DATASHEET - IN63N4-40F

Switch-disconnector, 4p, 4000A, fixed

Part no.	IN63N4-40F
Catalog No.	124371



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			4 pole
Degree of Protection			IP20, IP55 with protective cover
Rated current = rated uninterrupted current	$I_n = I_u$	А	4000
up to 440 V 50/60 Hz	I _{cm}	kA	138
t = 1 s	I _{cw}	kA	85
t = 3 s	I _{cw}	kA	65
Notes			
Including rear connection main terminals and secondary terminal blocks according to ordered breaker options.			

Technical data

Anheint temperature Image: Construct temperature Constemperature Construct temperature	General			
Storage 6 -C -0-70 Operating (open) FC -25 - 70 Mounding position FC -25 - 70 Mounding position FC -20 - 70 - 70 - 70 - 70 - 70 - 70 - 70 -	Standards			IEC/EN 60947
Operating (open) Case and a second seco	Ambient temperature			
Mouning position Image: Constraint of the second of the seco	Storage	θ	°C	-40 - +70
للائندةش مناوية عن المحكمة المحكم المحكمة المحكمة	Operating (open)		°C	-25 - +70
Degree of Protection P20, P55 with protective cover Direction of incoming supply as required Main conducting paths se required Rated current = rated uninterrupted current In = lu A Bated uninterrupted current at 50 °C lu 4000 Rated uninterrupted current at 60 °C lu A Rated uninterrupted current at 70 °C lu A Rated inpulse withstand voltage lu A Rated operational voltage Ump VAC Rated operational voltage In = lu KA Overvoltage category/pollution degree In KA Rated short-circuit making capacity In In up to 440 V 50/60 Hz In In up to 590 V 50/60 Hz In Sa	Mounting position			
Direction of incoming supply is required Main conducting paths In = Iu A00 Rated current = rated uninterrupted current Iu Au 4000 Rated uninterrupted current at 60 °C Iu Au 4000 Rated uninterrupted current at 70 °C Iu Au 4000 Rated uninterrupted current at 70 °C Iu Au 4000 Rated uninterrupted current at 70 °C Iu Au 4000 Rated inpulse withstand voltage Iu Au 4000 Rated operational voltage Iu Au 4000 Use in IT electrical power networks up to U = 440 V Iu VAC 5000 Vervoltage category/pollution degree Iu KA 5000 Rated insulation voltage Iu VaC 5000 Vervoltage category/pollution degree Iu 1000 Rated short-circuit making capacity Iu VaC 5000 Up to 440 V 50/60 Hz Iu Iu 1000 up to 5600 V 50/60 Hz Iu Iu 1000 up to 5600 V 50/60 Hz Iu Iu 1000	Utilization category			В
Main conducting paths In = Iu Au 400 Rated current = rated uninterrupted current at 50 °C Iu Au 400 Rated uninterrupted current at 60 °C Iu Au 400 Rated uninterrupted current at 70 °C Iu Au 400 Rated ininterrupted current at 70 °C Iu Au 400 Rated ininterrupted current at 70 °C Iu Au 400 Rated ininterrupted current at 70 °C Iu Au 400 Rated ininterrupted current at 70 °C Iu Au 400 Rated ininterrupted current at 70 °C Iu Au 400 Rated ininterrupted current at 70 °C Iu Au 500 Rated ininterrupted current at 70 °C Iu 500 500 Rated ininterrupted current at 70 °C Iu 500 500 Use in IT electrical power networks up to U = 440 V Iu 600 500 Overvoltage category/pollution degree Iu Iu 1000 Switching capacity Iu 600 500 500 Iu to 440 V 50/60 Hz Iu Iu 500 500 <td>Degree of Protection</td> <td></td> <td></td> <td>IP20, IP55 with protective cover</td>	Degree of Protection			IP20, IP55 with protective cover
Rated current = rated uninterrupted current ta 50 °C In = Iu Au 400 Rated uninterrupted current at 50 °C Iu Au 400 Rated uninterrupted current at 60 °C Iu Au 400 Rated uninterrupted current at 70 °C Iu Au 400 Rated inpulse withstand voltage Ump VAC 800 Rated operational voltage Ump VAC 90 Rated operational voltage In KA 8888888 Overvoltage category/pollution degree In KA 8888888 Stated short-circuit making capacity Iu Vac 100 Stated short-circuit making capacity Icm KA 132 Iu to 440 V 50/60 Hz Icm KA 132 Iu to 440 V 50/60 Hz Icm KA 132 Iu to 440 V 50/60 Hz Icm KA 132 Iu to 440 V 50/60 Hz Icm KA 132 Iu to 440 V 50/60 Hz Icm KA 132 Iu to 440 V 50/60 Hz Icm KA 132 Iu to 440 V 50/60 Hz Icm KA 132	Direction of incoming supply			as required
Rated uninterrupted current at 50 °C Iu A 400 Rated uninterrupted current at 60 °C Iu A 400 Rated uninterrupted current at 70 °C Iu A 400 Rated inpulse withstand voltage Iump VAC 800 Rated operational voltage Ump VAC 800 Use in IT electrical power networks up to U = 440 V Iu VAC 8888888 Overvoltage category/pollution degree Iu KA 8888888 Overvoltage category/pollution degree Ui VAC 800 Switching capacity Ui VAC 800 Switching capacity Iu VAC 800 up to 440 V 50/60 Hz Ui VI 100 up to 650 V 50/60 Hz Icm KA 13 up to 650 V 50/60 Hz Icm KA 13				
