



PRODUCT-DETAILS

# OT80F6

## OT80F6 SWITCH-DISCONNECTOR



General Information	
Extended Product Type	OT80F6
Product ID	1SCA105427R1001
EAN	6417019393629
Catalog Description	OT80F6 SWITCH-DISCONNECTOR
Long Description	6-pole, front operated, base mounted, DIN-rail mountable switch-diconnector / non-fusible diconnect 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	9AKK108467A5658

Reporting Template (CMRT)		
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	1SCC301458F0001 1SCC301457F0001 OT63-80F6.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	105 mm
Product Net Height	91.5 mm
Product Net Depth / Length	84.5 mm
Product Net Weight	0.6 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	0.65 kg
Package Level 1 EAN	6417019393629

### Technical

Cable Cross-Section	Cu 1.5 ... 35 mm <sup>2</sup>
Connecting Capacity Main Circuit	Flexible with Ferrule 1x Cu 1.5...4 mm <sup>2</sup> Solid 1x Cu 1.5...6 mm <sup>2</sup> Flexible 1x Cu 1.5...35 mm <sup>2</sup> Stranded 1x Cu 1.5...35 mm <sup>2</sup>
Conventional Free-air Thermal Current ( $I_{th}$ )	$\Theta = 40\text{ }^{\circ}\text{C}$ 80 A
Conventional Thermal Current ( $I_{the}$ )	Fully Enclosed 80 A
Degree of Protection	Front IP20
Distance Between Phases	Standard
Handle Type	Knob Handle and shaft not included
Lock Type	No
Mechanical Durability	20000
Mounting Type	Base mounting
Number of Poles	6P
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, $\leq 415\text{ V}$ ) 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 UL/CSA	18 in·lb

## 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 disconnecter
ETIM 9	EC000216 - Switch disconnecter (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)	3601464
E-Number (Norway)	4363566

## Categories

Low Voltage Products and Systems → Switches → Switch Disconnectors

