



SETRON 3KC ATC6300; LCD; 144x144 mm; Transfer control device for control of MCCB, ACB, LBS; for load transfer between main and standby power supply Control panel instrument; Un 100...240 V AC 50/60 Hz, 110...250 V DC; Un 12...24 V DC Rated voltage Ue: 100...480 V AC 50/60 Hz; screw terminal connection Expandable by maximum 2 additional modules

Model	
Product brand name	SETRON
Product designation	Accessories for transfer switching equipment
Design of the product	3KC ATC6300
Operating temperature	
• minimum	-30 °C
• maximum	70 °C
Switchover time / of the control device	50 ms
Overvoltage category	3
power frequency withstand voltage / at auxiliary power supply / at AC	3 000 V
Operating period / without auxiliary voltage supply	300 s
Insulation voltage (Ui) / at auxiliary power supply / at AC / rated value	250 V
Impulse withstand voltage (Uimp) / of the auxiliary power supply / at AC / rated value	6 000 V
Interference immunity duration / against voltage dip/sag / at AC / at 220 V	
• without expansion modules / maximum	250 ms

<ul style="list-style-type: none"> • with 1 expansion module / maximum • with 2 expansion modules / maximum 	<p>180 ms</p> <p>120 ms</p>
Supply voltage / of the auxiliary power supply	
<ul style="list-style-type: none"> • at AC / Initial rated value • at AC / Final rated value • at AC / minimum • at AC / maximum • at DC / Initial rated value • at DC / Final rated value • at DC / minimum • at DC / maximum 	<p>100 V</p> <p>240 V</p> <p>90 V</p> <p>264 V</p> <p>110 V</p> <p>250 V</p> <p>93.5 V</p> <p>300 V</p>
Supply voltage / at DC power supply	
<ul style="list-style-type: none"> • Initial rated value • Final rated value • minimum • maximum 	<p>12 V</p> <p>24 V</p> <p>7.5 V</p> <p>33 V</p>
Protection class IP	
<ul style="list-style-type: none"> • on the front • Rear side 	<p>IP40</p> <p>IP20</p>
Apparent power consumption / at auxiliary power supply / at AC / at 240 V / maximum	9.5 V·A
Power loss [W] / at auxiliary power supply	
<ul style="list-style-type: none"> • at AC / at 240 V • at DC / at 250 V / maximum 	<p>3.8 W</p> <p>3.6 W</p>
Power loss [W] / at DC power supply	
<ul style="list-style-type: none"> • at 12 V / maximum • at 24 V / maximum 	<p>3.2 W</p> <p>2.9 W</p>
Consumed current / at DC power supply	
<ul style="list-style-type: none"> • at 12 V / maximum • at 24 V / maximum 	<p>230 mA</p> <p>120 mA</p>
Operating frequency / rated value	
<ul style="list-style-type: none"> • minimum • maximum 	<p>45 Hz</p> <p>66 Hz</p>
Number of CO contacts / for auxiliary contacts	1
Number of NC contacts / for auxiliary contacts	0
Number of NO contacts / for auxiliary contacts	6
Product component / of the hardware real-time clock / Backup battery	Yes
Product feature / of enclosure material	Polycarbonate
Number of slots	2

Communication

Design of the interface	Programmable baud rate, 1200 to 11500 bps
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Type of baud rate	programmable
Product component / RS 485 interface integrated	No
Protocol / is supported	RTU/ASCII/TCP
Number of digital inputs	6
Design of the switching input	Negative
Output voltage / at the relay outputs / at AC / maximum rated value	250 V
Input current / at digital input / with signal <0> / maximum	8 mA
Number of outputs / as contact-affected switching element	7
Output current / at the relay outputs	
• at AC-1 / at 250 V / rated value	8 A
• at AC-15 / at 250 V / rated value	1.5 A
• at DC-1 / at 30 V / rated value	8 A
Type of contact rating / acc. to NEMA	B300
Switching capacity current / at the relay outputs / at DC / at 30 V / acc. to UL 508	1 A
Mechanical service life (switching cycles) / of the relay outputs	10 000 000
Electrical endurance (switching cycles) / of the relay outputs	100 000
Input delay time	0.05 s
Insulation voltage (U _i) / of the relay outputs / rated value	250 V
Signal voltage	
• for signal <0> / at DC / Rated value	2 V
• for signal <1> / at DC / Rated value	3.4 V
Impulse withstand voltage (U _{imp}) / of the relay outputs / rated value	4 000 V
Power frequency impulse withstand voltage / at the measurement inputs	3 000 V
Measuring procedure	TRMS
Input impedance	
• between L and L / minimum	1 MΩ
• between N and L / minimum	0.5 MΩ
Insulation voltage (U _i) / at the measurement inputs / rated value	480 V
Voltage measuring range / at the measurement inputs	
• between L and L / minimum	50 V
• between L and L / maximum	576 V
• between L and N / minimum	50 V
• between L and N / maximum	333 V

Measured variable voltage	
• between L and L / Rated value	480 V
• between N and L / Rated value	277 V
Relative measurement deviation	0.25 %
Impulse withstand voltage (Uimp) / at the measurement inputs / rated value	6 000 V
Supply voltage frequency / at the measurement inputs	
• minimum	45 Hz
• maximum	65 Hz
Number of monitored phases	3
Connectable conductor cross-section	
• minimum	0.2 mm ²
• maximum	2.5 mm ²
Connectable conductor cross-section / acc. to UL 508	
• minimum	0.75 mm ²
• maximum	2.5 mm ²
AWG number / as coded connectable conductor cross section	
• minimum	24
• maximum	12
AWG number / as coded connectable conductor cross section / acc. to UL 508	
• minimum	18
• maximum	12
Tightening torque [lbf·in] / with screw-type terminals / maximum	5 lbf·in
Tightening torque / with screw-type terminals / maximum	0.56 N·m
Type of electrical connection	Removable/plug-in

Mechanical Design

Height	144 mm
Width	144 mm
Depth	43.3 mm
Installation depth / with expansion module / maximum	73 mm
Net weight	600 g

Environmental conditions

Ambient temperature / during storage	
• minimum	-30 °C
• maximum	80 °C

Certificates

Reference code

- | | |
|--------------------------|---|
| • acc. to DIN EN 61346-2 | K |
| • acc. to DIN EN 81346-2 | K |

General Product Approval

Declaration of Conformity



[Miscellaneous](#)



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=3KC9000-8TL40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3KC9000-8TL40>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3KC9000-8TL40

CAX-Online-Generator

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

Tender specifications

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





