SIEMENS

Data sheet

3KC0434-2NE00-0AA0

SENTRON, Transfer switching equipment 3KC, manually operated, MTSE, size: 2, 4-pole, lu: 160 A, Ue AC: 415 V, le at AC-33 B at 415 V: 160 A, le at AC-23 A at 690 V: 125 A, screw and standard mounting rail on 35 mm, front operating mechanism, central, without handle, box terminal



Model			
product brand name	SENTRON		
product designation	3KC transfer switching equipment		
design of the product	manually operated		
display version / for switch position indicator door-coupling rotary operating mechanism	I ON- O OFF- II ON		
design of the actuating element	Without handle		
design of handle	without		
type of the driving mechanism	Front operating mechanism		
type of the driving mechanism / motor drive	No		
General technical data	-		
number of poles	4		
type of device	fixed mounting		
size of switch disconnector	2		
mechanical service life (switching cycles) / for function sequence O-I-O / typical	15 000		
I2t value			
 with closed switch / for combination switch + fuse / at 500 V / maximum 	135 600 A ² ·s		
 with closed switch / at 690 V / for combination switch + gG fuse / maximum 	178 300 A ² ·s		
 with closed switch / at 690 V / for combination switch + aM fuse / maximum 	201 200 A ² ·s		
 of the fuse / at 415 V / maximum permissible 	223 005 A ² ·s		
 of the fuse / at 500 V / maximum permissible 	223 005 A ² ·s		
 of the gG fuse / at 690 V / maximum permissible 	226 005 A ² ·s		
 of the aM fuse / at 690 V / maximum permissible 	235 000 A ² ·s		
 with closed switch / for combination switch + fuse / at 415 V / maximum 	135 600 A ² ·s		
position / of the switch operating mechanism	in center		
overvoltage category			
degree of pollution	3		
insulation voltage			
rated value	1 000 V		
Protection class			
protection class IP	IP20		
protection class IP			
 with closed switch / with cover or cable lug cover 	IP20		
• on the front	IP20		

Dissipation	
power loss [W]	
with conventional rated thermal current / per pole	7 W
with conventional rated thermal current / per device	28 W
 for rated value of the current / at AC / in hot 	7 W
operating state / per pole	
operational current	
• at 40 °C / rated value	160 A
 at 45 °C / rated value 	160 A
• at 50 °C / rated value	160 A
 at 55 °C / rated value 	160 A
 at 60 °C / rated value 	160 A
• at 65 °C / rated value	160 A
 at 70 °C / rated value 	160 A
 at AC / rated value 	160 A
 at AC-23 A / at 690 V / rated value 	125 A
 at AC-23 A / at 500 V / rated value 	160 A
 at AC-22 A / at 690 V / rated value 	160 A
at AC-22 A / at 500 V / rated value	160 A
• at AC-21 / at 690 V / rated value	160 A
• at AC-21 / at 500 V / rated value	160 A
• at AC-21 A / at 415 V / rated value	160 A
• at AC-22 A / at 415 V / rated value	160 A
• at AC-23 A / at 415 V / rated value	160 A
• at AC-31 B / at 415 V / rated value	160 A
• at AC-32 B / at 415 V / rated value	160 A
• at AC-33 B / at 415 V / rated value	160 A
• at AC-33 iB / at 415 V / rated value	160 A
• at AC-35 B / at 400 V / rated value	160 A
operational current / of upstream fuse / rated value	160 A
let-through current / of the fuse / at 500 V / maximum	18 005 A
permissible	
let-through current / of the gG fuse / at 690 V / maximum permissible	16 005 A
let-through current / of the aM fuse / at 690 V / maximum permissible	16 700 A
let-through current / with closed switch	
• at 690 V / for combination switch + aM fuse / maximum permissible	17 600 A
• at 690 V / for combination switch + gG fuse / maximum permissible	18 700 A
 for combination switch + fuse / at 500 V / maximum permissible 	17 900 A
Main circuit	
operating power	
• at AC-23 A / at 400 V / at 50/60 Hz / rated value	90 kW
at AC-23 A / at 500 V / rated value	110 kW
operational current / rated value	160 A
Auxiliary circuit	
number of connected NC contacts / for auxiliary contacts	0
number of connected NO contacts / for auxiliary contacts	0
number of connected CO contacts / for auxiliary contacts	0
number of CO contacts / for auxiliary contacts	8
number of NC contacts / for auxiliary contacts	0
number of NO contacts / for auxiliary contacts	0
suitability for use	No.
main switch	Yes
• switch disconnector	Yes
EMERGENCY OFF switch	Yes
 safety switch 	Yes