Rated uninterrupted current at 60 °C Iu A 4000 Rated uninterrupted current at 70 °C Iu A 4000 Rated inpulse withstand voltage Ump VAC 8000 Rated operational voltage Ue VAC 600 Use in IT electrical power networks up to U = 440 V IT KA 8888888 Overvoltage category/pollution degree II KA 8888888 Overvoltage category/pollution degree Ui V 100 Rated short-circuit making capacity Ir KA 100 up to 440 V 50/60 Hz Ir Ir V 100 up to 690 V 50/60 Hz Ir Ir V 100 up to 690 V 50/60 Hz Ir Ir V 100 up to 690 V 50/60 Hz Ir Ir V 100 up to 690 V 50/60 Hz Ir Ir Ir Ir up to 690 V 50/60 Hz Ir Ir Ir Ir up to 690 V 50/60 Hz Ir Ir Ir Ir up to 690 V 50/60 Hz Ir Ir Ir Ir	Rated current = rated uninterrupted current	$I_n = I_u$	А	4000
Rated uninterrupted current at 70 °C Iu A Rated inpulse withstand voltage Uinpo V AC 800 Rated operational voltage Ue VAC 60 Use in IT electrical power networks up to U = 440 V IT KA 8888888 Overvoltage category/pollution degree IT KA 8888888 Rated insulation voltage Ue Vac 100 Rated short-circuit making capacity Icm KA 134 up to 690 V 50/60 Hz Icm KA 184 up to 690 V 50/60 Hz Icm KA 184	Rated uninterrupted current at 50 °C	I _u	А	4000
Rated impulse withstand voltage Vimp V AC 800 Rated operational voltage Ue V AC 90 Use in IT electrical power networks up to U = 440 V Imp KA 8888888 Overvoltage category/pollution degree Imp KA 8888888 Overvoltage category/pollution degree Vimp Vac 8888888 Switching capacity Vimp Vac 100 Switching capacity Imp Imp Vac 100 In to 440 V 50/60 Hz Imp Imp Imp Imp Imp In to 690 V 50/60 Hz Imp Imp </td <td>Rated uninterrupted current at 60 °C</td> <td>l_u</td> <td>А</td> <td>4000</td>	Rated uninterrupted current at 60 °C	l _u	А	4000
Rated operational voltage Ue VAC 690 Use in IT electrical power networks up to U = 440 V IT KAC 88888888 Overvoltage category/pollution degree IT KAC 11/3 Rated insulation voltage Ue Vac 1000 Switching capacity Iran Kac 1000 Rated short-circuit making capacity Icm Vac 138 up to 440 V 50/60 Hz Iran Kac 138 Rated short-tircuit making capacity Icm Kac 138 up to 690 V 50/60 Hz Icm Kac 160 Rated short-tircuit making current 50/60 Hz Icm Kac 160	Rated uninterrupted current at 70 °C	lu	А	4000
Use in IT electrical power networks up to U = 440 V Image: Application degree March	Rated impulse withstand voltage	U _{imp}	V AC	8000
Overvoltage category/pollution degree Image: Constraint of the second	Rated operational voltage	U _e	V AC	690
Rated insulation voltage Ui V 1000 Switching capacity Image: Capacity Image: Capacity Image: Capacity Rated short-circuit making capacity Image: Capacity Image: Capacity Image: Capacity up to 440 V 50/60 Hz Image: Capacity Image: Capacity Image: Capacity up to 690 V 50/60 Hz Image: Capacity Image: Capacity Image: Capacity Rated short-time withstand current 50/60 Hz Image: Capacity Image: Capacity Image: Capacity	Use in IT electrical power networks up to U = 440 V	IIT	kA	88888888
Switching capacity Icm Rated short-circuit making capacity Icm up to 440 V 50/60 Hz Icm up to 690 V 50/60 Hz Icm Rated short-time withstand current 50/60 Hz Icm	Overvoltage category/pollution degree			III/3
Rated short-circuit making capacity Icm Icm up to 440 V 50/60 Hz Icm KA 138 up to 690 V 50/60 Hz Icm KA 187 Rated short-time withstand current 50/60 Hz Icm KA 187	Rated insulation voltage	Ui	V	1000
up to 440 V 50/60 Hz Image: Comparison of the second sec	Switching capacity			
up to 690 V 50/60 Hz Icm kA 187 Rated short-time withstand current 50/60 Hz	Rated short-circuit making capacity	I _{cm}		
Rated short-time withstand current 50/60 Hz	up to 440 V 50/60 Hz	I _{cm}	kA	138
	up to 690 V 50/60 Hz	I _{cm}	kA	187
t = 1 s I _{cw} kA 85	Rated short-time withstand current 50/60 Hz			
	t = 1 s	I _{cw}	kA	85

t = 3 s	I _{cw}	kA	65
Operating times			
Closing delay via spring release		ms	35
Break times		ms	40
Total opening delay via shunt release		ms	40
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	380
Withdrawable units (switch with cassette)		W	750
Weight			
Fixed mounting			
3-pole		kg	108
4-pole		kg	145
Withdrawable			
3-pole		kg	139
4-pole		kg	166
Cassette			
3 pole		kg	103
4 pole		kg	103
Terminal capacities			
Copper bar			
Fixed mounting			
Black		mm	4 x 10 x 100
Withdrawable units			
Black		mm	4 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.

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



