

PRODUCT-DETAILS

## OT1600E22 OT1600E22 SWITCH-DISCONNECTOR



General Information	
Extended Product Type	OT1600E22
Product ID	1SCA101545R1001
EAN	6417019364261
Catalog Description	OT1600E22 SWITCH-DISCONNECTOR
Long Description	4-pole, front operated, base mounted switch-diconnector, handle and shaft are not included, terminal bolt kit included
Ordering	
Minimum Order Quantity	1 piece
Customs Tariff Number	85365080
Country of Origin	Finland (FI)
Popular Downloads	
Data Sheet, Technical Information	1SCC301020C0201
Instructions and Manuals	1SCC301047M0213
Mechanical Drawings	1SCC301510F0001 1SCC301509F0001 0T1600E22.iqs

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Product Net Width	414.5 mm
Product Net Height	372 mm
Product Net Depth / Length	167 mm
Product Net Weight	21.6 kg

Reted Operational Current AC-21A (I.g.)		
AC-21A (I <sub>a</sub> )         (500 y) 1600 A (500 y) 1600 A (500 y) 1600 A (500 y) 1600 A           Rated Operational Current AC-22A (I <sub>a</sub> )         (380415 y) 1600 A (500 y) 1600 A (600 y) 1600 A (6	Technical	
AC-22A (In)         (500 V) 1600 A           Rated Operational Current         (690 V) 1250 A           AC-23A (In)         (380 415 V) 1250 A           Rated Operational Power         (690 V) 1250 A           AC-23A (In)         (400 415 V) 710 kW           Conventional Pree-air         (890 V) 1200 kW           Thermal Current (Inn)         Fully Enclosed 1600 A           Conventional Thermal Current (Inn)         12 kV           Conventional Thermal Current (Inn)         2 kV           Rated Impulse Withstand         12 kV           Voltage (Uing)         3 cc. to IEC/EN 60664-1 1000 V           Rated Operational Voltage         3 cc. to IEC/EN 60664-1 1000 V           (In)         (690 V) 92 kA           Rated Short-time         (690 V) 92 kA           Rated Short-time         (690 V) 92 kA           Rated Short-time         690 V) 92 kA           Rated Short-time         3           Power Loss         at Rated Operating Conditions per Pole 48 W           Pollution Degree         3           Hondle Type         Handle and shaft not include           Fourth Pole Type         Switched - Simultaneous Function           Switches Operating         Mechanism Between the Poles           Distance Between Phases         S		(500 V) 1600 A (690 V) 1600 A
AC-23A (le)         (500 V) 1250 A           Rated Operational Power AC-23A (le)         (400 15 V) 710 kW           AC-23A (le)         (400 15 V) 710 kW           Conventional Free-air Thermal Current (lp)         q = 40 °C 1600 A           Conventional Thermal Current (lp, le)         Fully Enclosed 1600 A           Conventional Thermal Current (lp, le)         Tully Enclosed 1600 A           Rated Insulation Voltage (U <sub>imp</sub> )         12 kV           Rated Operational Voltage         Main Circuit 1000 V           Rated Short-Circuit Making Capacity (lcm)         (690 V) 92 kA           Rated Short-Lime Withstand Current (lcm)         for 1 s 50 kA           Power Loss         at Rated Operating Conditions per Pole 48 W           Power Loss         at Rated Operating Conditions per Pole 48 W           Power Loss         at Rated Operating Conditions per Pole 48 W           Power Loss         at Rated Operating Conditions per Pole 48 W           Power Loss         at Rated Operating Conditions per Pole 48 W           Power Loss         at Rated Operating Conditions per Pole 48 W           Power Loss         at Rated Operating Conditions per Pole 48 W           Power Loss         at Rated Operating Conditions per Pole 48 W           Power Loss         at Rated Operating Conditions per Pole 48 W           Power Loss		(500 V) 1600 A
AC-23A (P <sub>e</sub> )         (500 Y) 900 kW           Conventional Free-air Thermal Current (I <sub>th</sub> )         q = 40 °C 1600 A           Thermal Current (I <sub>the</sub> )         Fully Enclosed 1600 A           Conventional Thermal Current (I <sub>the</sub> )         12 kV           Conventional Thermal Current (I <sub>the</sub> )         12 kV           Rated Impulse Withstand Voltage (I <sub>timp</sub> )         acc. to IEC/EN 60664-1 1000 V           Rated Operational Voltage         Main Circuit 1000 V           Rated Operational Voltage         Main Circuit 1000 V           Rated Short-Lime Withstand Current (I <sub>tim</sub> )         (690 V) 92 kA           Rated Short-Lime Withstand Current (I <sub>tim</sub> )         67 1 s 50 kA           Power Loss         at Rated Operating Conditions per Pole 48 W           Pollution Degree         3           Handle Type         Handle and shaft not included fourth Pole Position         Right Side Eouth Pole Type           Switches Operating Mechanism Between the Poles Mechanism         Switches Simultaneous Function Switches Operating Mechanism Between the Poles Mechanism         Top In - Bottom Out Bottom In - Top Out Bottom I		(500 V) 1250 A
