



PRODUCT-DETAILS

OT80F8

OT80F8 SWITCH-DISCONNECTOR



General Information	
Extended Product Type	OT80F8
Product ID	1SCA105429R1001
EAN	6417019393643
Catalog Description	OT80F8 SWITCH-DISCONNECTOR
Long Description	8-pole, front operated, base mounted, DIN-rail mountable switch-diconnector / non-fusible disconnect switch with protected clamp terminals, handle and shaft are not included

ABB EcoSolutions	
Environmental Information	1SCC301263D0201
Environmental Product Declaration - EPD	1SCC301279D0201

Material Compliance	
Conflict Minerals Reporting Template (CMRT)	9AKK108467A5658
REACH Declaration	1SCC011021D0201
RoHS Information	1SCC011020D0201

RoHS Status	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
Toxic Substances Control Act - TSCA	1SCC011025D0201

Popular Downloads

Data Sheet, Technical Information	1SCC301020C0201
Instructions and Manuals	1SCC301066M0206
Mechanical Drawings	1SCC301460F0001 1SCC301459F0001 OT63-80F8.igs
Environmental Product Declaration - EPD	1SCC301279D0201

Environmental

Degree of Protection	Front IP20
Environmental Information	1SCC301263D0201
Pollution Degree	3

Ordering

Minimum Order Quantity	1 piece
Customs Tariff Number	85365080
Country of Origin	Finland (FI)

Dimensions

Product Net Width	140 mm
Product Net Height	91.5 mm
Product Net Depth / Length	84.5 mm
Product Net Weight	0.7 kg

Container Information

Package Level 1 Units	box 1 piece
Package Level 1 Width	111 mm
Package Level 1 Depth / Length	205 mm
Package Level 1 Height	102 mm
Package Level 1 Gross Weight	0.77 kg
Package Level 1 EAN	6417019393643

Technical

Cable Cross-Section	Cu 1.5 ... 35 mm ²
Connecting Capacity Main Circuit	Flexible with Ferrule 1x Cu 1.5..4 mm ² Solid 1x Cu 1.5..6 mm ² Flexible 1x Cu 1.5...35 mm ² Stranded 1x Cu 1.5...35 mm ²
Conventional Free-air Thermal Current (I_{th})	$\Theta = 40\text{ °C}$ 80 A
Conventional Thermal Current (I_{the})	Fully Enclosed 80 A
Degree of Protection	Front IP20

Distance Between Phases	Standard
Fourth Pole Position	Left and Right Side
Fourth Pole Type	Switched - Simultaneous Function
Handle Type	Knob Handle and shaft not included
Lock Type	No
Mechanical Durability	20000
Mounting Type	Base mounting
Number of Poles	8P
Operating Mode	Front operated
Pollution Degree	3
Position of Line Terminals	Top In - Bottom Out Bottom In - Top Out
Power Loss	at Rated Operating Conditions per Pole 4.5 W
Rated Conditional Short-Circuit Current (I_{nc})	(100 A fuse, ≤ 415 V) 50 kA (100 A fuse, 500 V) 100 kA (80 A fuse, 690 V) 50 kA
Rated Impulse Withstand Voltage (U_{imp})	8 kV
Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 750 V
Rated Operational Current AC-21A (I_e)	(380 ... 415 V) 80 A (500 V) 80 A (690 V) 80 A
Rated Operational Current AC-22A (I_e)	(380 ... 415 V) 80 A (500 V) 80 A (690 V) 80 A
Rated Operational Current AC-23A (I_e)	(380 ... 415 V) 75 A (500 V) 58 A (690 V) 20 A
Rated Operational Power AC-23A (P_e)	(220 ... 240 V) 22 kW (400 ... 415 V) 37 kW (500 V) 37 kW (690 V) 18.5 kW
Rated Operational Voltage	Main Circuit 750 V
Rated Short-Circuit Making Capacity (I_{cm})	(690 V) 2.1 kA
Rated Short-time Withstand Current Low Voltage (I_{cw})	for 1 s 1.5 kA
Recommended Screw Driver	Main Circuit Pozidriv 2
Special Functions	No
Standards	IEC 60947-3 / UL 508 / CSA C22.2 No. 14
Switches Operating Mechanism	Mechanism on Top of the Switch
Terminal Type	Screw Terminals
Tightening Torque	acc. IEC 60947-1 2 N·m
Wire Stripping Length	Main Circuit 10-12 mm

Technical UL/CSA

Maximum Operating Voltage UL/CSA	600 V
Ampere Rating	80 A
Horsepower Rating UL/CSA	(110 ... 120 V AC) Single Phase 2 Hp (240 V AC) Single Phase 10 Hp (440 ... 480 V AC) Single Phase 20 Hp (550 ... 600 V AC) Single Phase 20 Hp (220 ... 240 V AC) Three Phase 20 Hp (440 ... 480 V AC) Three Phase 40 Hp (550 ... 600 V AC) Three Phase 40 Hp
Wire Stripping Length	Main Circuit 10-12 mm
Recommended Screw Driver	Main Circuit Pozidriv 2

Tightening Torque	acc. IEC 60947-1 2 N·m
Tightening Torque	18 in·lb
UL/CSA	

Certificates and Declarations

A2L Certificate - IEC	1SCC301335D0201
ATEX Certificate	No certification needed
Declaration of Conformity - CE	1SCC301167D2704
UL Certificate	cULus certificate OT16-80
VDE Certificate	No certification needed

External Classifications and Standards

Object Classification Code	Q
ETIM 8	EC000216 - Switch disconnect
ETIM 9	EC000216 - Switch disconnect (low voltage)
UNSPSC	39122233
IDEA Granular Category Code (IGCC)	5290 >> Disconnect switch
eClass	V11.1 : 27371403
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
E-Number (Finland)	3601465
E-Number (Norway)	4363573

Categories

Low Voltage Products and Systems → Switches → Switch Disconnectors

