DATASHEET - IN40H4-40F

Switch-disconnector, 4p, 4000A, fixed

Part no. IN40H4-40F
Catalog No. 124192

Powering Business Worldwide™

Delivery program

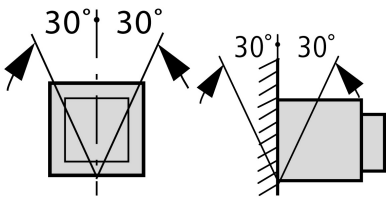
Product range			Air circuit-breakers/switch-disconnectors
Product range			Open switch-disconnectors
Current Range			4000 to 6300 A
Protective function			without protection
Installation type			Fixed
Construction size			IN40
Standard/Approval			IEC
Number of poles			4 pole
Degree of Protection			IP20, IP55 with protective cover
Rated current = rated uninterrupted current	$I_n = I_u$	A	4000
up to 440 V 50/60 Hz	I_{cm}	kA	138
t = 1 s	I_{cw}	kA	100
t = 3 s	I_{cw}	kA	65

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	ϑ	°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	4000
Rated uninterrupted current at 50 °C	I_u	A	4000
Rated uninterrupted current at 60 °C	I_u	A	4000
Rated uninterrupted current at 70 °C	I_u	A	3776
Rated impulse withstand voltage	U_{imp}	V AC	12000
Rated operational voltage	U_e	V AC	690
Use in IT electrical power networks up to U = 440 V	I_{IT}	kA	48
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	138
up to 690 V 50/60 Hz	I_{cm}	kA	220
Rated short-time withstand current 50/60 Hz			
t = 1 s	I_{cw}	kA	100

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	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	560
Withdrawable units (switch with cassette)		W	1100

Weight

Fixed mounting			
3-pole		kg	83
4-pole		kg	105
Withdrawable			
3-pole		kg	98
4-pole		kg	121
Cassette			
3 pole		kg	55
4 pole		kg	64

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