Thermal Current (I <sub>th</sub> )         Fully Enclosed 1600 A Current (I <sub>the</sub> )           Rated Impulse Withstand Voltage (U <sub>imp</sub> )         12 kV           Rated Insulation Voltage (U <sub>imp</sub> )         acc. to IEC/EN 60664-1 1000 V (U <sub>i</sub> )           Rated Operational Voltage         Main Circuit 1000 V           Rated Short-Circuit (See Vi)         (690 V) 92 kA           Making Capacity (I <sub>cm</sub> )         for 1 s 50 kA           Rated Short-Circuit (See Vi)         6090 V) 92 kA           Rated Short-Uime         for 1 s 50 kA           Withstand Current (I <sub>cw</sub> )         for 1 s 50 kA           Power Loss         at Rated Operating Conditions per Pole 48 W           Pollution Degree         3           Handle Type         Handle and shaft not included           Fourth Pole Position         Right Side           Fourth Pole Type         Switched - Simultaneous Function           Switches Operating         Mechanism Between the Poles           Michael Sperating         Mechanism Between the Poles           Mechanism Device of Science Between Phases         Standard           Position of Line Terminals         Top In - Bottom Out           Operating Mode         Front operated           Standards         IEC 60947-3           Special Functions         No           Mounting Type		(500 V) 900 kW
Current (I <sub>the</sub> )       12 kV         Rated Inpulse Withstand Voltage (U <sub>Imp</sub> )       acc. to IEC/EN 60664-1 1000 V (U <sub>I</sub> )         Rated Insulation Voltage       acc. to IEC/EN 60664-1 1000 V (U <sub>I</sub> )         Rated Operational Voltage       Main Circuit 1000 V (699 V) 92 kA Making Capacity (I <sub>cm</sub> )         Rated Short-Circuit Making Capacity (I <sub>cm</sub> )       for 1 s 50 kA Withstand Current (I <sub>cw</sub> )         Power Loss       at Rated Operating Conditions per Pole 48 W Pollution Degree         Poultion Degree       3         Handle Type       Handle and shaft not included Tourth Pole Position         Fourth Pole Position       Right Side         Fourth Pole Type       Switched - Simultaneous Function         Switches Operating Mechanism Between the Poles Mechanism       22 (Between the Poles)         Distance Between Phases       Standard         Position of Line Terminals       Top In - Bottom Out Bottom Out Bottom In - Top Out         Operating Mode       Front operated         Standards       IEC 60947-3         Special Functions       No         Mounting Type       Base mounting         Nomounting Type       Base mounting         Nomounting Type       Base mounting         Nomounting Type       Base mounting         Capting Force of Protection       Front IP00 <th< td=""><td></td><td>q = 40 °C 1600 A</td></th<>		q = 40 °C 1600 A
Voltage (Ü <sub>imp</sub> )       Rated Insulation Voltage (U <sub>1</sub> )       acc. to IEC/EN 60664-1 1000 V (U <sub>1</sub> )         Rated Operational Voltage       Main Circuit 1000 V (690 V) 92 kA (690 V) 92 kA (690 V) 92 kA Making Capacity (I <sub>cm</sub> )       for 1 s 50 kA (690 V) 92 kA Making Capacity (I <sub>cm</sub> )         Rated Short-time (I <sub>cw</sub> )       for 1 s 50 kA Withstand Current (I <sub>cw</sub> )         Power Loss       at Rated Operating Conditions per Pole 48 W Very Pollution Degree         A Handle Type       Handle and shaft not included Fourth Pole Position         Fourth Pole Position       Right Side         Fourth Pole Type       Switched - Simultaneous Function         Switches Operating Mechanism Between the Poles Mechanism       22 (Between the Poles)         Distance Between Phases       Standard         Position of Line Terminals       Top In - Bottom Out Bottom In - Top Out Bottom In		Fully Enclosed 1600 A
(U <sub>1</sub> )         Rated Operational Voltage         Main Circuit 1000 V           Rated Short-Circuit         (690 V) 92 kA           Rated Short-time         for 1 s 50 kA           Withstand Current (I <sub>cw</sub> )         for 1 s 50 kA           Power Loss         at Rated Operating Conditions per Pole 48 W           Pollution Degree         3           Handle Type         Handle and shaft not included           Fourth Pole Position         Right Side           Fourth Pole Type         Switched - Simultaneous Function           Switches Operating         Mechanism Between the Poles Mechanism           Mechanism         22 (Between the Poles Destion of Line Terminals           Distance Between Phases         Standard           Position of Line Terminals         Top In - Bottom Out Bottom In - Top Out Depracting Mode           Standards         Top In - Bottom Out Bottom In - Top Out Depracting Mode         Front operated           Standards         IEC 60947-3           Special Functions         No           Mounting Type         Base mounting           Number of Poles         Front IPO           Terminal Type         Lug terminal           Terminal Type         Lug terminal           Tightening Torque         acc. IEC 60947-1 50.75 Nm		12 kV
