

**Switch-disconnector, 3p, 1250A, fixed**

**Part no.** IN20N3-12F  
**Catalog No.** 123456

## Delivery program

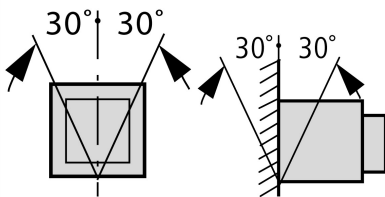
Product range			Air circuit-breakers/switch-disconnectors
Product range			Open switch-disconnectors
Current Range			4000 to 6300 A
Protective function			without protection
Installation type			Fixed
Construction size			IN20
Standard/Approval			IEC
Number of poles			3 pole
Degree of Protection			IP20, IP55 with protective cover
Rated current = rated uninterrupted current	$I_n = I_u$	A	1250
up to 440 V 50/60 Hz	$I_{cm}$	kA	69
t = 1 s	$I_{cw}$	kA	65
t = 3 s	$I_{cw}$	kA	40

**Notes**

Including rear connection main terminals and secondary terminal blocks according to ordered breaker options.

## Technical data

### General

Standards			IEC/EN 60947
Ambient temperature			
Storage	$\theta$	°C	-40 - +70
Operating (open)		°C	-25 - +70
Mounting position			
Utilization category			B
Degree of Protection			IP20, IP55 with protective cover
Direction of incoming supply			as required

### Main conducting paths

Rated current = rated uninterrupted current	$I_n = I_u$	A	1250
Rated uninterrupted current at 50 °C	$I_u$	A	1250
Rated uninterrupted current at 60 °C	$I_u$	A	1100
Rated uninterrupted current at 70 °C	$I_u$	A	1000
Rated impulse withstand voltage	$U_{imp}$	V AC	8000
Rated operational voltage	$U_e$	V AC	690
Use in IT electrical power networks up to U = 440 V	$I_{IT}$	kA	21
Overvoltage category/pollution degree			III/3
Rated insulation voltage	$U_i$	V	1000

### Switching capacity

Rated short-circuit making capacity	$I_{cm}$		
up to 440 V 50/60 Hz	$I_{cm}$	kA	69
up to 690 V 50/60 Hz	$I_{cm}$	kA	143
Rated short-time withstand current 50/60 Hz			
t = 1 s	$I_{cw}$	kA	65

t = 3 s	I <sub>cw</sub>	kA	40
Operating times			
Closing delay via spring release		ms	35
Break times		ms	40
Total opening delay via shunt release		ms	30
Total opening delay via undervoltage release		ms	35/70
Maximum operating frequency		Ops./h	
Maximum operating frequency	Operations/h		60
Heat dissipation at rated current I <sub>n</sub>			
Fixed mounting		W	110
Withdrawable units (switch with cassette)		W	220

## Weight

Fixed mounting			
3-pole		kg	43
4-pole		kg	54
Withdrawable			
3-pole		kg	48
4-pole		kg	62
Cassette			
3 pole		kg	34
4 pole		kg	38

## Terminal capacities

Copper bar			
Fixed mounting			
Black		mm	2 x 5 x 80
Withdrawable units			
Black		mm	2 x 5 x 80
			Permissible continuous current for circuit-breakers operating in switchboards at various internal ambient temperatures. The switchboard's internal ambient temperature should be estimated using the calculation methods of IEC regulation.

## Design verification as per IEC/EN 61439

Technical data for design verification			
Operating ambient temperature max.		°C	-25
Operating ambient temperature max.		°C	70

## Dimensions