maintenance/repair switch	Yes			
product feature / interlock	No			
product extension / auxiliary switch	Yes			
product extension / optional				
motor drive	No			
voltage trigger	No			
Short circuit				
short-circuit current making capacity (Icm) / for switch				
disconnector				
 at 415 V AC / without fuse link / acc. to IEC 60947- 6-1 / rated value / minimum 	17 kA			
• at 690 V AC / without fuse link / acc. to IEC 60947-3 / rated value / minimum	12 kA			
conditional short-circuit current / with line-side fuse protection				
 at 415 V / by gG fuse / acc. to IEC 60947-6-1 / rated value 	100 kA			
 at 415 V / by gG fuse / rated value 	100 kA			
 at 500 V / by gG fuse / acc. to IEC 60947-3 / rated value 	100 kA			
 at 690 V / by gG fuse / acc. to IEC 60947-3 / rated value 	65 kA			
Connections				
type of connectable conductor cross-sections / with flexible busbar	3x (0.8x14 mm²)			
type of connectable conductor cross-sections				
 for copper busbar 	1x (3x14 mm²)			
type of connectable conductor cross-sections / for copper conductor				
• solid	1x (2.5 16 mm²)			
 finely stranded / with core end processing 	1x (2.5 70 mm²)			
stranded	1x (10 70 mm²)			
type of electrical connection				
 for main current circuit 	box terminal			
Mechanical Design				
height	126 mm			
width	309.6 mm			
depth	84.5 mm			
fastening method	Screw fixing and standard rail mounting 35 mm			
fastening method				
 4-hole front mounting 	No			
 front mounting with central attachment 	No			
rail mounting	Yes			
mounting position	any			
net weight	2 650 g			
Environmental conditions				
ambient temperature / during operation				
• minimum	-25 °C			
• maximum	70 °C			
ambient temperature / during storage	50 °C			
● minimum ● maximum	-50 °C 80 °C			
Certificates				
reference code acc. to DIN EN 61346-2 	Q			
 acc. to EC 81346-2 acc. to EC 81346-2 	Q			
	×	Declaration of		
General Product Approval		Conformity	Marine / Shipping	





Miscellaneous





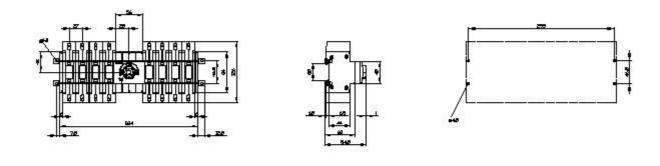


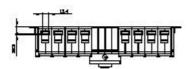
Marine / Shipping

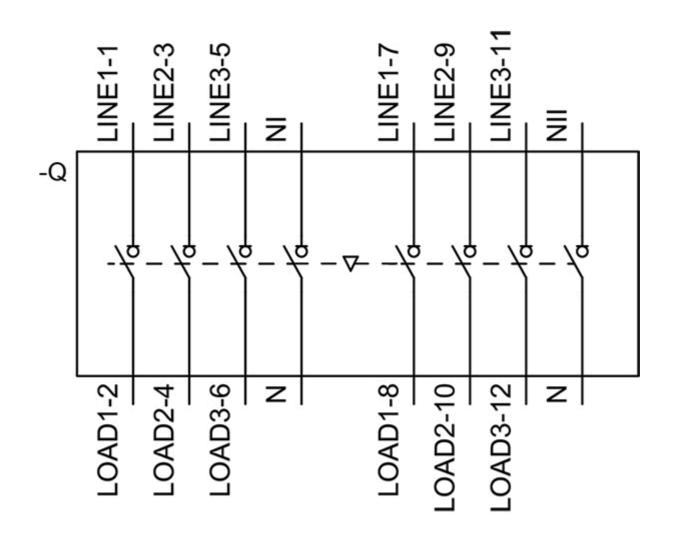


Further information

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=3KC0434-2NE00-0AA0 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3KC0434-2NE00-0AA0 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KC0434-2NE00-0AA0 CAx-Online-Generator http://www.siemens.com/cax Tender specifications http://www.siemens.com/specifications







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