Rated Short-Circuit Making Capacity (I <sub>cm</sub> )       (690 V) 92 kA         Rated Short-time Withstand Current (I <sub>cm</sub> )       for 1 s 50 kA         Power Loss       at Rated Operating Conditions per Pole 48 W         Pollution Degree       3         Handle Type       Handle and shaft not included         Fourth Pole Position       Right Side         Fourth Pole Type       Switched - Simultaneous Function         Switches Operating Mechanism Between the Poles Mechanism       Mechanism Between the Poles 22 (Between the Poles)         Distance Between Phases       Standard         Position of Line Terminals       Top In - Bottom Out Bottom Out Bottom Out Bottom Out Bottom In - Top Out Soltom In - Top Out Solto		acc. to IEC/EN 60664-1 1000 V
Making Capacity (I <sub>cm</sub> )         for 1 s 50 kA           Rated Short-time (I <sub>cw</sub> )         for 1 s 50 kA           Power Loss         at Rated Operating Conditions per Pole 48 W           Pollution Degree         3           Handle Type         Handle and shaft not included           Fourth Pole Position         Right Side           Fourth Pole Type         Switched - Simultaneous Function           Switches Operating Mechanism         Mechanism Between the Poles of 22 (Between the Poles)           Distance Between Phases         Standard           Position of Line Terminals         Top In - Bottom Out Bottom In - Top Out           Operating Mode         Front operated           Standards         IEC 60947-3           Special Functions         No           Mounting Type         Base mounting           Number of Poles         4           Degree of Protection         Front IPO           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 50.75 N·m           Mechanical Durability         6000	Rated Operational Voltage	Main Circuit 1000 V
Withstand Current (I <sub>cw</sub> )         Power Loss       at Rated Operating Conditions per Pole 48 W         Pollution Degree       3         Handle Type       Handle and shaft not included         Fourth Pole Position       Right Side         Fourth Pole Type       Switched - Simultaneous Function         Switches Operating Mechanism Between the Poles Mechanism       Mechanism Between the Poles Poles         Distance Between Phases       Standard         Position of Line Terminals       Top In - Bottom Out Bottom In - Top Out Dut Dut Dut Dut Dut Dut Dut Dut Dut D		(690 V) 92 kA
Pollution Degree         3           Handle Type         Handle and shaft not included           Fourth Pole Position         Right Side           Fourth Pole Type         Switched - Simultaneous Function           Switches Operating Mechanism         Mechanism Between the Poles 22 (Between the Poles)           Distance Between Phases         Standard           Position of Line Terminals         Top In - Bottom Out Bottom In - Top Out Dut Bottom In - Top Out           Operating Mode         Front operated           Standards         IEC 60947-3           Special Functions         No           Mounting Type         Base mounting           Number of Poles         4           Degree of Protection         Front IP00           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N·m           Mechanical Durability         6000		for 1 s 50 kA
Handle Type Handle and shaft not included Fourth Pole Position Right Side Fourth Pole Type Switched - Simultaneous Function Switches Operating Mechanism Between the Poles Mechanism Top In - Bottom Out Bottom of Line Terminals Top In - Bottom Out Bottom In - Top Out Mechanism Mode Front operated Standards IEC 60947-3 Special Functions No Mounting Type Base mounting Number of Poles 4 Degree of Protection Front IPO0 Terminal Type Lug terminals Tightening Torque acc. IEC 60947-1 5075 N·m Mechanical Durability 6000	Power Loss	at Rated Operating Conditions per Pole 48 W
Fourth Pole Position Right Side Fourth Pole Type Switched - Simultaneous Function Switches Operating Mechanism Between the Poles Mechanism Setween the Poles Mechanism Setween the Poles Mechanism Setween Phases Standard Position of Line Terminals Top In - Bottom Out Bottom In - Top Out Operating Mode Front operated Standards IEC 60947-3 Special Functions No Mounting Type Base mounting Number of Poles 4 Degree of Protection Front IP00 Terminal Type Lug terminals Tightening Torque acc. IEC 60947-1 5075 N·m Mechanical Durability 6600	Pollution Degree	3
Fourth Pole Type Switched - Simultaneous Function Switches Operating Mechanism Between the Poles Mechanism  Distance Between Phases Standard Position of Line Terminals  Top In - Bottom Out Bottom In - Top Out Operating Mode Front operated Standards Special Functions  Mounting Type Base mounting Number of Poles Degree of Protection Front IP00 Terminal Type Lug terminals Tightening Torque Mechanical Durability  Switched - Simultaneous Function Mechanical Durability  Mechanical Switched - Simultaneous Function Switched - Simultaneous Function Switched - Simultaneous Function Standard Poles  Standard  A Between Phases Standard  Standard  Front operated Standards  BEC 60947-3  No  Base mounting A B	Handle Type	Handle and shaft not included
