## Switch-disconnector, 3p, 6300A, fixed

Powering Business Worldwide\*

Part no. IN63N3-63F Catalog No. 124318

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			IN63
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	6300
up to 440 V 50/60 Hz	I <sub>cm</sub>	kA	217
t = 1 s	I <sub>cw</sub>	kA	85

kA

 $I_{cw}$ 

65

## t = 3 s **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	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	6300	
Rated uninterrupted current at 50 °C	I <sub>u</sub>	Α	6200	
Rated uninterrupted current at 60 °C	Iu	Α	5600	
Rated uninterrupted current at 70 °C	I <sub>u</sub>	Α	5100	
Rated impulse withstand voltage	U <sub>imp</sub>	V AC	8000	
Rated operational voltage	U <sub>e</sub>	V AC	690	
Use in IT electrical power networks up to U = 440 $\rm V$	I <sub>IT</sub>	kA	88888888	
Overvoltage category/pollution degree			III/3	
Rated insulation voltage	Ui	V	1000	
Switching capacity				
Rated short-circuit making capacity	I <sub>cm</sub>			
up to 440 V 50/60 Hz	I <sub>cm</sub>	kA	217	
up to 690 V 50/60 Hz	I <sub>cm</sub>	kA	187	
Operating times				
Closing delay via spring release		ms	35	

Break times Total opening delay via shunt release Total opening delay via undervoltage release Maximum operating frequency Maximum operating frequency Meating frequency Meating frequency Meating frequency Moramable units (switch with cassette)  Weight Fixed mounting 3-pole 4-pole 4-pole 4-pole 3-pole 4-pole 3-pole 4-pole 4-pole 4-pole 4-pole 4-pole 4-pole 4-pole 5-pole 4-pole 4-pole 5-pole 4-pole 4-pole 5-pole 4-pole 5-pole 4-pole 5-pole 5-pole 5-pole 5-pole 5-pole 6-pole 6				
Total opening delay via undervoltage release  Maximum operating frequency  Maximum operating frequency  Heat dissipation at rated current In  Fixed mounting  Withdrawable units (switch with cassette)  Weight  Fixed mounting  3-pole  4-pole  4-pole  3-pole  4-pole  3-pole  4-pole  4-pole  3-pole  4-pole  4-pole  5-pole  4-pole  4-pole  5-pole  4-pole  4-pole  5-pole  4-pole  5-pole  4-pole  5-pole  4-pole  5-pole  4-pole  5-pole  4-pole  5-pole  5-pole  4-pole  6-pole  7-pole  7-pole  8-pole  8-pole  9-pole  8-pole  1-pole  8-pole  8-pole  8-pole  1-pole  8-pole  8-pole  8-pole  1-pole  8-pole  8-pol	Break times		ms	40
Maximum operating frequency         Ops./h           Maximum operating frequency         Operations/h         60           Heat dissipation at rated current In         W         620           Fixed mounting         W         1550           Weight           Fixed mounting         kg         125           4-pole         kg         163           Withdrawable         kg         157           4-pole         kg         200           Cassette         kg         103           4 pole         kg         103           4 pole         kg         103           Terminal capacities         Fixed mounting         mm         6 x 10 x 100	Total opening delay via shunt release		ms	40
Maximum operating frequency Heat dissipation at rated current In Fixed mounting Withdrawable units (switch with cassette) Weight  Fixed mounting 3-pole 4-pole 4-pole 4-pole 4-pole 4-pole 4-pole 4-pole 4-pole 4-pole 5-pole 4-pole 4-pole 4-pole 5-pole 4-pole 4-pole 5-pole 4-pole 6-pole 6-pole 7-pole 7-po	Total opening delay via undervoltage release		ms	35/70
Heat dissipation at rated current In         W         620           Withdrawable units (switch with cassette)         W         1550           Weight           Fixed mounting         kg         125           3-pole         kg         163           Withdrawable         kg         157           4-pole         kg         200           Cassette         kg         103           4 pole         kg         103           4 pole         kg         103           Terminal capacities           Copper bar         Fixed mounting         mm         6 x 10 x 100	Maximum operating frequency		Ops./h	
Fixed mounting         W         620           Withdrawable units (switch with cassette)         W         1550           Weight         Fixed mounting         Image: Control of the control of	Maximum operating frequency	Operations/h		60
Withdrawable units (switch with cassette)       W       1550         Weight         Fixed mounting       Fixed mounting       Image: Control of the control o	Heat dissipation at rated current $I_n$			
Weight         Fixed mounting       kg       125         4-pole       kg       163         Withdrawable       Vithdrawable       Vithdrawable         3-pole       kg       157         4-pole       kg       200         Cassette       Vity       Vity         3 pole       kg       103         4 pole       kg       103         4 pole       kg       103         Terminal capacities         Copper bar       Fixed mounting         Black       mm       6 x 10 x 100	Fixed mounting		W	620
Fixed mounting       kg       125         4-pole       kg       163         Withdrawable       ***       ***         3-pole       kg       157         4-pole       kg       200         Cassette       ***       ***         3 pole       kg       103         4 pole       kg       103         Terminal capacities       ***       ***         Copper bar       ***       Fixed mounting         Black       mm       6 x 10 x 100	Withdrawable units (switch with cassette)		W	1550
3-pole	Weight			
4-pole	Fixed mounting			
Withdrawable       kg       157         4-pole       kg       200         Cassette       V       V         3 pole       kg       103         4 pole       kg       103         Terminal capacities         Copper bar       Fixed mounting         Black       mm       6 x 10 x 100	3-pole		kg	125
3-pole kg 157 4-pole kg 200  Cassette	4-pole		kg	163
4-pole       kg       200         Cassette       """         3 pole       kg       103         4 pole       kg       103         Terminal capacities         Copper bar       """         Fixed mounting       """         Black       mm       6 x 10 x 100	Withdrawable			
Cassette       kg       103         4 pole       kg       103         Terminal capacities         Copper bar       Fixed mounting         Black       mm       6 x 10 x 100	3-pole		kg	157
3 pole       kg       103         4 pole       kg       103         Terminal capacities         Copper bar       Fixed mounting         Black       mm       6 x 10 x 100	4-pole		kg	200
4 pole         kg         103           Terminal capacities           Copper bar         Fixed mounting           Black         mm         6 x 10 x 100	Cassette			
Terminal capacities Copper bar Fixed mounting Black mm 6 x 10 x 100	3 pole		kg	103
Copper bar  Fixed mounting  Black  mm 6 x 10 x 100			kg	103
Fixed mounting  Black  mm 6 x 10 x 100	Terminal capacities			
Black mm 6 x 10 x 100	Copper bar			
	Fixed mounting			
Withdrawable units	Black		mm	6 x 10 x 100
	Withdrawable units			

# **Design verification as per IEC/EN 61439**

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

mm

6 x 10 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.

## **Dimensions**

Black

