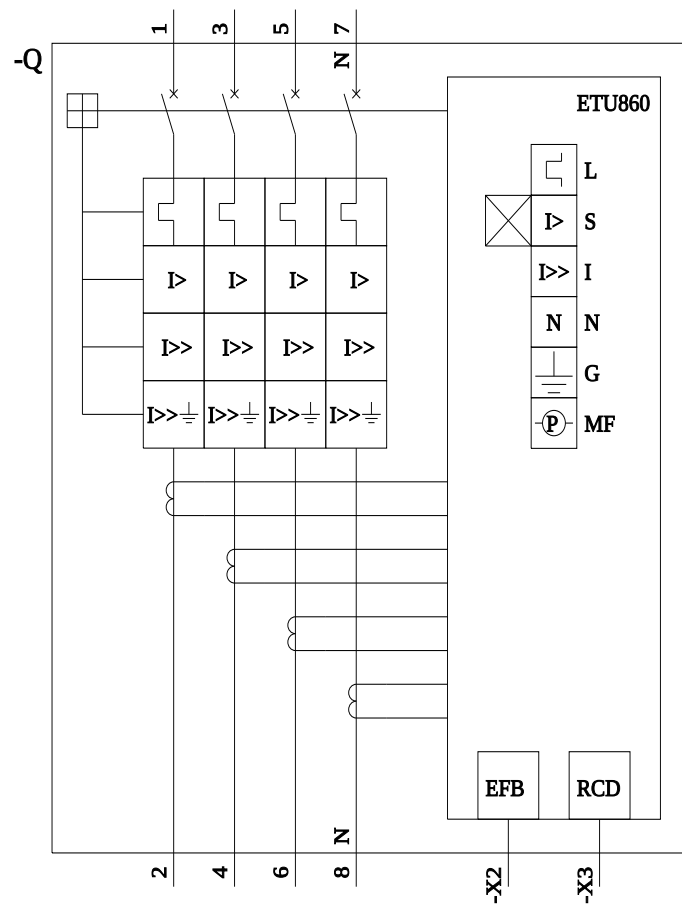
CAx-Online-Generator

<http://www.siemens.com/cax>

Tender specifications

<http://www.siemens.com/specifications>





last modified:

3/11/2024 