Switches Operating MechanismMechanism Between the Poles 22 (Between the Poles)Distance Between PhasesStandardPosition of Line TerminalsTop In - Bottom Out Bottom In - Top OutOperating ModeFront operatedStandardsIEC 60947-3Special FunctionsNoMounting TypeBase mountingNumber of Poles4Degree of ProtectionFront IP00Terminal TypeLug terminalsTightening Torqueacc. IEC 60947-1 5075 N·mMechanical Durability6000	Fourth Pole Position	Right Side
Mechanism         22 (Between the Poles)           Distance Between Phases         Standard           Position of Line Terminals         Top In - Bottom Out Bottom In - Top Out Bottom In - Top Out           Operating Mode         Front operated           Standards         IEC 60947-3           Special Functions         No           Mounting Type         Base mounting           Number of Poles         4           Degree of Protection         Front IP00           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N·m           Mechanical Durability         6000	Fourth Pole Type	Switched - Simultaneous Function
Position of Line Terminals         Top In - Bottom Out Bottom In - Top Out Detaing Mode           Operating Mode         Front operated           Standards         IEC 60947-3           Special Functions         No           Mounting Type         Base mounting           Number of Poles         4           Degree of Protection         Front IP00           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N·m           Mechanical Durability         6000		
Operating Mode         Front operated           Standards         IEC 60947-3           Special Functions         No           Mounting Type         Base mounting           Number of Poles         4           Degree of Protection         Front IP00           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N·m           Mechanical Durability         6000	Distance Between Phases	Standard
Standards         IEC 60947-3           Special Functions         No           Mounting Type         Base mounting           Number of Poles         4           Degree of Protection         Front IP00           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N·m           Mechanical Durability         6000	Position of Line Terminals	· ·
Special Functions         No           Mounting Type         Base mounting           Number of Poles         4           Degree of Protection         Front IP00           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N·m           Mechanical Durability         6000	Operating Mode	Front operated
Mounting Type         Base mounting           Number of Poles         4           Degree of Protection         Front IP00           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N·m           Mechanical Durability         6000	Standards	IEC 60947-3
Number of Poles         4           Degree of Protection         Front IP00           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N⋅m           Mechanical Durability         6000	Special Functions	No
Degree of Protection         Front IP00           Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N·m           Mechanical Durability         6000	Mounting Type	Base mounting
Terminal Type         Lug terminals           Tightening Torque         acc. IEC 60947-1 5075 N·m           Mechanical Durability         6000	Number of Poles	4
Tightening Torque acc. IEC 60947-1 5075 N·m Mechanical Durability 6000	Degree of Protection	Front IP00
Mechanical Durability 6000	Terminal Type	Lug terminals
•	Tightening Torque	acc. IEC 60947-1 5075 N·m
Lock Type No	Mechanical Durability	6000
	Lock Type	No

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RoHS Status	Following EU Directive 2011/65/EU
Environmental Information	1SCC301149D0202

Certificates and Declarations (Document Number)	
Declaration of Conformity - CE	1SCC301155D2704
DNV GL Certificate	1SCC301184D0203
Environmental Information	1SCC301149D0202
Instructions and Manuals	1SCC301047M0213
RoHS Information	1SCC301149D0203

Container Information	
Package Level 1 Units	box 1 piece
Package Level 1 Width	400 mm
Package Level 1 Depth / Length	435 mm
Package Level 1 Height	170 mm
Package Level 1 Gross Weight	22.6 kg
Package Level 1 EAN	6417019364261

Classifications	
Object Classification Code	Q
ETIM 5	EC000216 - Switch disconnector
ETIM 6	EC000216 - Switch disconnector
ETIM 7	EC000216 - Switch disconnector
UNSPSC	39122233
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
E-Number (Finland)	3661776

## Categories

Low Voltage Products and Systems  $\rightarrow$  Switches  $\rightarrow$  Switch Disconnectors

