Switch-disconnector, 3p, 1600A, fixed

Part no. IN20N3-16F Catalog No. 123457

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



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	$I_n = I_u$	Α	1600
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			

Technical data

General

General			
Standards			IEC/EN 60947
Ambient temperature			
Storage	9	°C	-40 - +70
Operating (open)		°C	-25 - +70
Mounting position			30° 30° 30° 30°
Utilization category			В
Degree of Protection			IP20, IP55 with protective cover
Direction of incoming supply			as required
Main conducting paths			
Rated current = rated uninterrupted current	$I_n = I_u$	Α	1600
Rated uninterrupted current at 50 °C	I _u	Α	1600
Rated uninterrupted current at 60 °C	I _u	Α	1500
Rated uninterrupted current at 70 °C	I _u	Α	1350
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 $\rm V$	I _{IT}	kA	23
Overvoltage category/pollution degree			III/3
Rated insulation voltage	Ui	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 _{cw}	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 _n			
Fixed mounting		W	180
Withdrawable units (switch with cassette)		W	360
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 100
Withdrawable units			
Black		mm	2 x 5 x 100
			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

