



HES160NC

Moulded Case Circuit Breaker h3+ P160 Energy 3P3D 160A 70kA CTC

Technical Features

Electric current

Rated current	160 A
---------------	-------

Architecture

Number of poles	3
Control/operation element	Toggle
Device construction type	Fixed built-in
Neutral position	Without neutral

Electric current

Rated ultimate short-circuit breaking capacity I _{cu} under 400 V AC IEC 60947-2	70 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 240 V AC IEC 60947-2	85 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 415 V AC IEC 60947-2	70 kA
Rated ultimate short-circuit breaking capacity I _{cu} under 690 V AC IEC 60947-2	6 kA
Rated service breaking capacity I _{cs} under 220 V AC according to IEC 60947-2	85 kA
Rated service breaking capacity I _{cs} under 230 V AC according to IEC 60947-2	85 kA
Rated service breaking capacity I _{cs} under 240 V AC according to IEC 60947-2	85 kA
Rated service breaking capacity I _{cs} under 380 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 400 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 415 V AC according to IEC 60947-2	50 kA
Rated service breaking capacity I _{cs} under 690 V AC according to IEC 60947-2	6 kA
Rated current 10°C according to IEC 60947	160 A
Rated current 15°C according to IEC 60947	160 A
Rated current 20°C according to IEC 60947	160 A
Rated current 25°C according to IEC 60947	160 A
Rated current 30°C according to IEC 60947	160 A
Rated current at 35°C according to IEC 60947	160 A
Rated current at 40°C according to IEC 60947	160 A
Rated current 45°C according to IEC 60947	160 A
Rated current 50°C according to IEC 60947	160 A
Rated current 55°C according to IEC 60947	160 A
Rated current at 60°C according to IEC 60947	160 A
Rated current 65°C according to IEC 60947	160 A
Rated current 70°C according to IEC 60947	150 A

Frequency

Frequency	50 - 60 Hz
-----------	------------

Voltage

Rated impulse withstand voltage U _{imp}	8000 V
Rated insulation voltage U _i	800 V
Rated operational voltage U _e	220 - 690 V

Power

Total power loss under I _N	27 W
---------------------------------------	------

Functions

Trip unit	ENERGY
-----------	--------

Endurance

Electric endurance in number of cycles	10000
Number of mechanical operations	40000

Safety

Ingress Protection (IP) class	IP4X
-------------------------------	------

Installation, mounting

Nominal tightening torque	6 - 6 Nm
Mounting-/Connection Position	Front

Connection

Cross-section flexible conductor	6 - 70 mm ²
Cross-section rigid conductor	6 - 95 mm ²

Cover, door

Interlockable	Yes
---------------	-----

Cable

Cable material	Copper
----------------	--------

Compatibility

Compatible with RDC AOB	No
Suitable for DIN Rail	No
Suitable for distribution board	Yes

Dimensions

Height	130 mm
Width	90 mm
Depth	97 mm

Connectivity

Type of connection	Screw terminal
--------------------	----------------

Settings

Adjustment range short-term delayed short-circuit release	94.5 - 1600.0 A
---	-----------------

Electrical protection

Long-time overload protection (ltd): delay (tr)	0.5 s	
	1.5 s	
	2.5 s	
	5 s	
	7.5 s	
	9 s	
	10 s	
	12 s	
	14 s	
	16 s	
	Short-time protection (std): current (lsc)	1.5
		2
		2.5
3		
3.5		
4		
4.5		
5		
5.5		
6		
6.5		
7		
7.5		
8		
8.5		
9		
9.5		
10		

Electrical protection

Short-time protection (std): delay (tsd)	50 ms
	100 ms
	200 ms
	300 ms
	400 ms

Instantaneous protection (li): dial setting coefficient	3
	3.5
	4
	4.5
	5
	5.5
	6
	6.5
	7
	7.5
	8
	8.5
	9
	9.5
	10
	10.5
	11

Sustainability

RoHS conform	Yes
--------------	-----
