SIEMENS

Data sheet

3VA2163-7KP42-0AA0

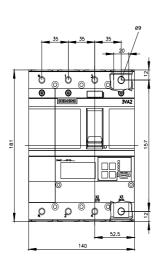


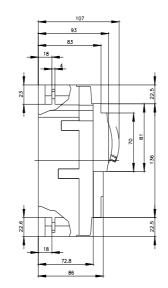
circuit breaker 3VA2 IEC frame 160 breaking capacity class C Icu=110kA @ 415V 4-pole, line protection ETU850, LSI, In=63A overload protection Ir=25A...63A shortcircuit protection Isd=0.6..10x In, Ii=1.5..12x In N conductor protection adjustable (OFF, up to 160%) nut keeper kit

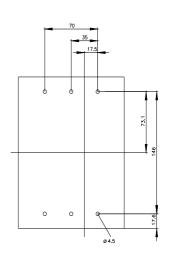
Model	
product brand name	SENTRON
product designation	Molded case circuit breaker
design of the product	Line protection
design of the overcurrent release	ETU850
protection function of the overcurrent release	LSI
number of poles	4
General technical data	
insulation voltage / rated value	800 V
operating voltage / at AC / rated value	690 V
power loss [W] / maximum	4 W
power loss [W] / for rated value of the current / at AC / in hot operating state / per pole	1.33 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	Without
product function	
 communication function 	Yes
 other measurement function 	Yes
Net Weight	3.2 kg
Current	
operational current	
● at 40 °C	63 A
● at 45 °C	63 A
● at 50 °C	63 A
● at 55 °C	63 A
● at 60 °C	63 A
• at 65 °C	63 A
• at 70 °C	63 A
Switching capacity according to IEC 60947	
switching capacity class of the circuit breaker	C
maximum short-circuit current breaking capacity (Icu)	
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	2.5 kA
operating short-circuit current breaking capacity (lcs)	

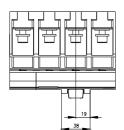
• at 240 V	150 kA
• at 415 V	110 kA
• at 440 V	110 kA
• at 500 V	85 kA
• at 690 V	2.5 kA
short-circuit current making capacity (Icm)	
• at 240 V	330 kA
● at 415 V	242 kA
• at 440 V	242 kA
● at 500 V	187 kA
• at 690 V	3.7 kA
Adjustable parameters	
product feature / for L-tripping / can be switched on/off	No
adjustable response value setting current (Ir) / of the L-trip / with I2t characteristic	
• minimum	25 A
• maximum	63 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 l0t characteristic	
• minimum	38 A
• maximum	630 A
adjustable response value setting current (Isd) / of S-trip / with I2t characteristic	
• minimum	38 A
• maximum	630 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 I2t characteristic	
● minimum	0.05 s
• maximum	0.5 s
adjustable response value setting current (li) / for I-tripping	
• minimum	95 A
• maximum	756 A
adjustable setting current (InN) / for N-tripping	
• minimum	25 A
• maximum	101 A
design of the N-conductor protection	adjustable OFF; 40% to 160%
product function / grounding protection	No
Mechanical Design	
product component undervoltage release 	No
	No
voltage triggertrip 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

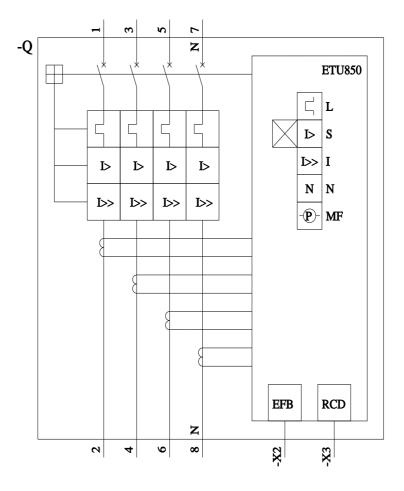
	of the connections / on the	ton of the	tin			
design of the surface / of the connections / on the top of the switch (N, 1, 3, 5)						
design of the surface / of the connections / on the bottom of the switch (N, 2, 4, 6)		tin				
Auxiliary circuit						
number of CO contacts	/ for auxiliary contacts		0			
Accessories						
product extension / opti	ional / 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	-40 °C			
during storage / maximum		80 °C				
Certificates						
reference code / accord	ding to IEC 81346-2		Q			
General Product App	roval					EMC
<u>Confirmation</u>	CCC CCC	DE	\$	<u>Miscellaneous</u>	EHC	RCM
Declaration of Confor	rmity	Test Certificate	es			Marine / Shipping
UK CA	CE EG-Konf.	<u>Type Test Cer</u> ates/Test Rep		<u>Special Test Certific-</u> <u>ate</u>	<u>Miscellaneous</u>	ABS
Marine / Shipping						
marine / Shipping					other	
BUREAU VERITAS		RMRS		<u>CCS / China Classific-</u> ation Society	other Confirmation	<u>Miscellaneous</u>
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